siniat

Technical details and mounting guidelines for **plasterboard lining systems and shaft-walls**

etex inspiring ways of living

www.siniat.ro

DETAIL ENGINEERING FOR SHAFT-WALL AND LINING SYSTEMS

NIDA System T.CD - lining fixed with intermediate clamps

NIDA System T.CW.F - lining fastened with intermediate corner iron

NIDA System SH.CW.I

NIDA System SH.W250

NIDA System SH.UU

NIDA System N.CW.I

NIDA System N.CW.F

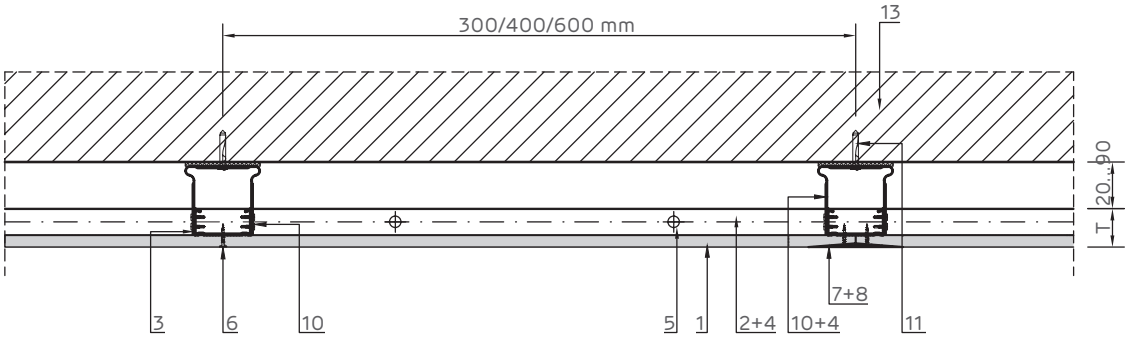
Door pre-frames

MOUNTING GUIDELINES

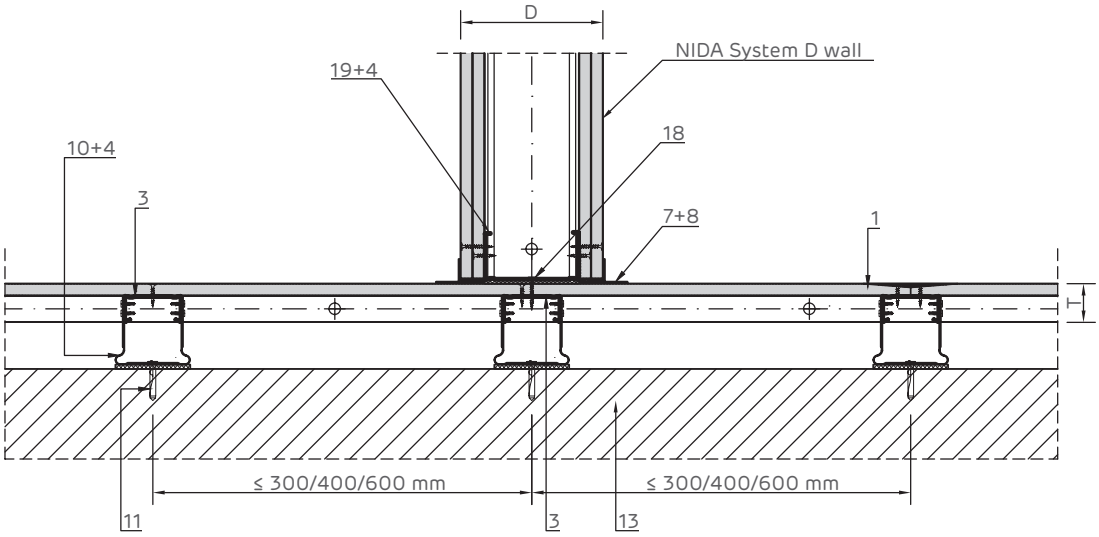
NIDA System T.CD

NIDA System T.CD single-layer lining on NIDA Metal CD/UD structure, with intermediate fixing

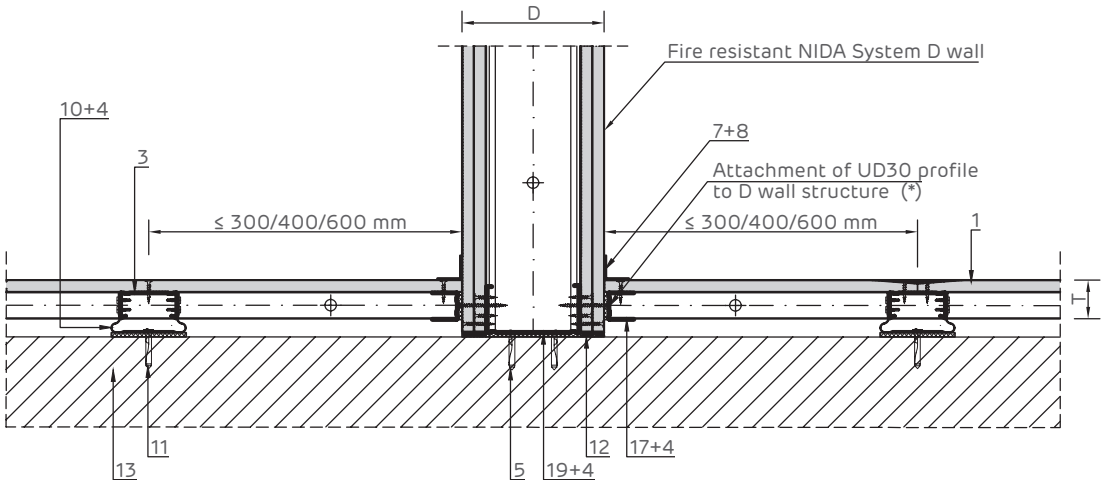
Attachment to stiff support. Horizontal section.



Crossing with D wall less resistant to fire
Horizontal section.

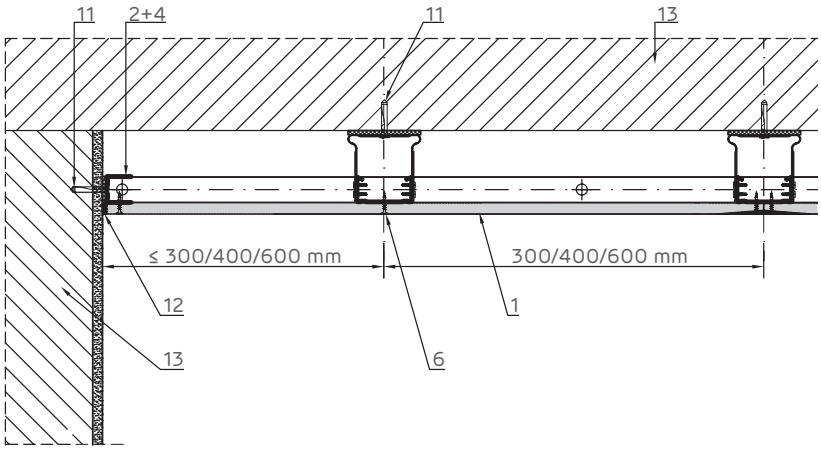


Crossing with D wall more resistant to fire
Horizontal section.

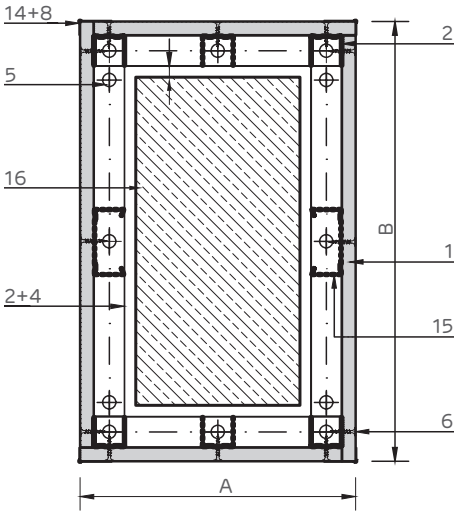


NOTE (*):
NIDA Metal UD30 end profile may be fixed to NIDA System D wall via:
- Self-tapping screws + flat washer @ 500 mm, for fixing into wall CW profile
- Molly metal dowel @ 500 mm, for fixing into wall plasterboard

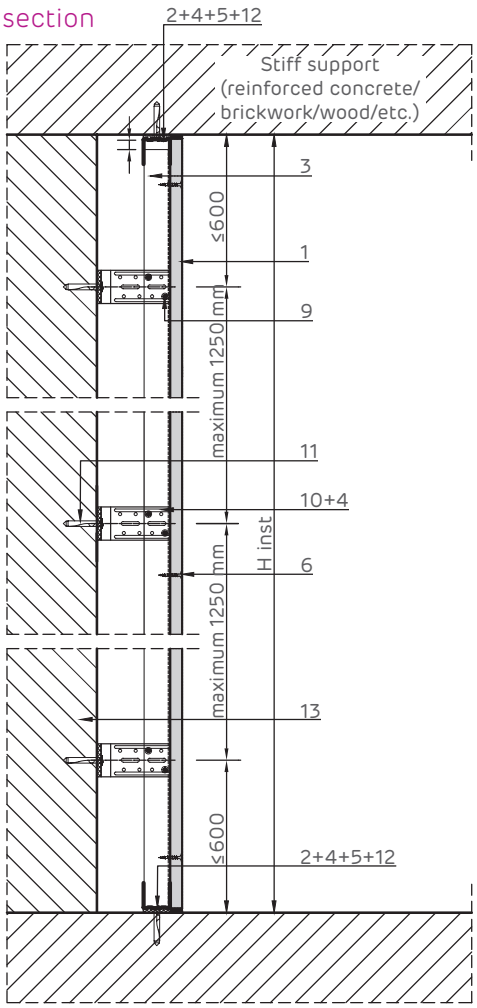
Rigid jointing with sturdy item Horizontal section.



Lining of a wooden item

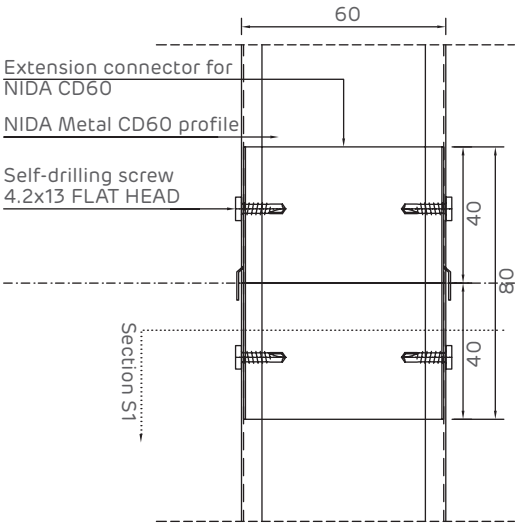


Vertical section

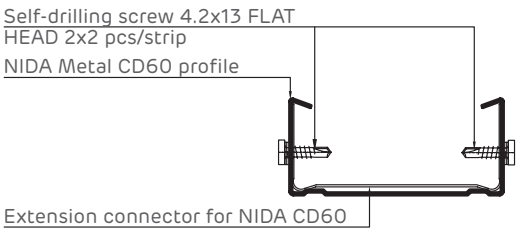


NOTE:
A minimum of 3 fasteners should be fitted along NIDA Metal UD. (*3) If the lining size (A/B) exceeds the maximum value of 600 mm , an additional upright (marked with a dotted line in the plan) should be placed.

Detail of NIDA Metal CD60 profile jointing.

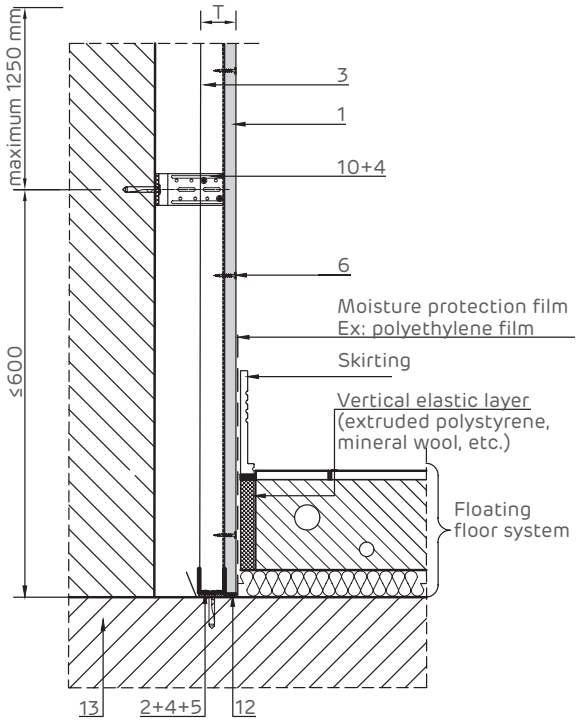


Section S1

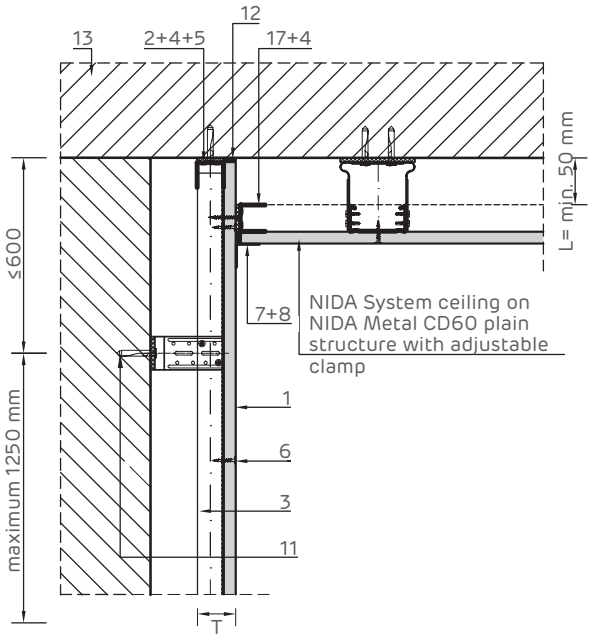


1. 1x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
10. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/ etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL2 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

Detailed crossing with floating floor system. Vertical section at bottom of lining for superior acoustic performance.

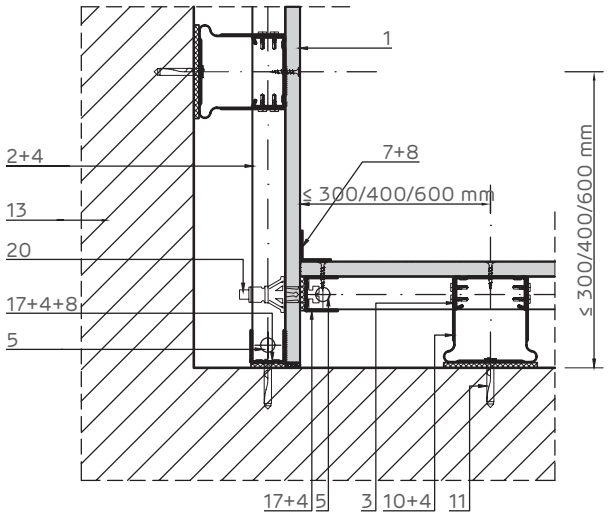


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section

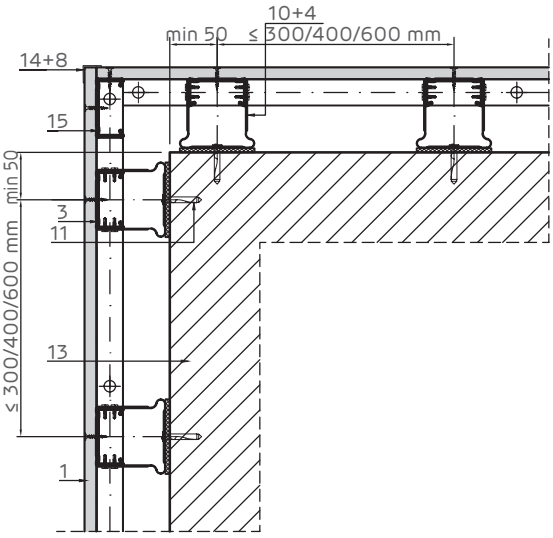


NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

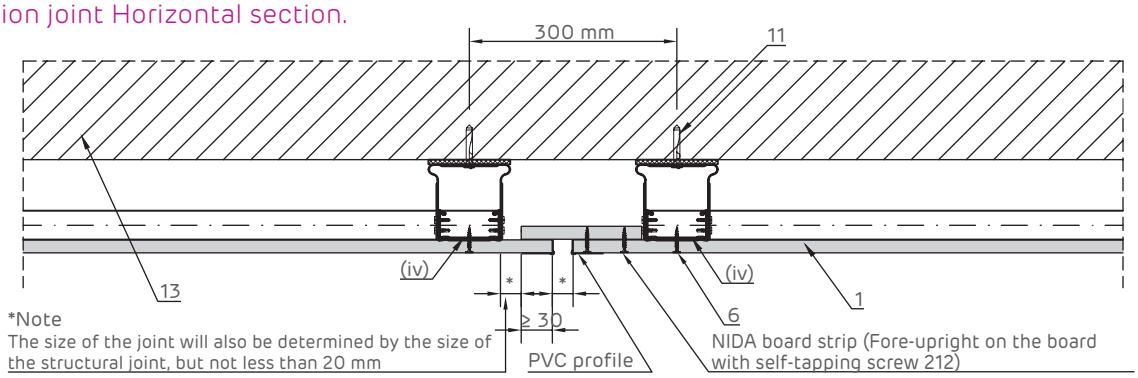
90° corner joint. Horizontal section.



270° corner joint. Horizontal section.



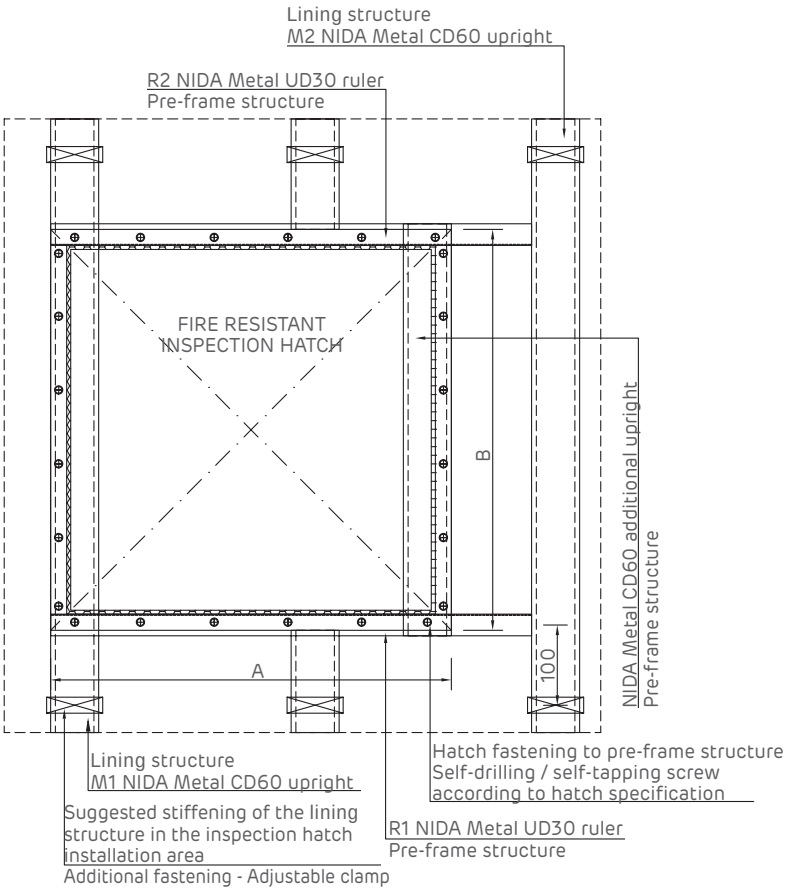
Expansion joint Horizontal section.



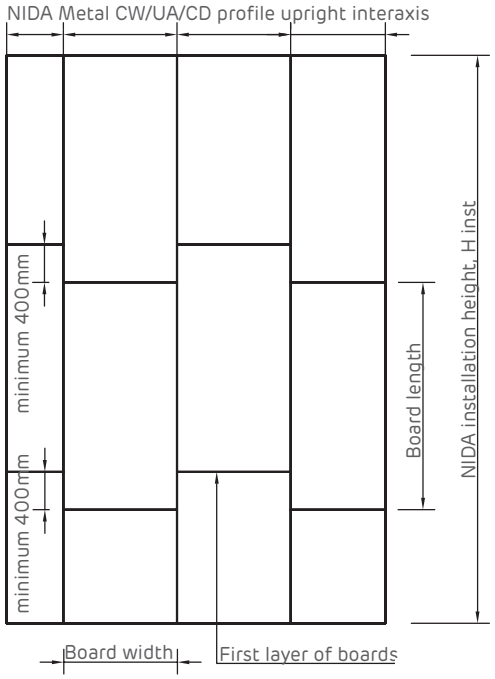
*Note
The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm

NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

Access hatch elevation.



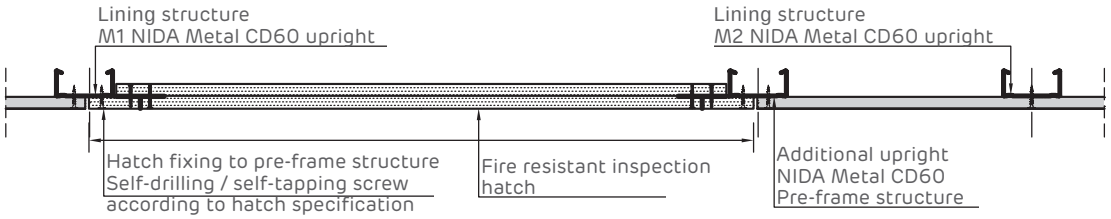
Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:
- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

NIDA System T - Single-layer lining on NIDA Metal CD profiles with intermediate fixing. Horizontal section of the inspection hatch.



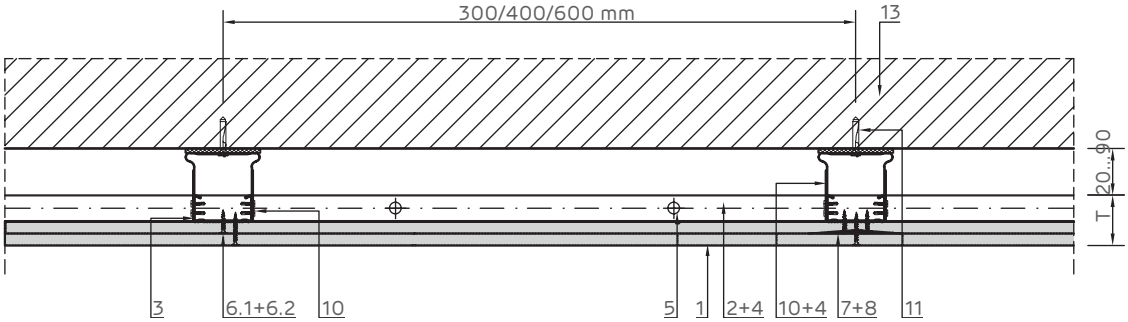
NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

1. 1x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 50 cm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
10. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL2 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

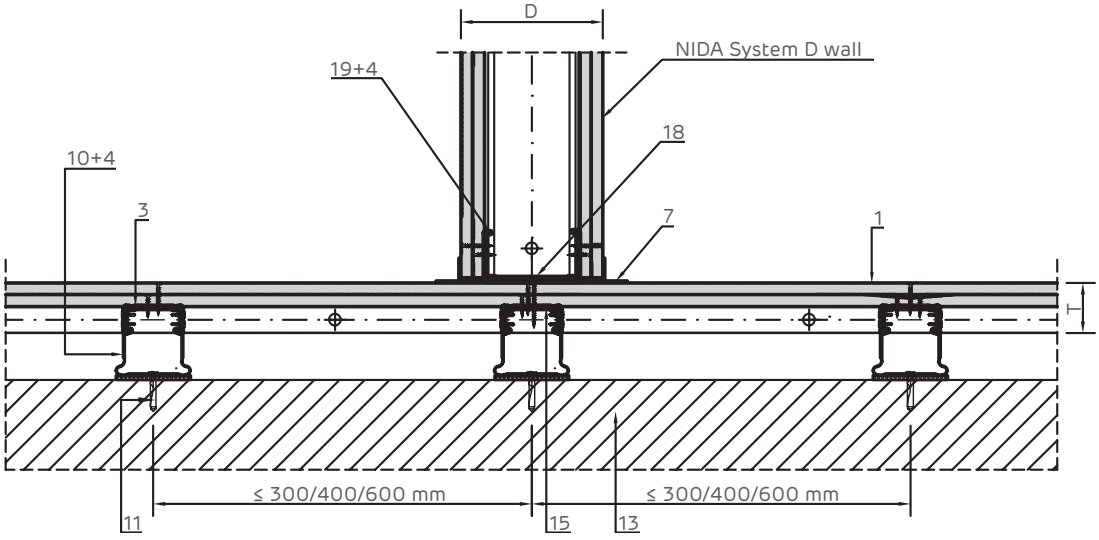
NIDA System T.CD

NIDA System T.CD double-layer lining on NIDA Metal CD/UD structure, with intermediate fixing

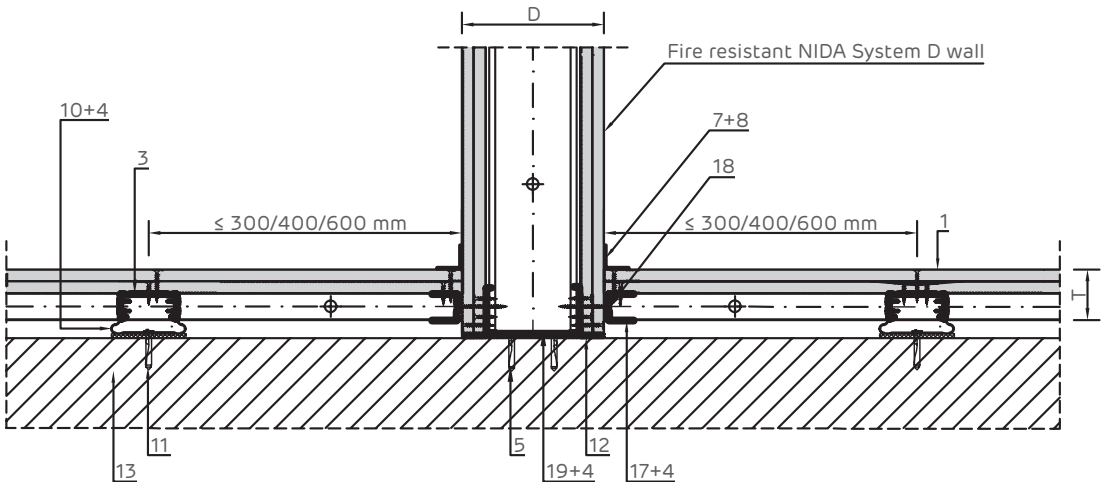
Attachment to stiff support. Horizontal cross-section.



Crossing with D wall less resistant to fire
Horizontal section.

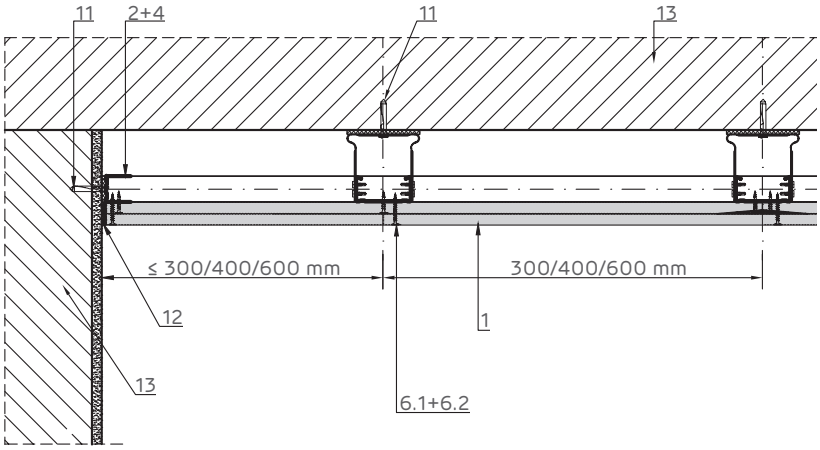


Crossing with D wall more resistant to fire
Horizontal section.

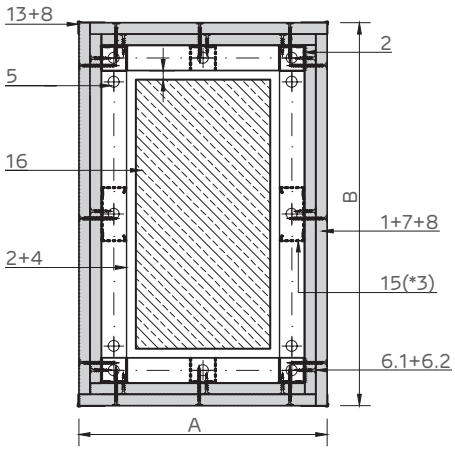


NOTE (*):
NIDA Metal UD30 end profile may be fixed to NIDA System D wall via:
- Self-tapping screws + flat washer @ 500 mm, for fixing into wall CW profile
- Molly metal dowel @ 500 mm, for fastening into wall plasterboard

Rigid jointing with sturdy item Horizontal section.

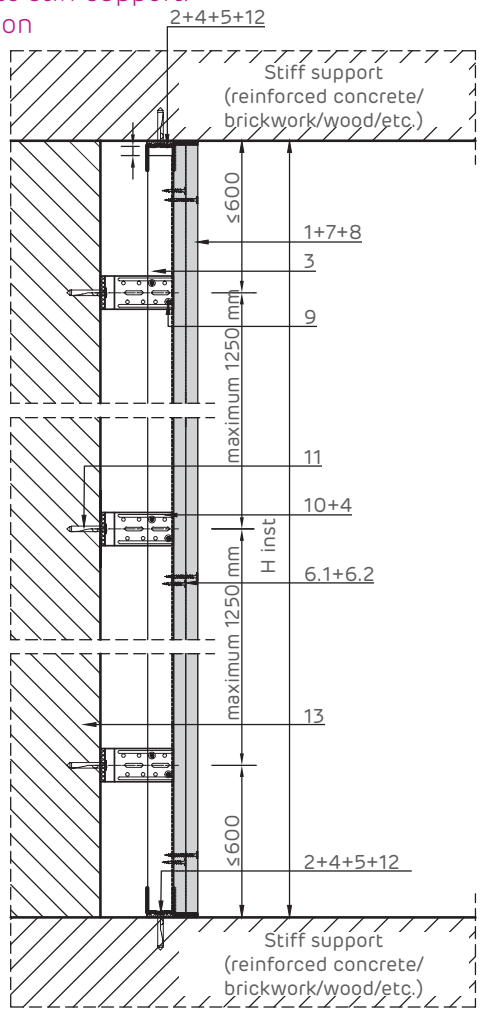


Lining of a wooden item Horizontal section.

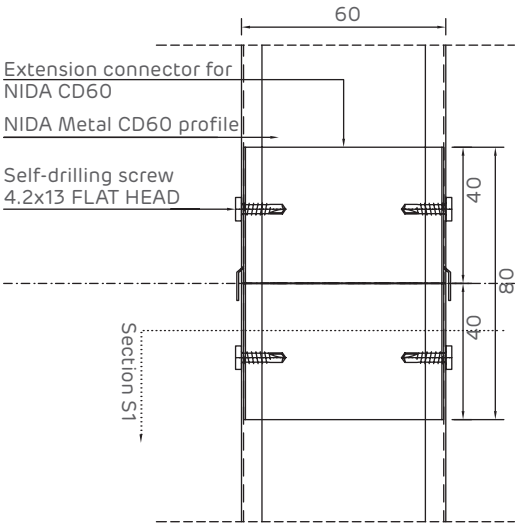


NOTE (*3):
If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (shown as a dotted line in the plan) will be placed.

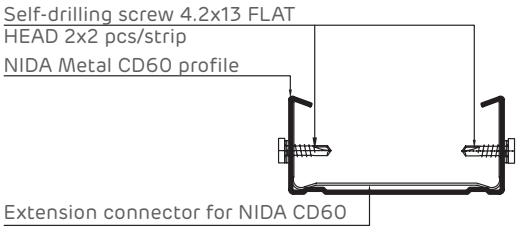
Attachment to stiff support. Vertical section



Detail of NIDA Metal CD60 profile jointing.

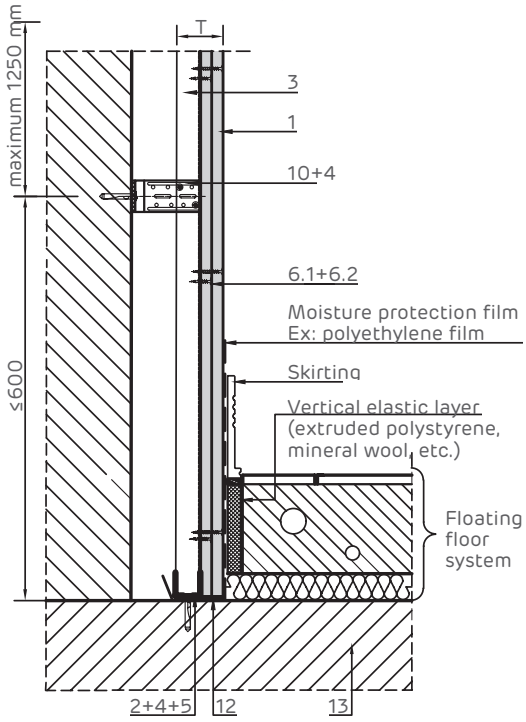


Section S1

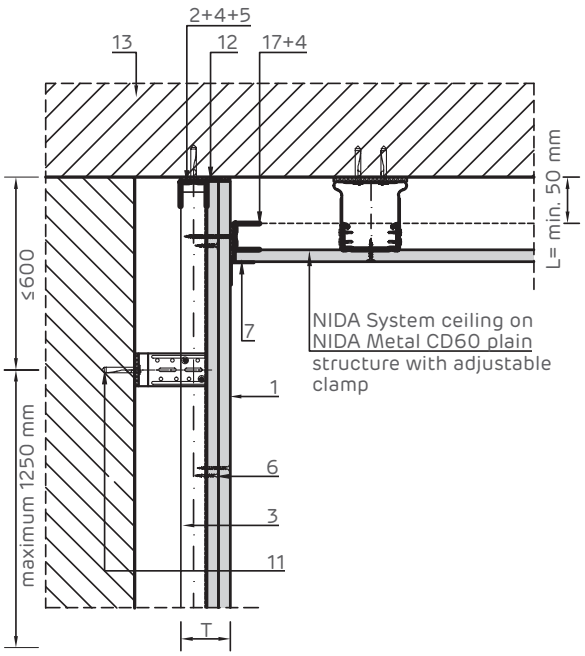


1. 2x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
10. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL3 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

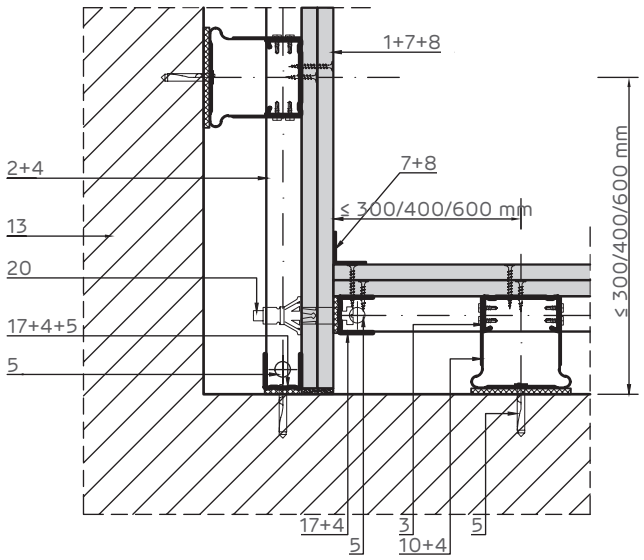


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section

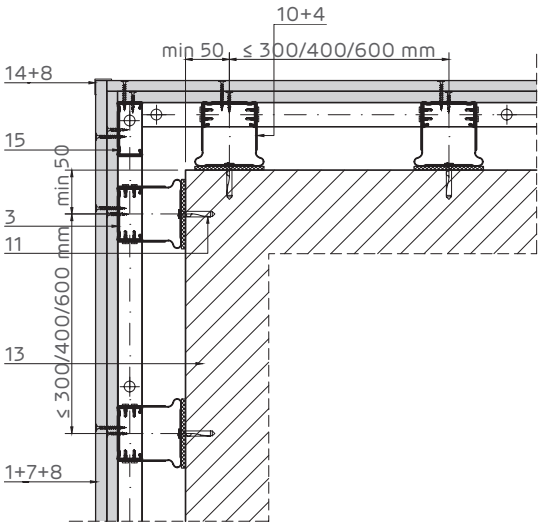


NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

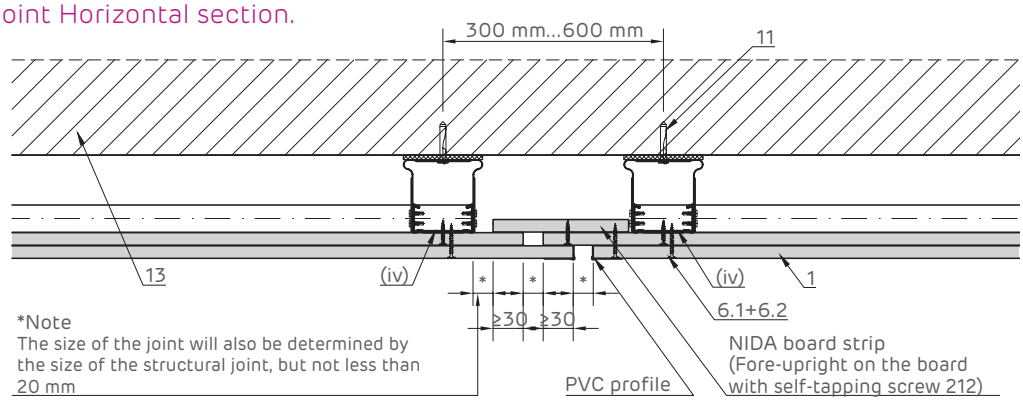
90° corner joint. Horizontal cross-section.



270° corner joint. Horizontal section.

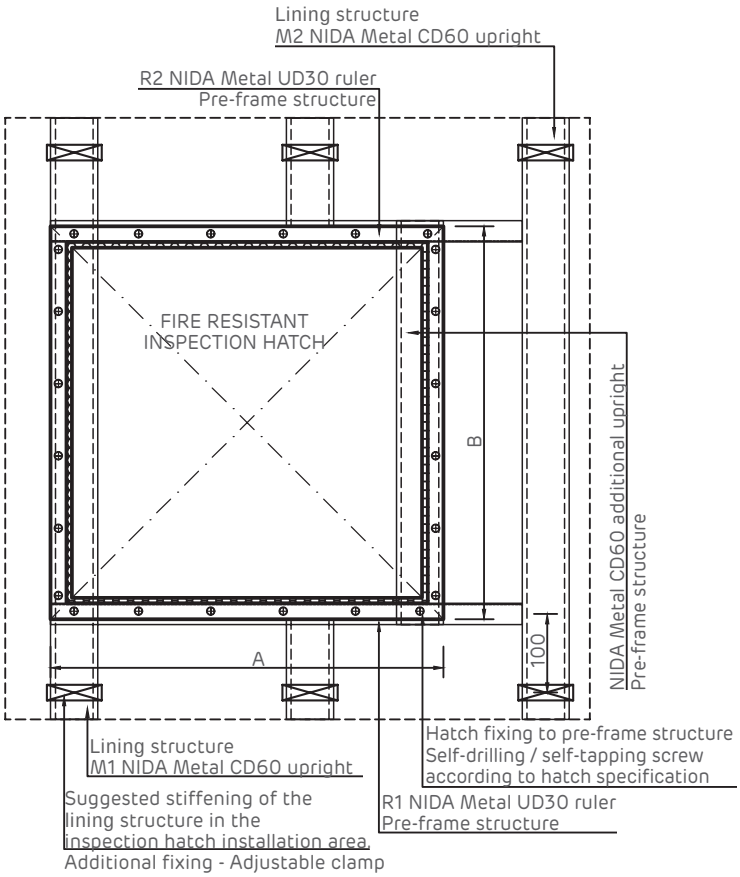


Expansion joint Horizontal section.

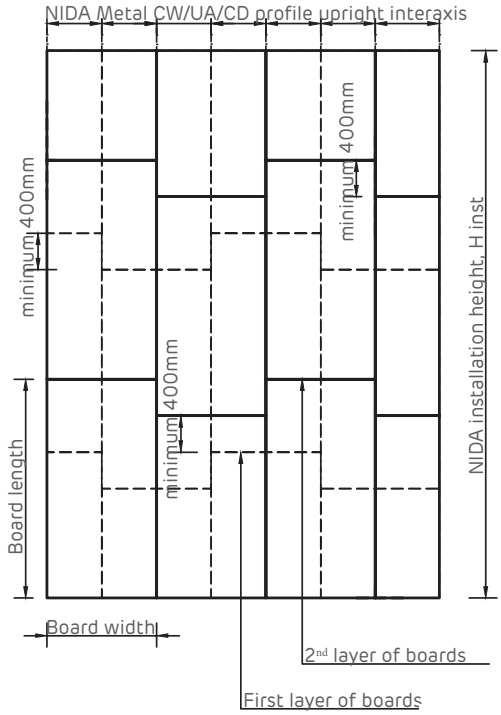


NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

Access hatch elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



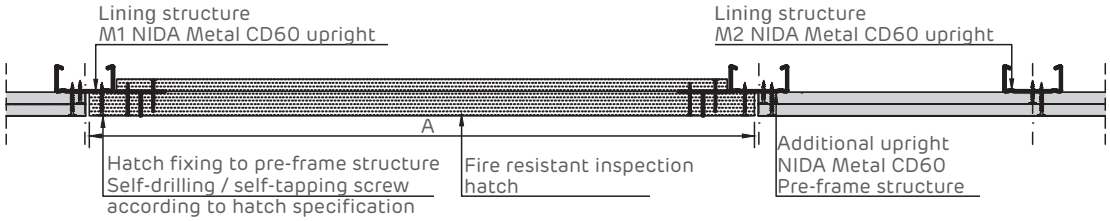
NOTE (*):

The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

NIDA System T - Double-layer lining on NIDA Metal CD profiles with intermediate fixing. Horizontal section of the inspection hatch.



NOTE:

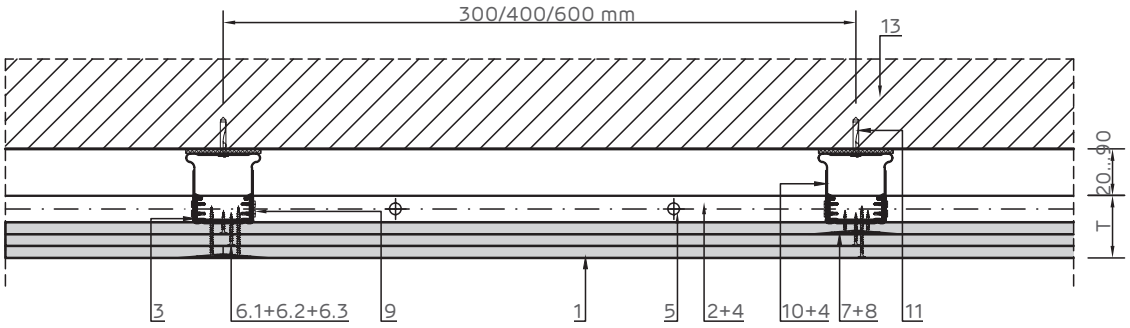
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

1. 2x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 600
7. Self-tapping screw 212xL2 @ 300
8. Jointing tape (*2)
9. NIDA Profesional jointing plaster
10. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
11. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL3 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

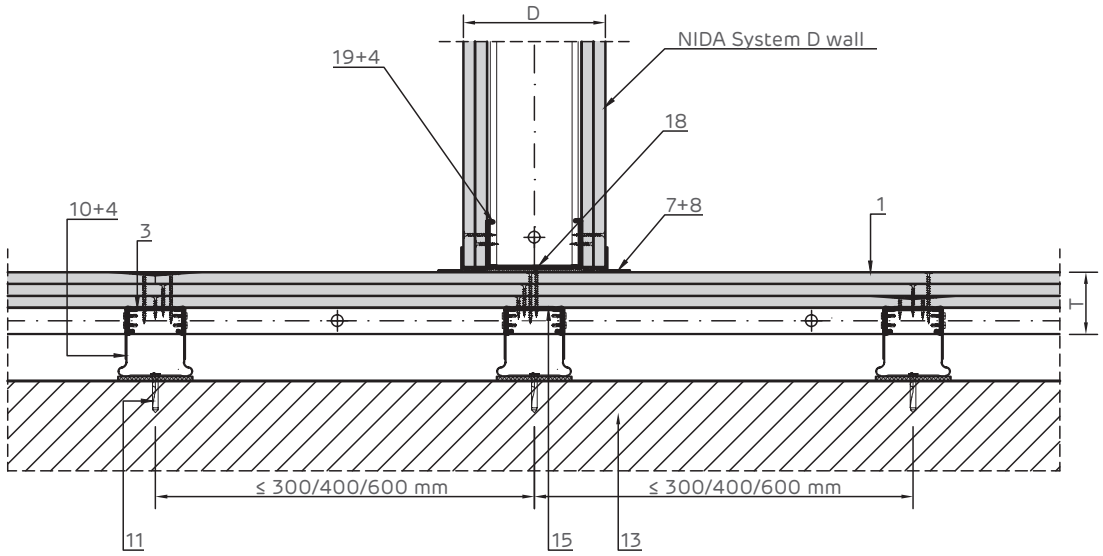
NIDA System T.CD

NIDA System T.CD triple-layer lining on NIDA Metal CD/UD structure, with intermediate fixing

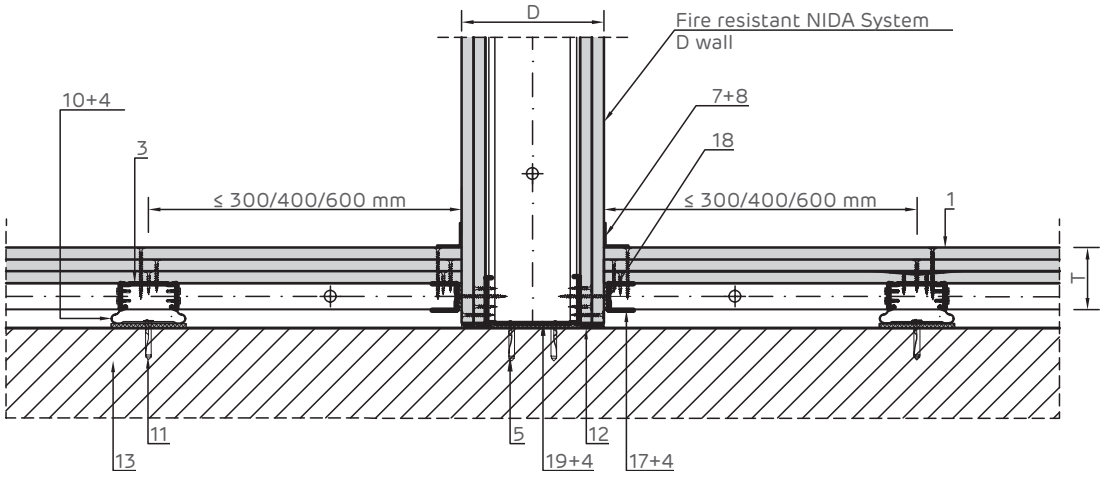
Attachment to stiff support. Horizontal section.



Crossing with D wall less resistant to fire
Horizontal section.

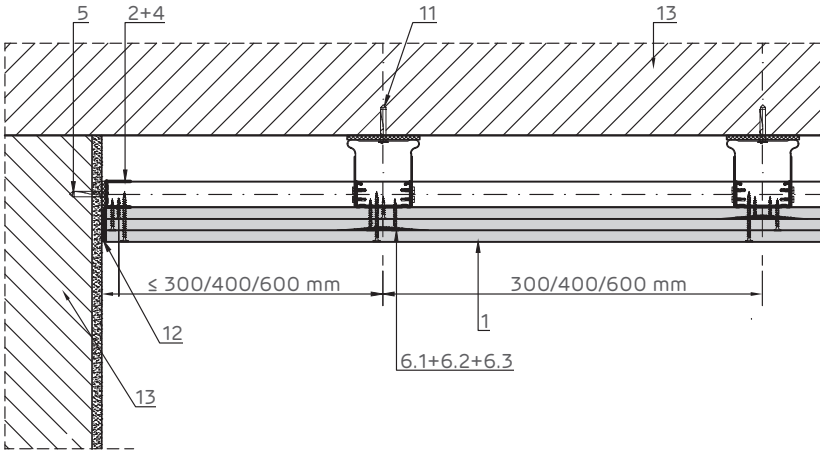


Crossing with D wall more resistant to fire
Horizontal section.

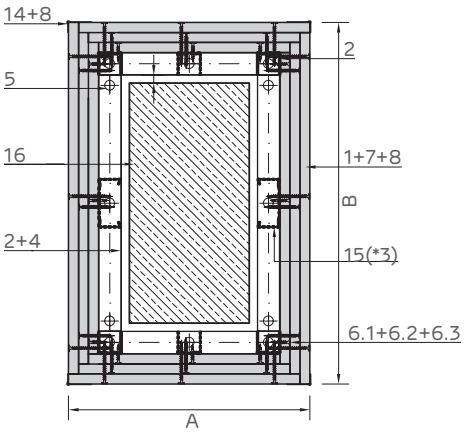


NOTE (*):
NIDA Metal UD30 end profile may be fixed to NIDA System D wall via:
- Self-tapping screws + flat washer @ 500 mm, for fixing into wall CW profile
- Molly metal dowel @ 500 mm, for fixing into wall plasterboard

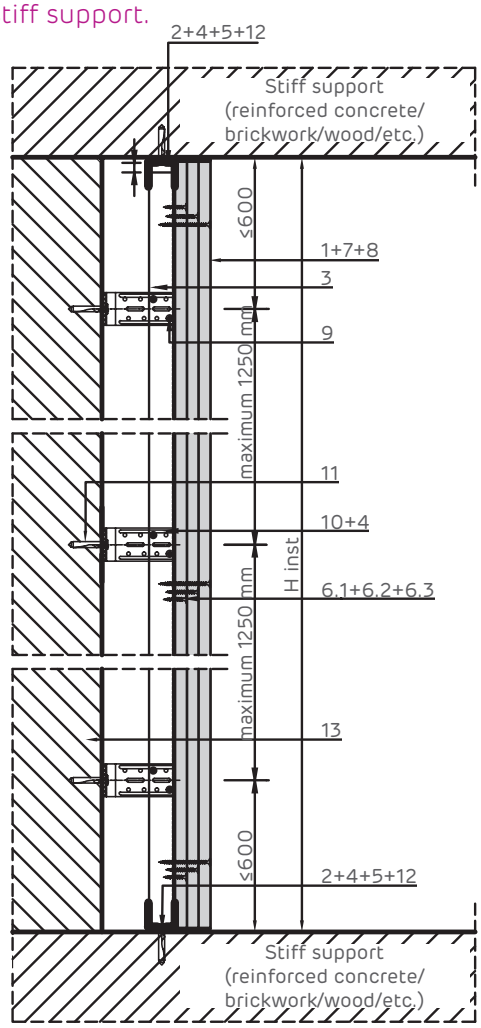
Rigid jointing with sturdy item Horizontal section.



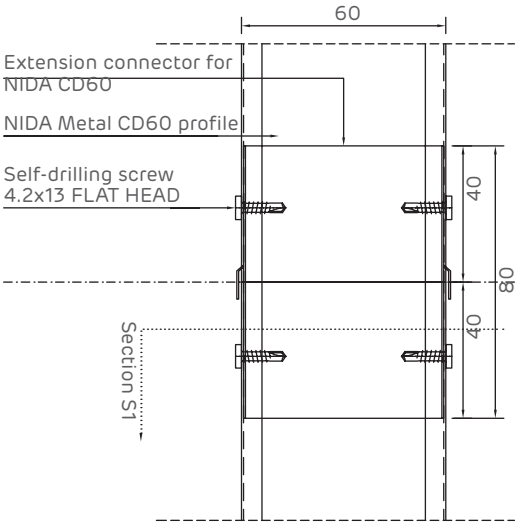
Lining of a wooden item Horizontal section.



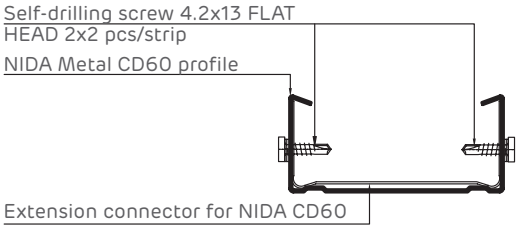
Attachment to stiff support. Vertical section



Detail of NIDA Metal CD60 profile jointing.

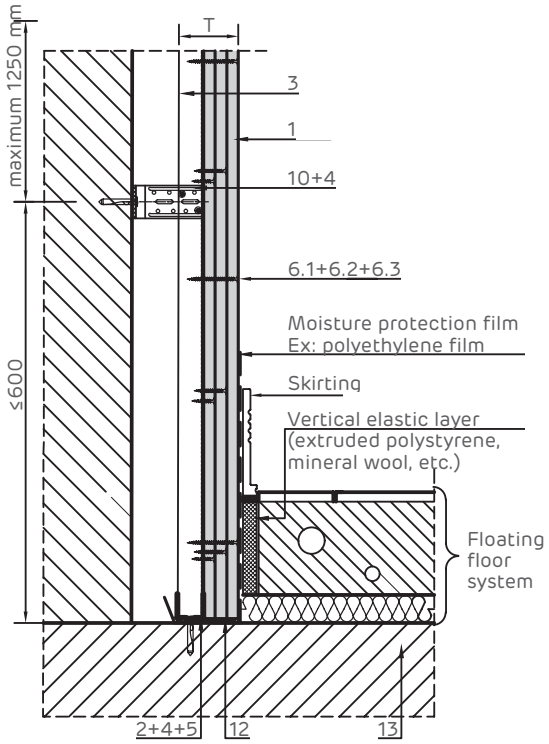


Section S1

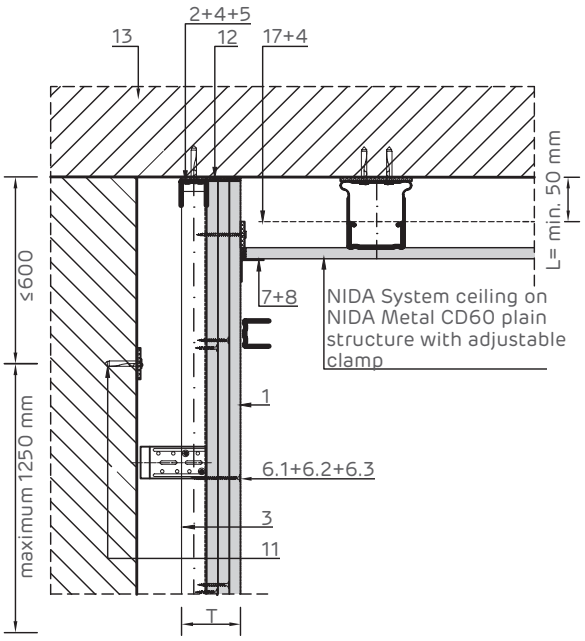


1. 3x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
10. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL4 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

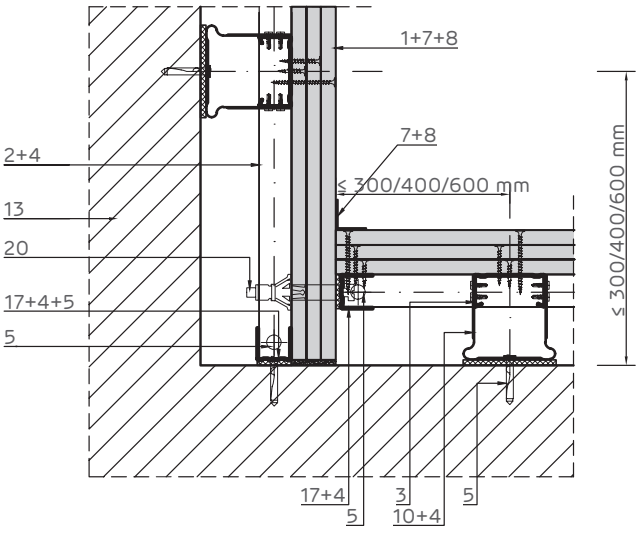


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section

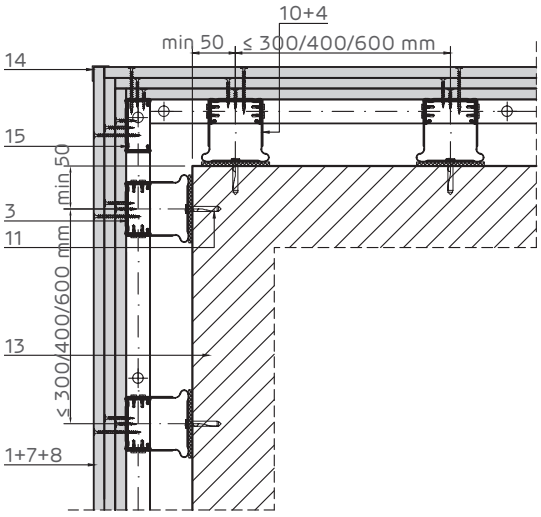


NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

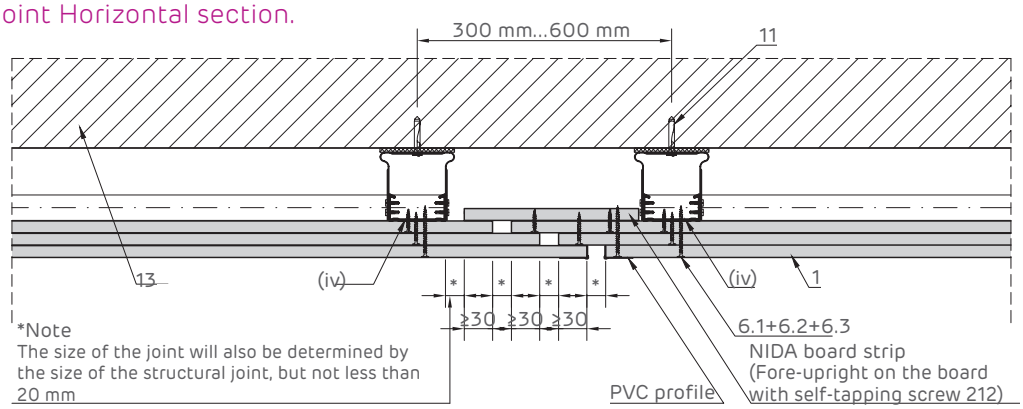
90° corner joint. Horizontal section.



270° corner joint. Horizontal section.

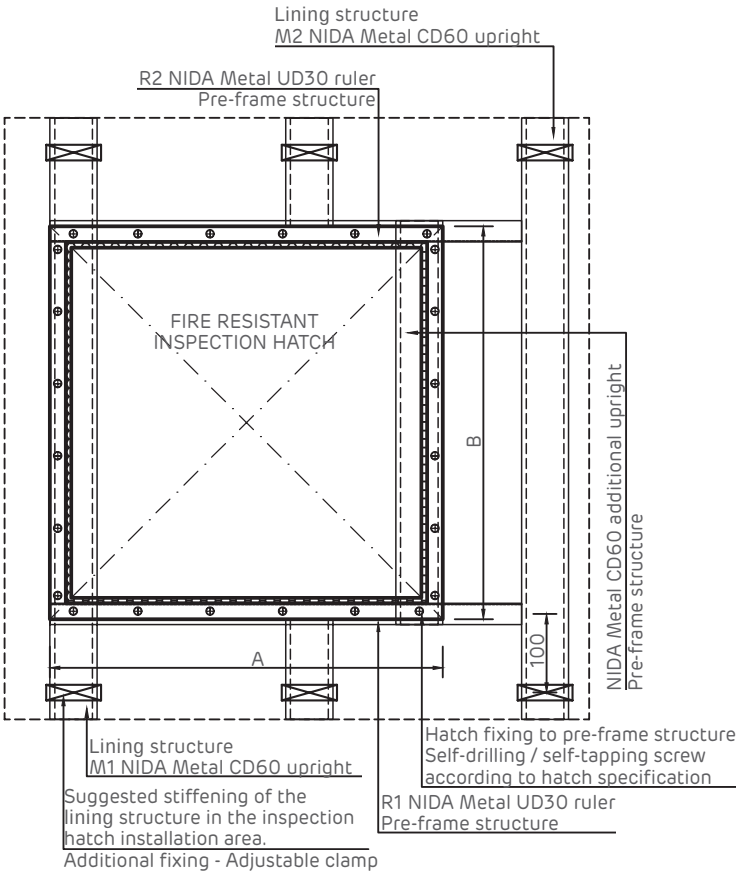


Expansion joint Horizontal section.

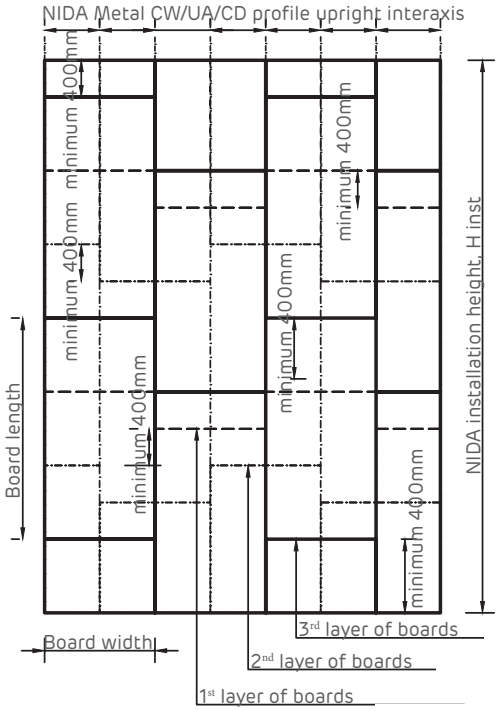


NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

Access hatch elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



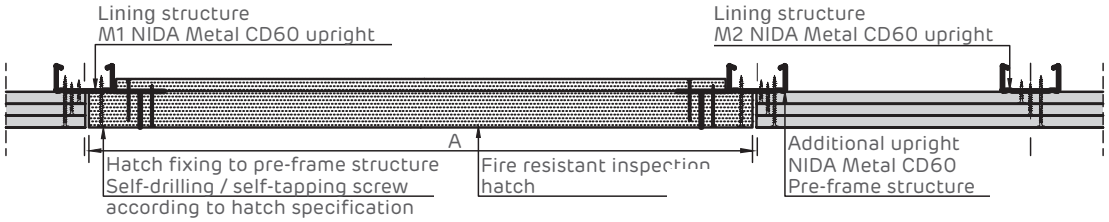
NOTE (*):

The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

NIDA System T - Triple-layer lining on NIDA Metal CD profiles with intermediate fixing. Horizontal section of the inspection hatch.



NOTE:

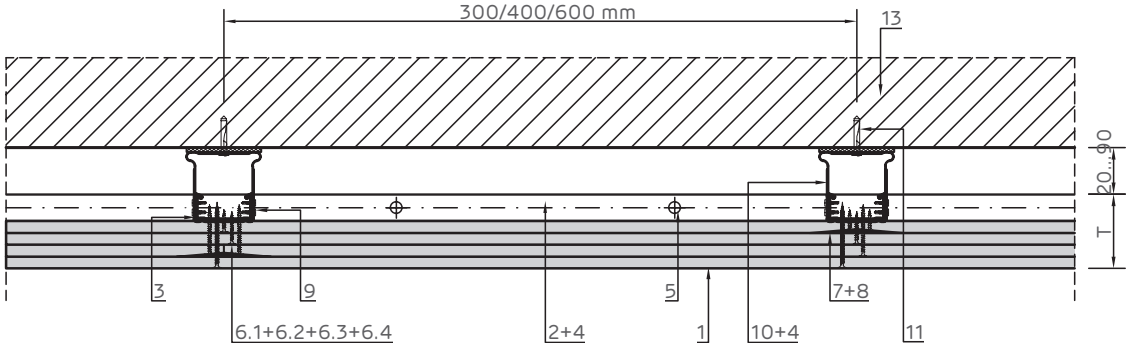
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

1. 3x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
10. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL4 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

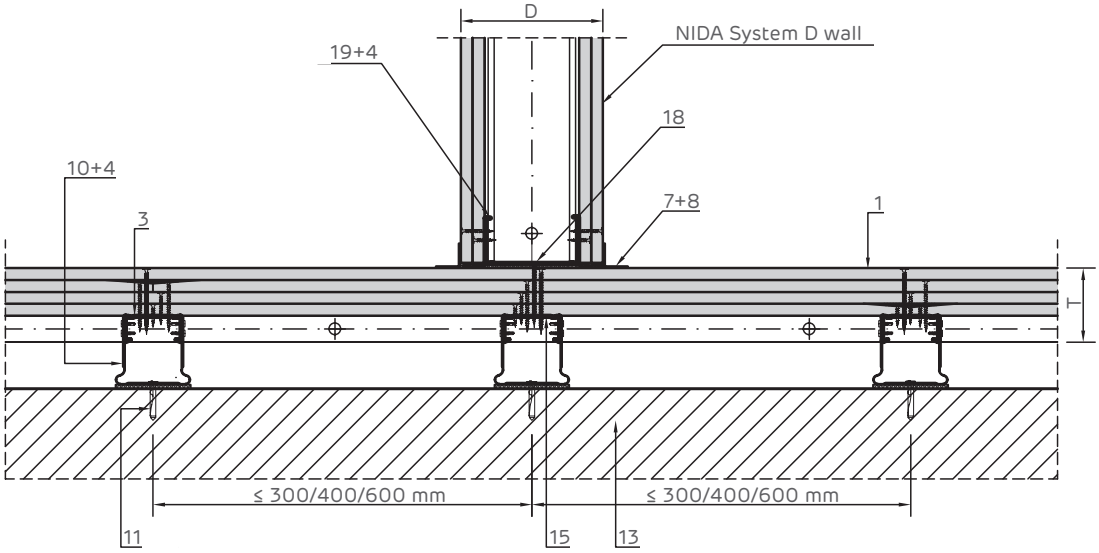
NIDA System T.CD

NIDA System T.CD four-layer lining on NIDA Metal CD/UD structure, with intermediate fixing

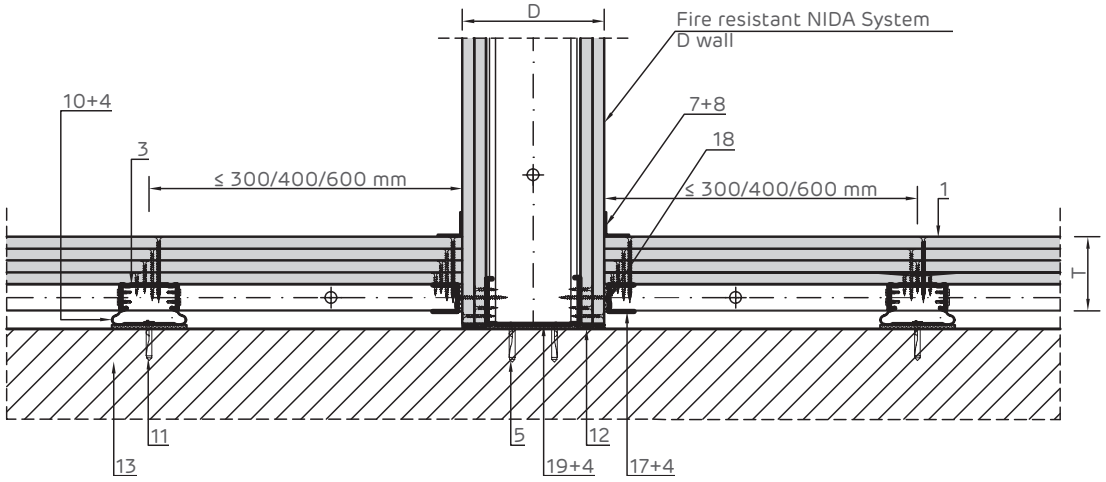
Attachment to stiff support. Horizontal section.



Crossing with D wall less resistant to fire
Horizontal section.

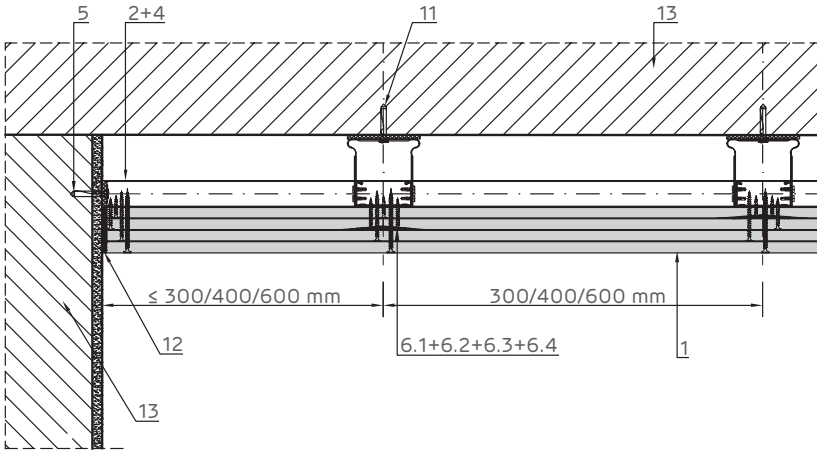


Crossing with D wall more resistant to fire
Horizontal section.

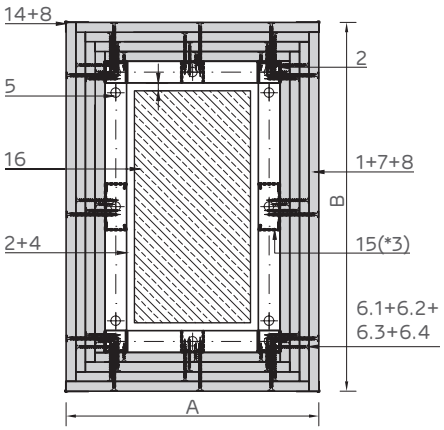


NOTE (*):
NIDA Metal UD30 end profile may be fixed to NIDA System D wall via:
- Self-tapping screws + flat washer @ 500 mm, for fixing into wall CW profile
- Molly metal dowel @ 500 mm, for fixing into wall plasterboard

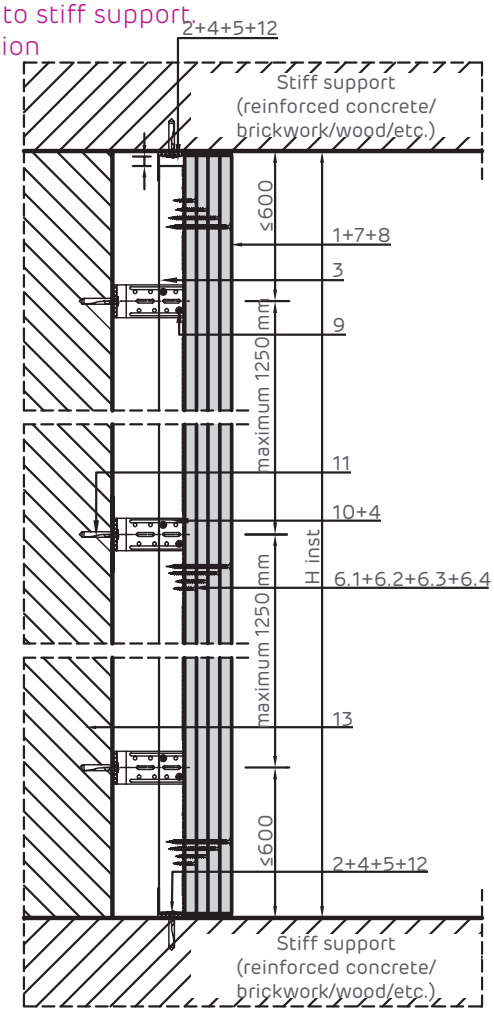
Rigid jointing with sturdy item Horizontal section.



Lining of a wooden item Horizontal section.

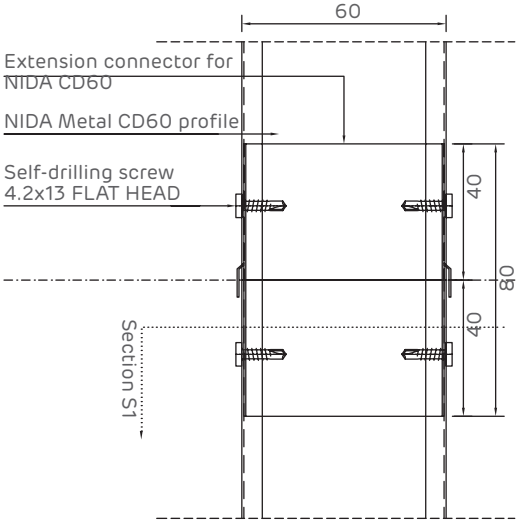


Attachment to stiff support. Vertical section

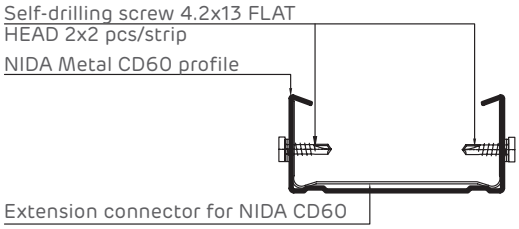


NOTE:
A minimum of 3 fasteners should be fitted along NIDA Metal UD.
(*3) If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (marked with a dotted line in the plan)should be placed.

Detail of NIDA Metal CD60 profile jointing

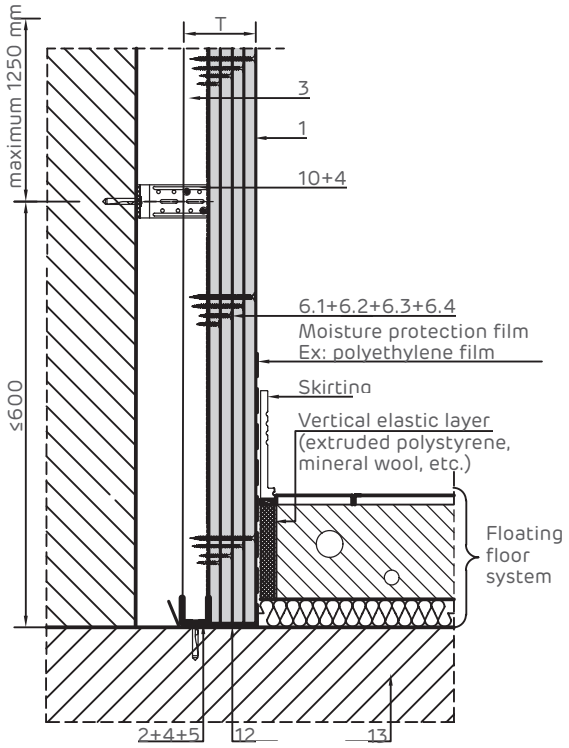


Section S1

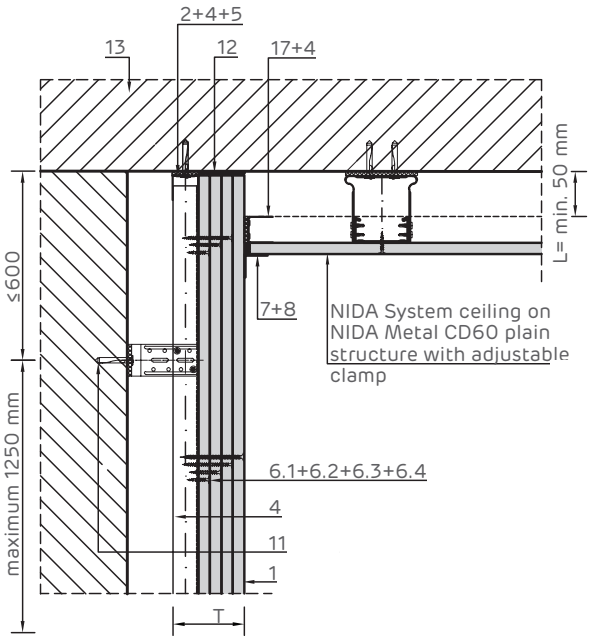


1. 4x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 600
7. Self-tapping screw 212xL2 @ 600
8. Self-tapping screw 212xL3 @ 600
9. Self-tapping screw 212xL4 @ 300
10. Jointing tape (*2)
11. NIDA Profesional jointing plaster
12. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
13. Adjustable clamp
14. Mechanical fixing (*1) 1 pc/fastening
15. NIDA Boardfix
16. Stiff support (reinforced concrete/brickwork/wood/etc.)
17. Corner protection profile
18. NIDA Metal CD60 additional profile
19. Wooden item
20. NIDA Metal UD30 end profile
21. Self-tapping screw 212xL5 + flat washer @ 500 mm
22. NIDA Metal CW profile
23. MOLLY @ 500 mm metal dowel

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

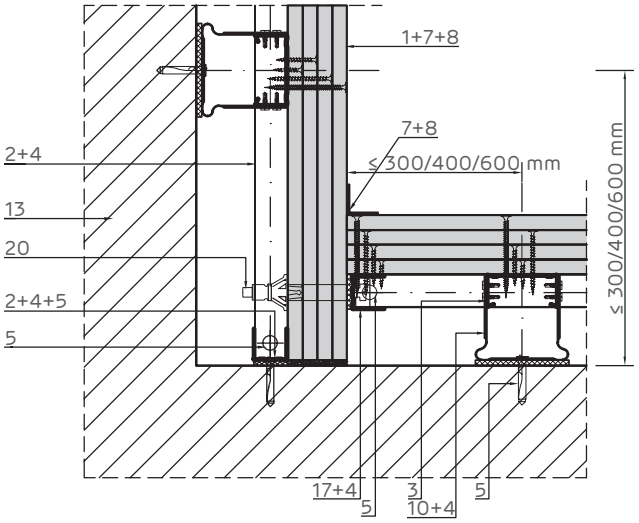


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section

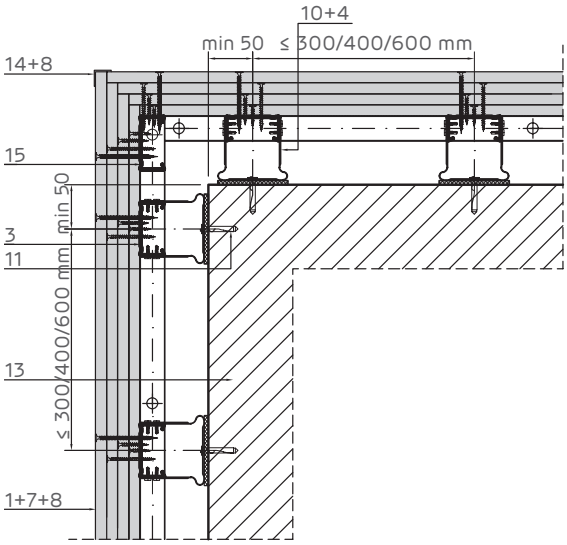


NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

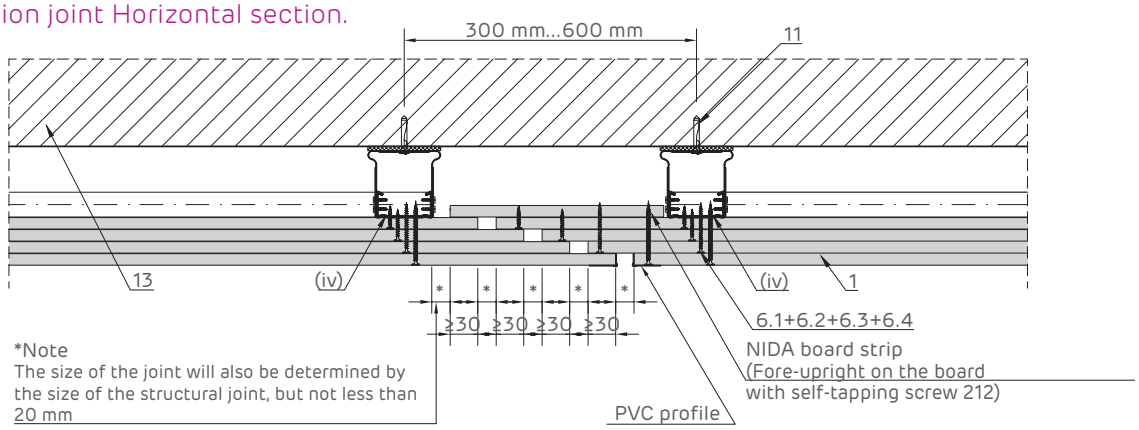
90° corner joint. Horizontal section.



270° corner joint. Horizontal section.



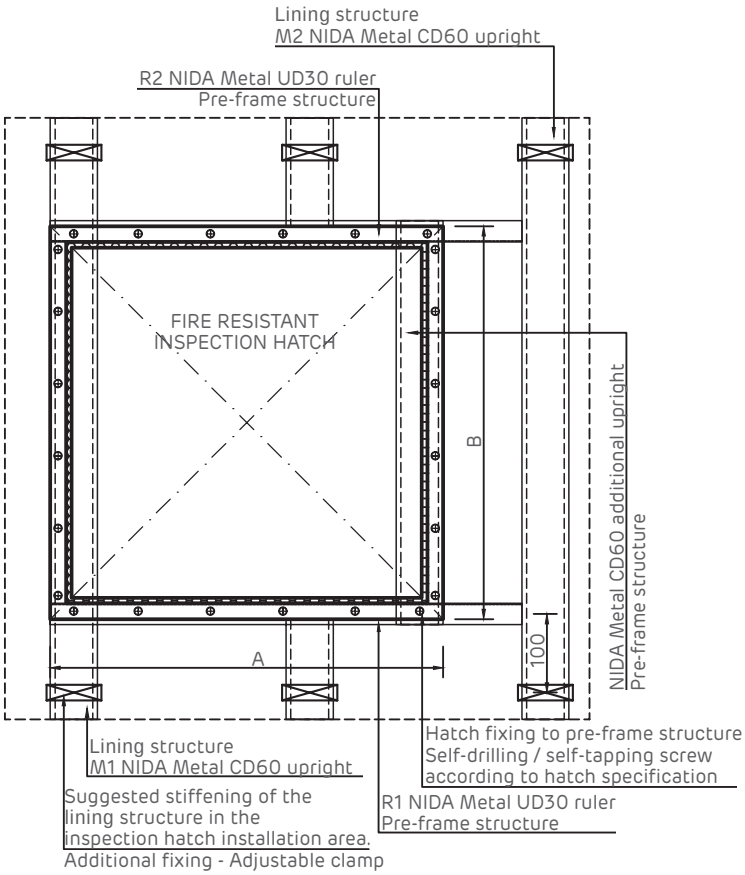
Expansion joint Horizontal section.



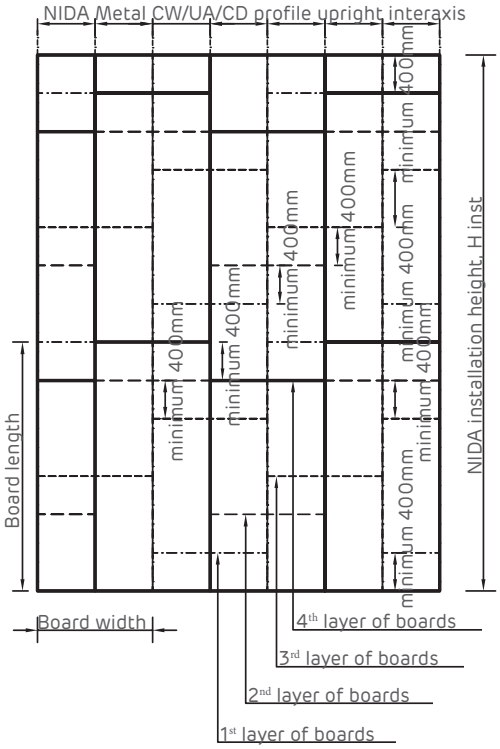
*Note
The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm

NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

Access hatch elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



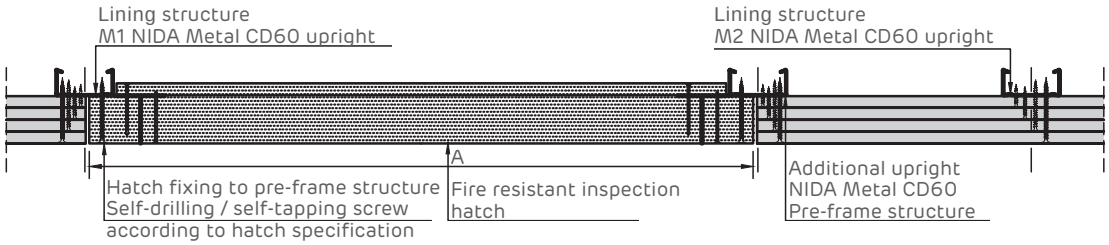
NOTE (*):

The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

NIDA System T - Four-layer lining on NIDA Metal CD profiles with intermediate fixing. Horizontal section of the inspection hatch.



NOTE:

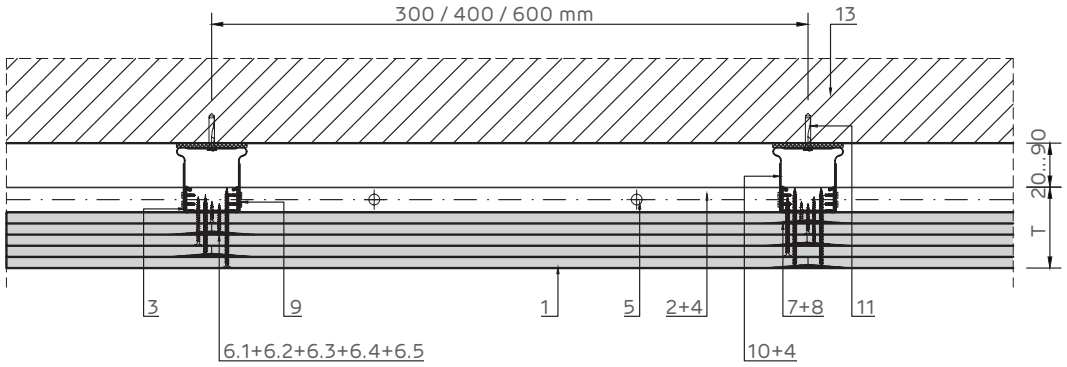
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

1. 4x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 600
7. Self-tapping screw 212xL2 @ 600
8. Self-tapping screw 212xL3 @ 600
9. Self-tapping screw 212xL4 @ 300
10. Jointing tape (*2)
11. NIDA Profesional jointing plaster
12. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
13. Adjustable clamp
14. Mechanical fixing (*1) 1 pc/fastening
15. NIDA Boardfix
16. Stiff support (reinforced concrete/brickwork/wood/etc.)
17. Corner protection profile
18. NIDA Metal CD60 additional profile
19. Wooden item
20. NIDA Metal UD30 end profile
21. Self-tapping screw 212xL5 + flat washer @ 500 mm
22. NIDA Metal CW profile
23. MOLLY @ 500 mm metal dowel

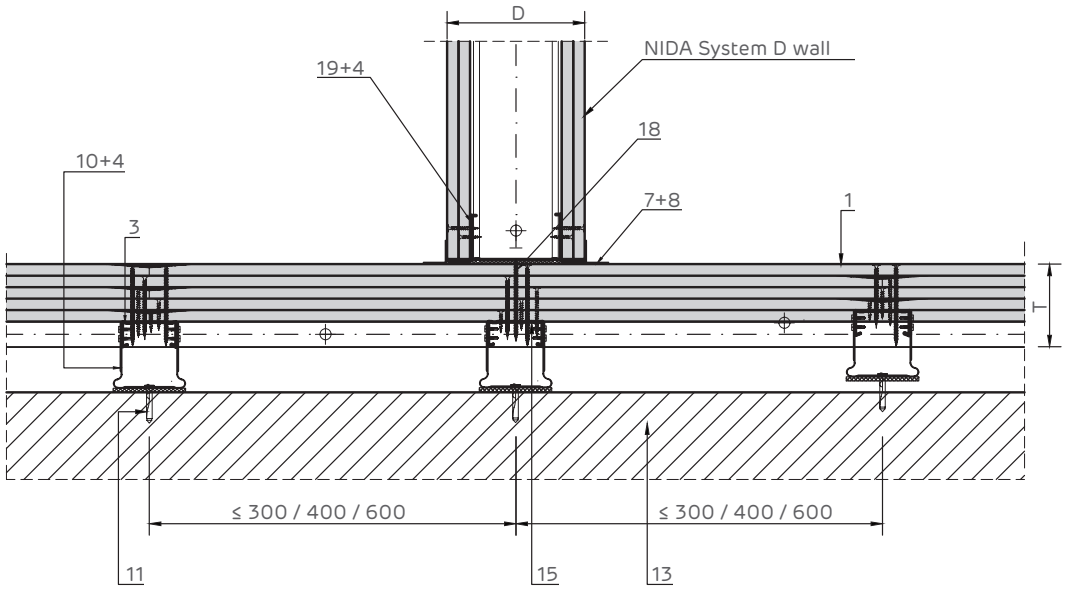
NIDA System T.CD

NIDA System T.CD five-layer lining on NIDA Metal CD/UD structure, with intermediate fixing

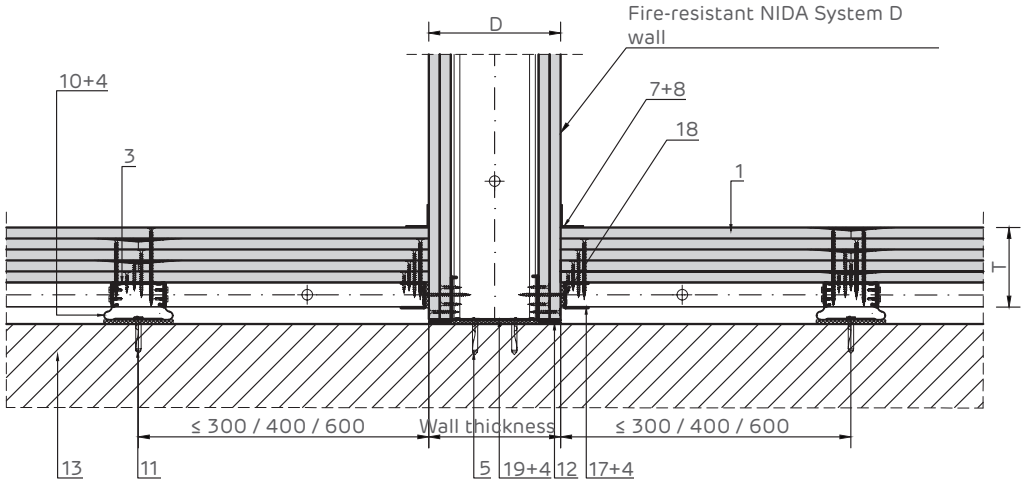
Attachment to stiff support. Horizontal section.



Crossing with D wall less resistant to fire Horizontal section.

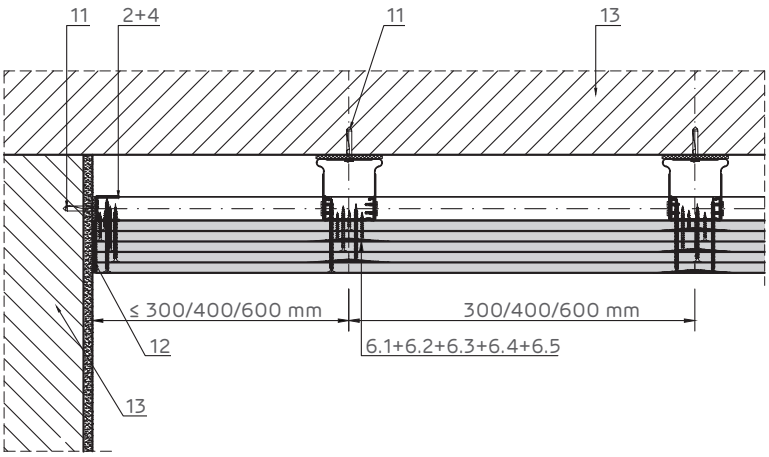


Crossing with D wall more resistant to fire Horizontal section.

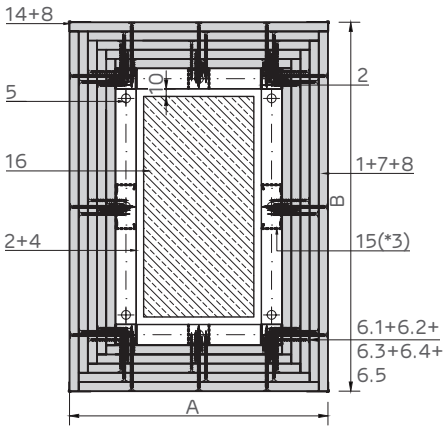


NOTE (*):
NIDA Metal UD30 end profile may be fixed to NIDA System D wall via:
- Self-tapping screws + flat washer @ 500 mm, for fixing into wall CW profile
- Molly metal dowel @ 500 mm, for fixing into wall plasterboard

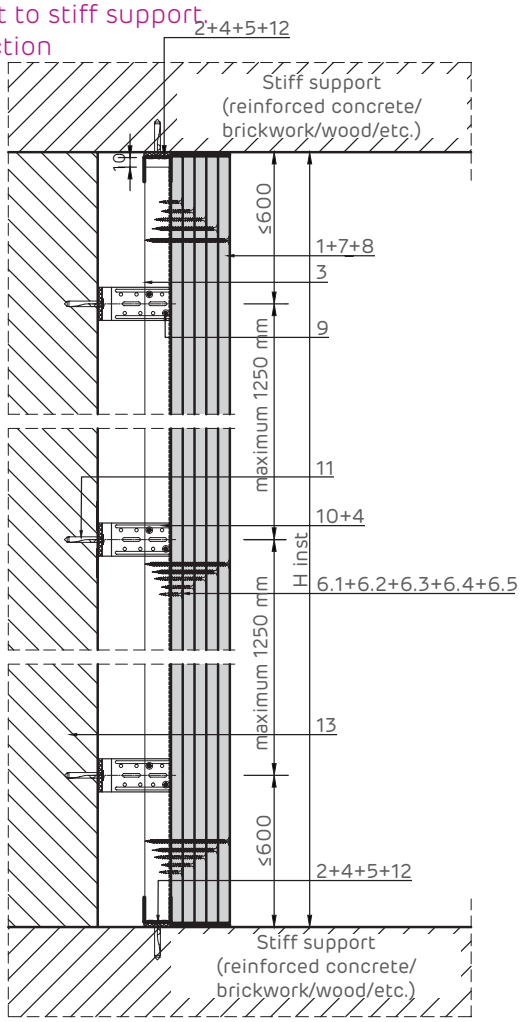
Rigid jointing with sturdy item Horizontal section.



Lining of a wooden item Horizontal section.

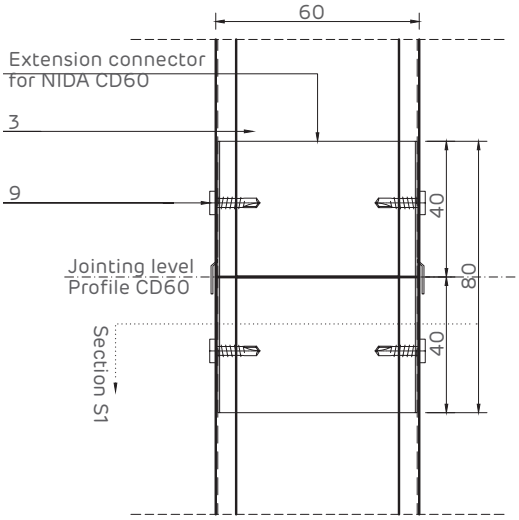


Attachment to stiff support. Vertical section

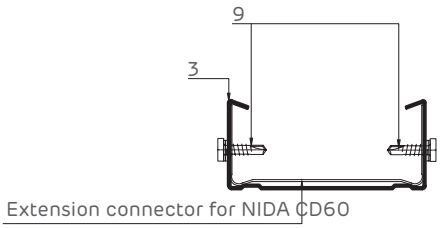


NOTE:
A minimum of 3 fasteners should be fitted along NIDA Metal UD.
(*3) If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (marked with a dotted line in the plan) should be placed.

Detail of NIDA Metal CD60 profile jointing.

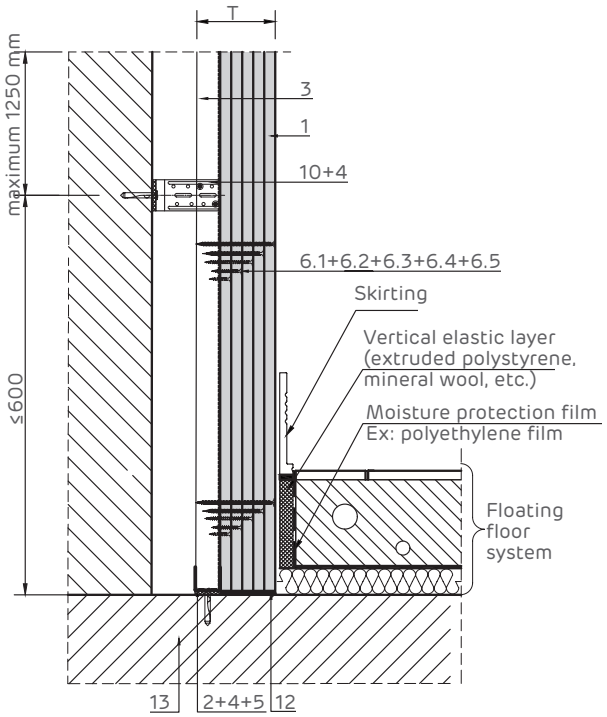


Section S1

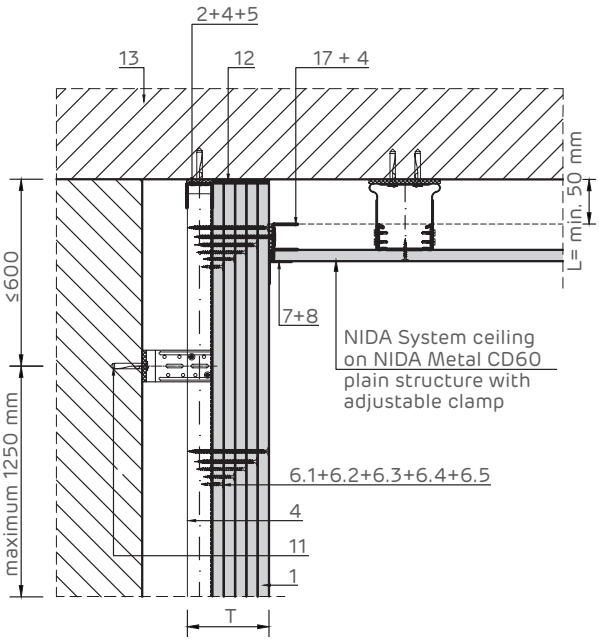


1. 5 x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 600
   6.4 Self-tapping screw 212xL4 @ 600
   6.5 Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
10. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL5 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

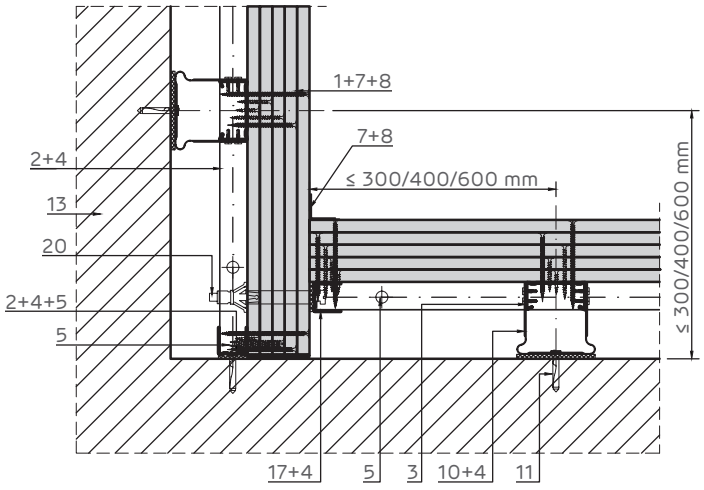


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section

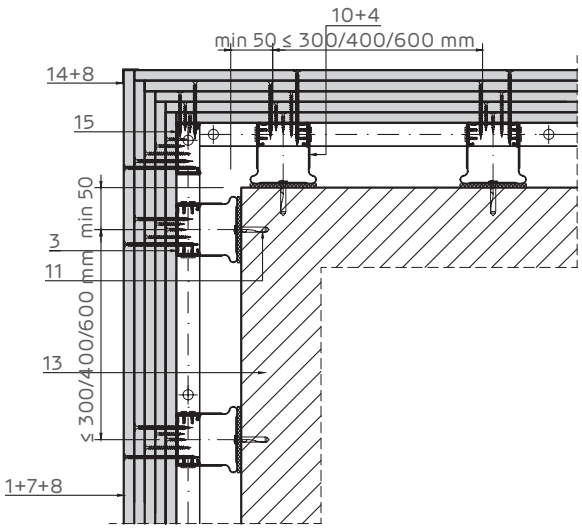


NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

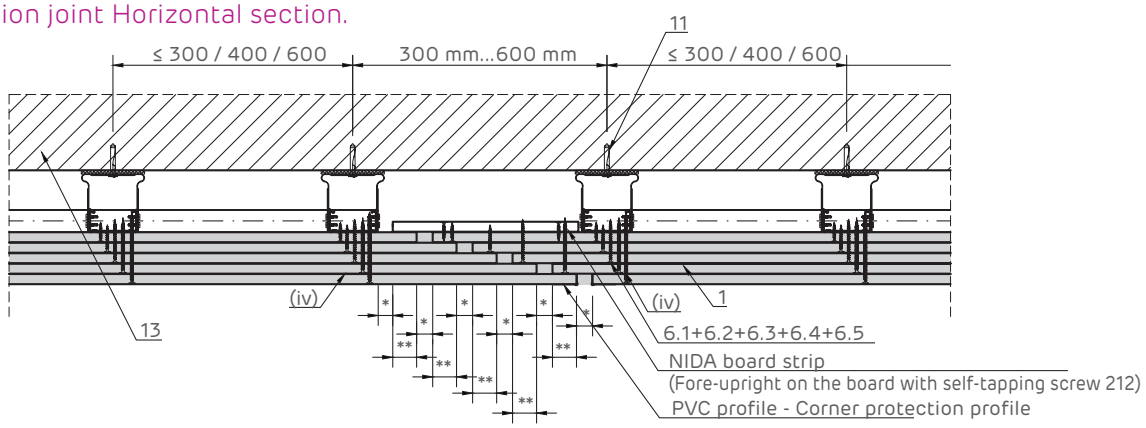
90° corner joint. Horizontal section.



270° corner joint. Horizontal section.

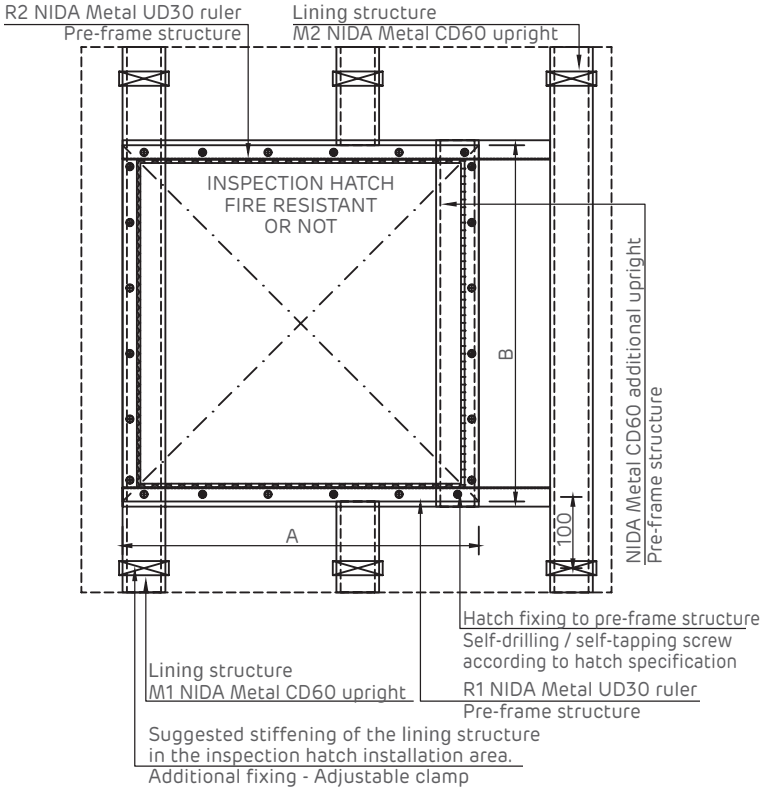


Expansion joint Horizontal section.

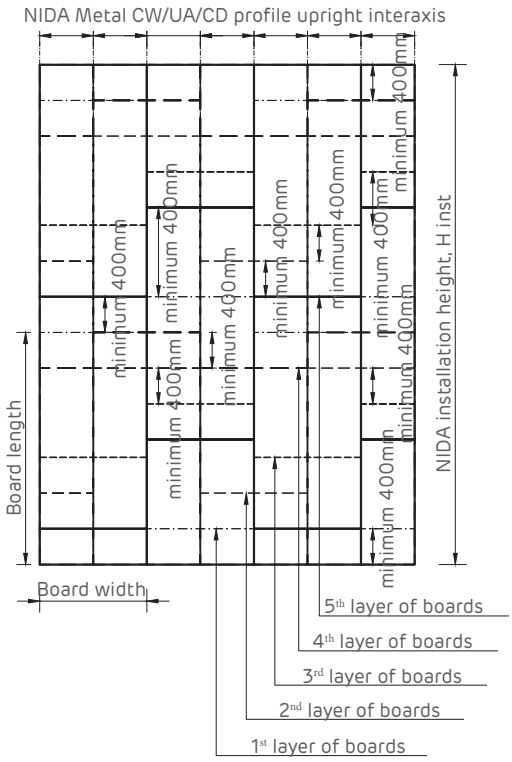


NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system
The joint should also be placed in front of structural joints.
* The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm
** The overlap of boards should have a minimum size of (* + 10 mm)

Access hatch elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



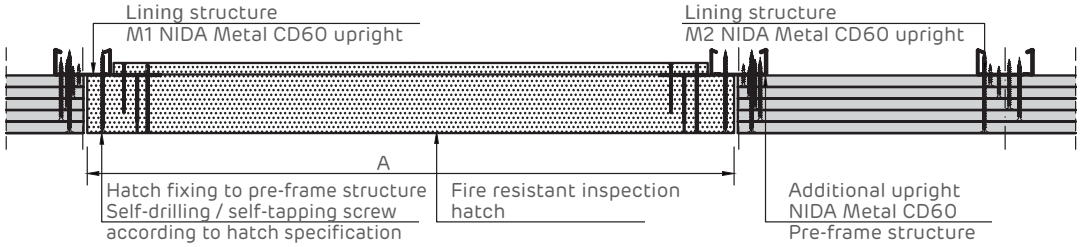
NOTE (*):

The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

NIDA System T - Five-layer lining on NIDA Metal CD profiles with intermediate fixing. Horizontal section of the inspection hatch.



NOTE:

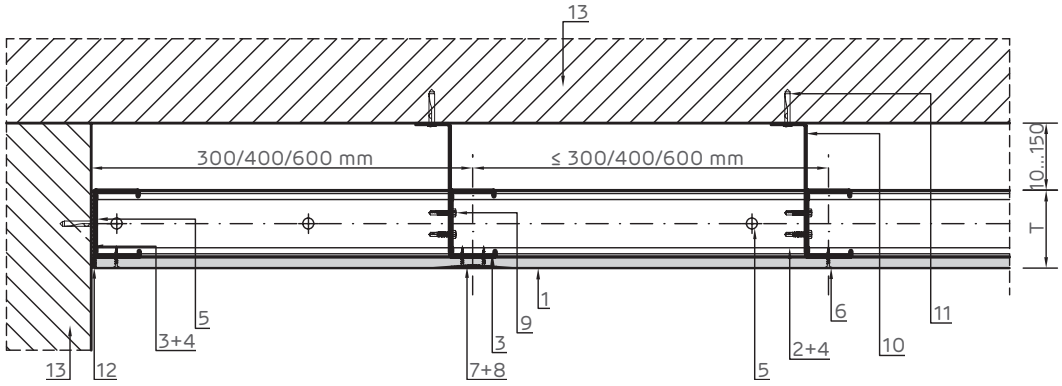
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

1. 5x Siniat plasterboard
2. NIDA Metal UD30 runner profile
3. NIDA Metal CD60 profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 600
   6.4 Self-tapping screw 212xL4 @ 600
   6.5 Self-tapping screw 212xL5 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD 2x2 pcs/fastener
10. Adjustable clamp
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. NIDA Metal CD60 additional profile
16. Wooden item
17. NIDA Metal UD30 end profile
18. Self-tapping screw 212xL5 + flat washer @ 500 mm
19. NIDA Metal CW profile
20. MOLLY @ 500 mm metal dowel

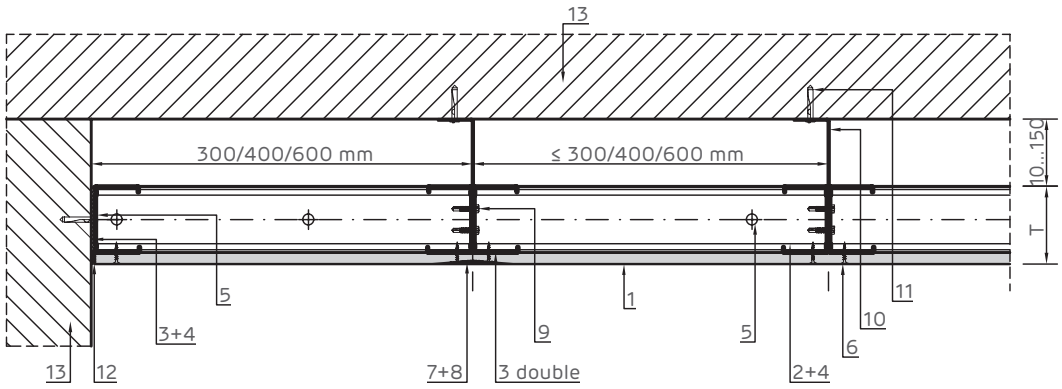
NIDA System T.CW.F

NIDA System T.CW.F single-layer lining on NIDA Metal CW/UW structure, with intermediate fixing

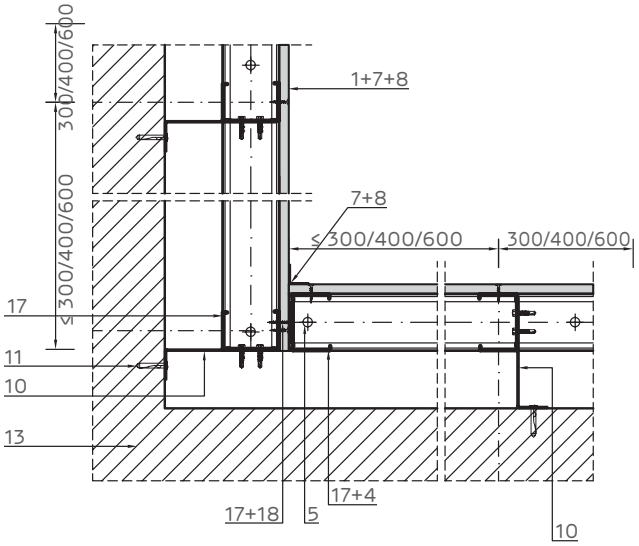
Attachment to stiff support. Horizontal section.



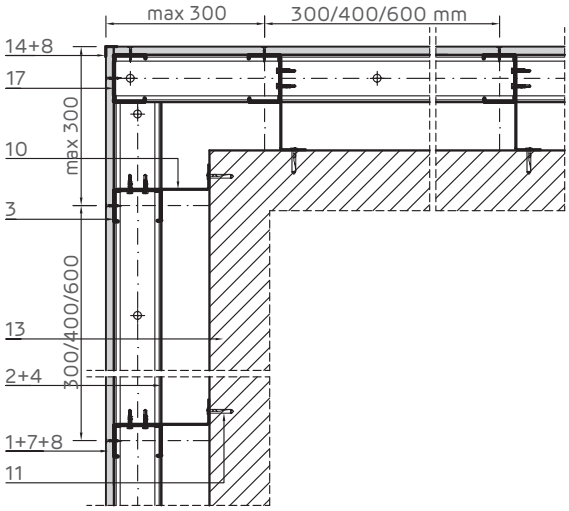
Attachment to stiff support. Horizontal section - double upright



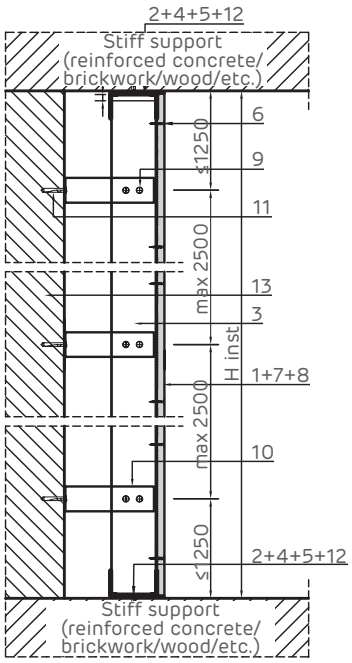
90° corner joint. Horizontal section.



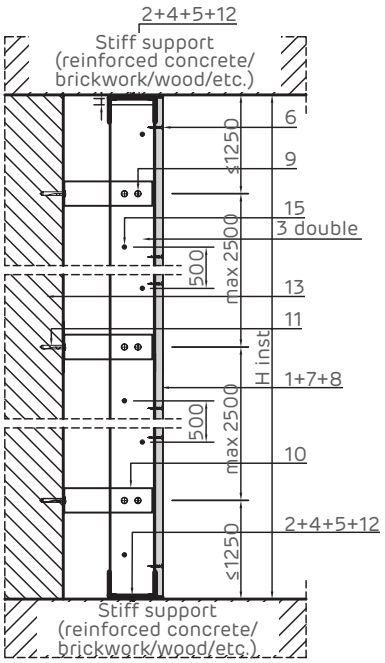
270° corner joint. Horizontal section.



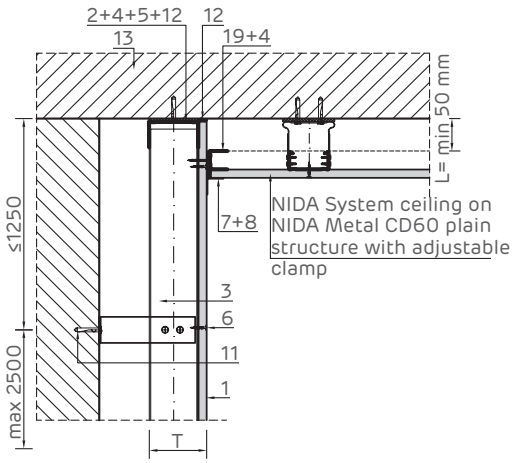
Attachment to stiff support. Vertical section



Attachment to stiff support. Vertical section - double upright

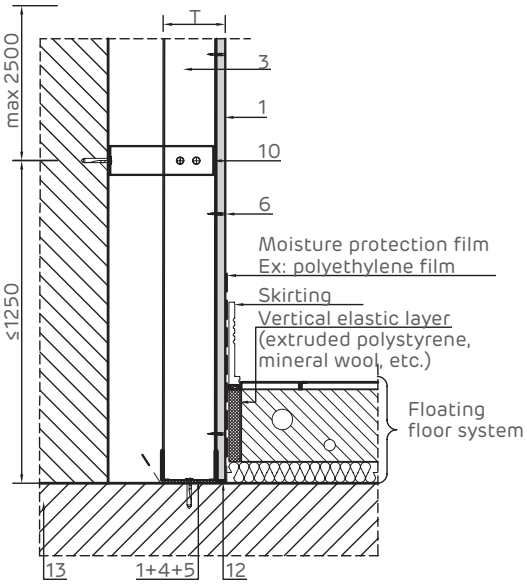


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section



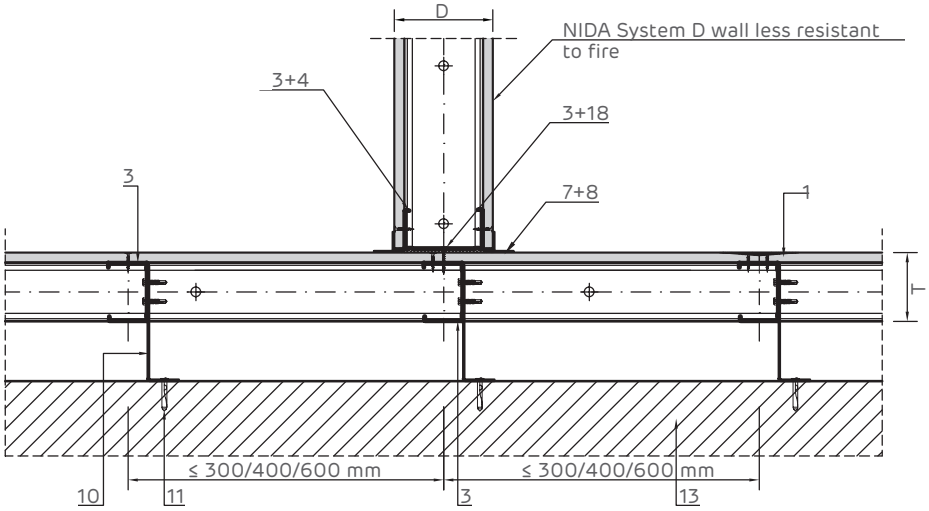
NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

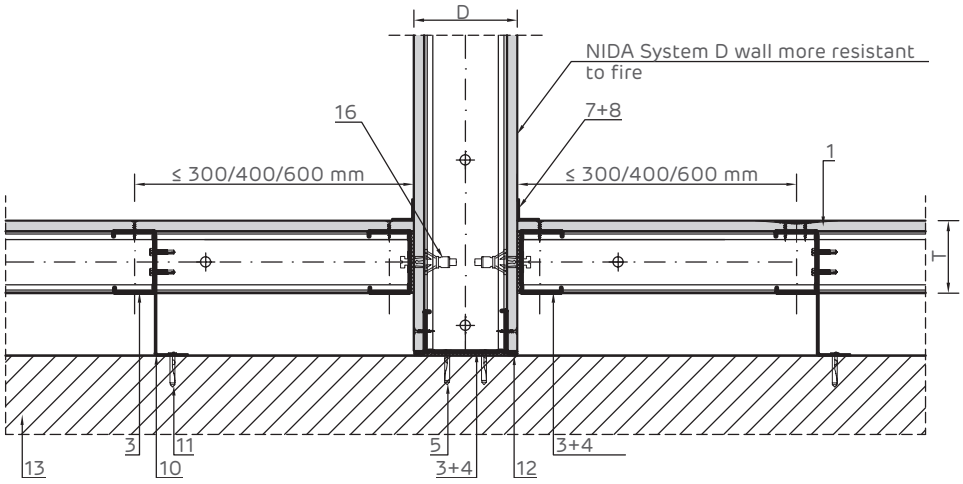


1. 1x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL2 + flat washer @500mm
19. NIDA Metal UD30 end profile

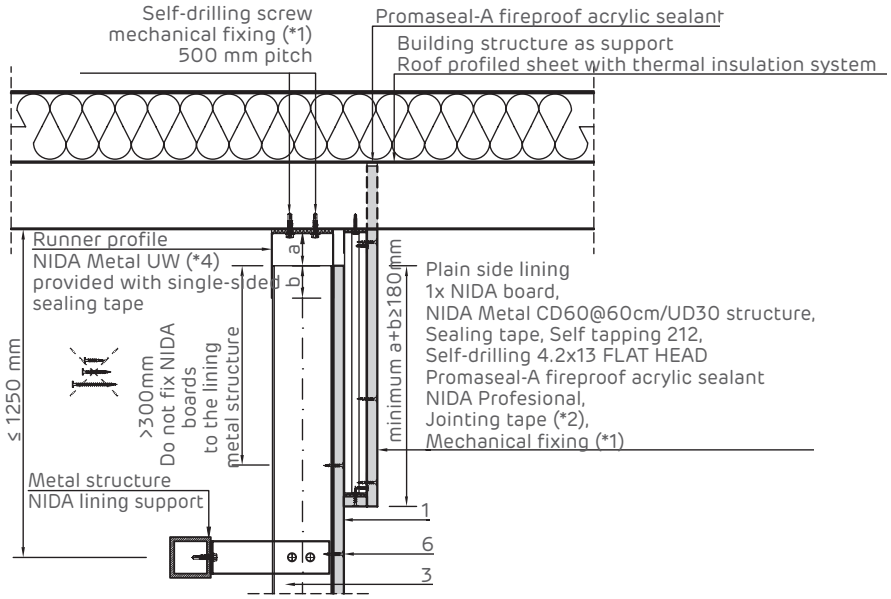
Crossing with D wall less resistant to fire
Horizontal section.



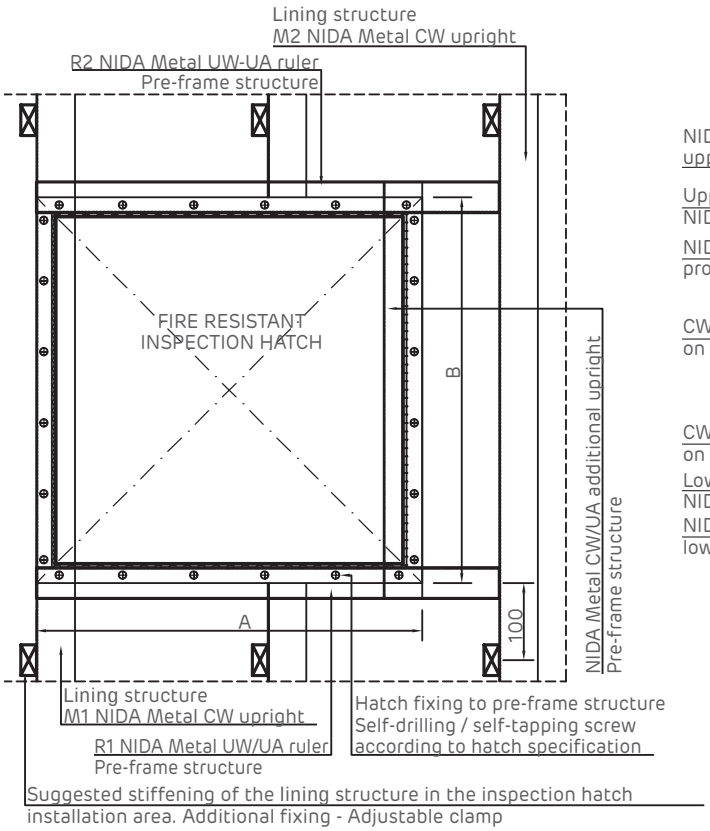
Crossing with D wall more resistant to fire
Horizontal section.



Detailed attachment at the top on the roof profiled sheet.
System perpendicular to the profiles. Vertical section



Access hatch elevation.



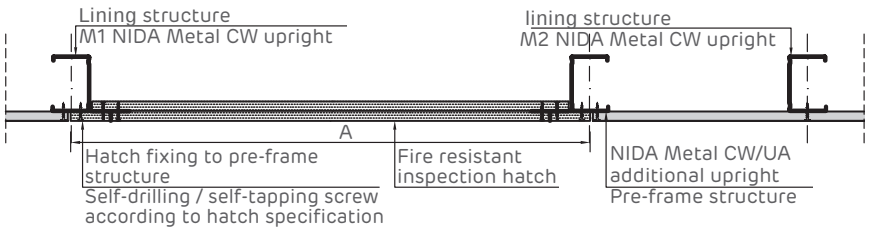
NOTE (*):

The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

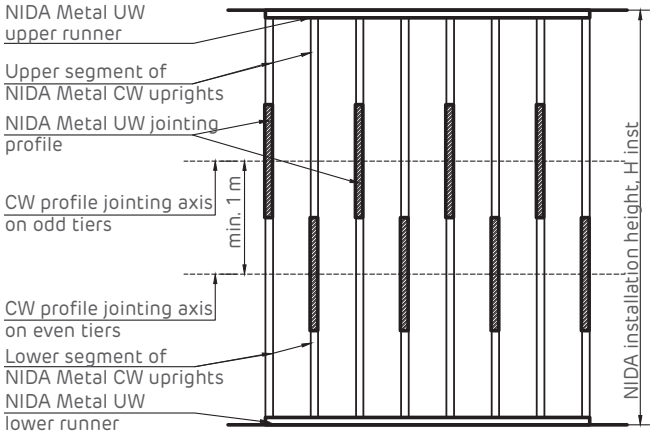
Horizontal section of the inspection hatch.



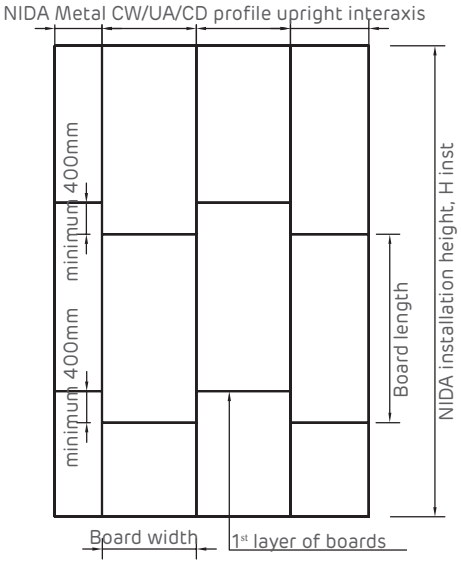
NOTE:

The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.

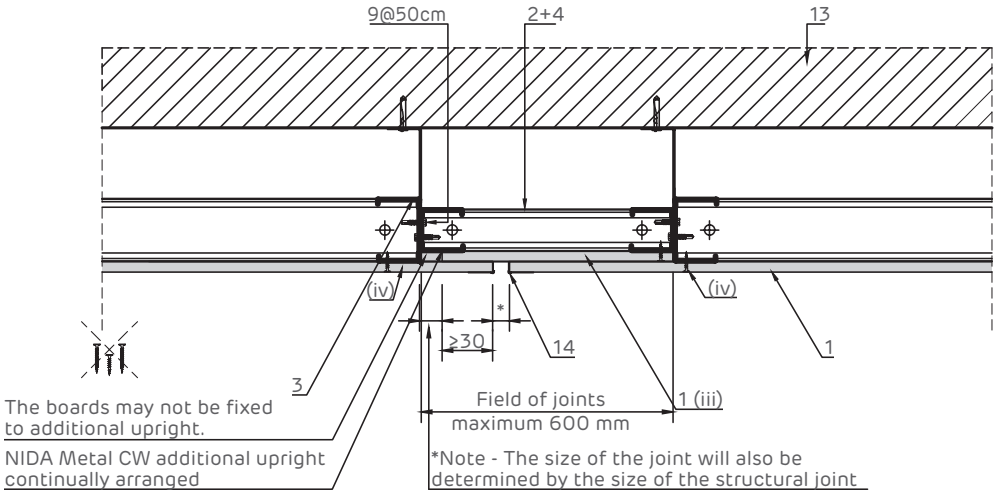


Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



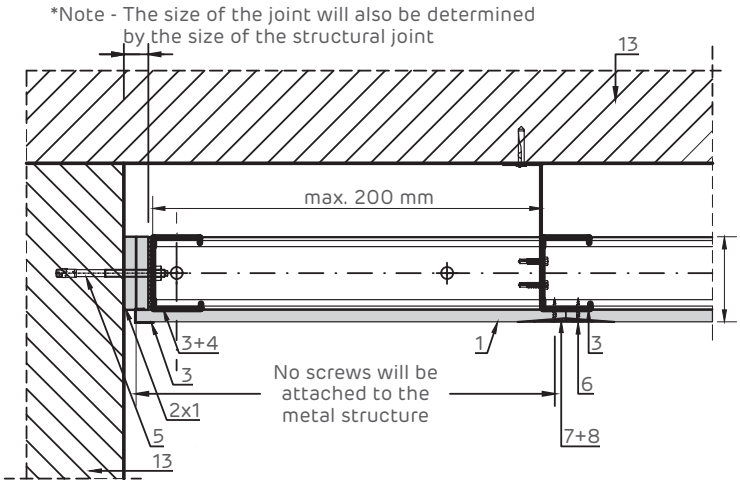
1. 1x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL2 + flat washer @ 500 mm
19. NIDA Metal UD30 end profile

Expansion joint Horizontal section.

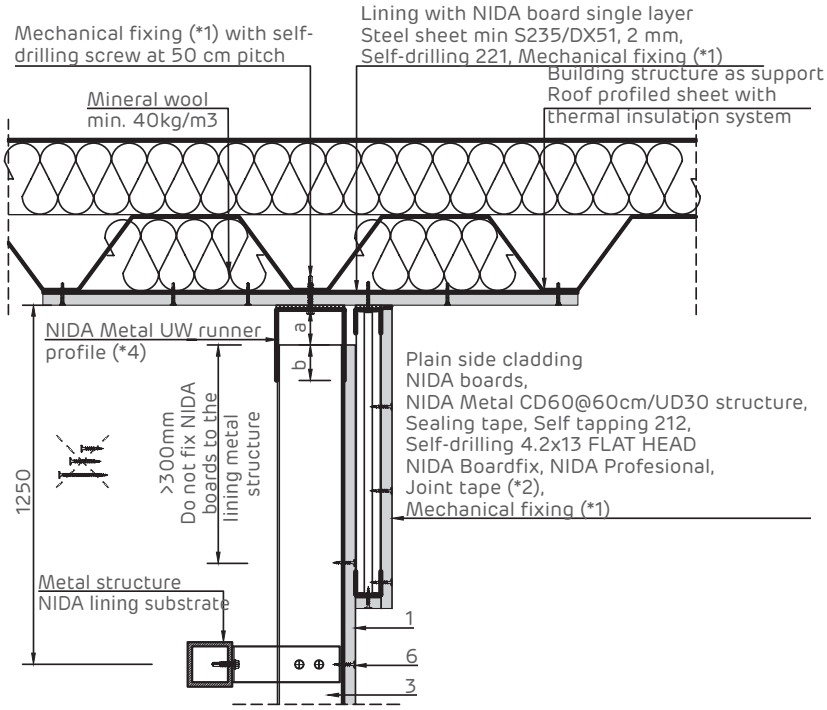


NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system; the joint should also be placed in front of structural joints.

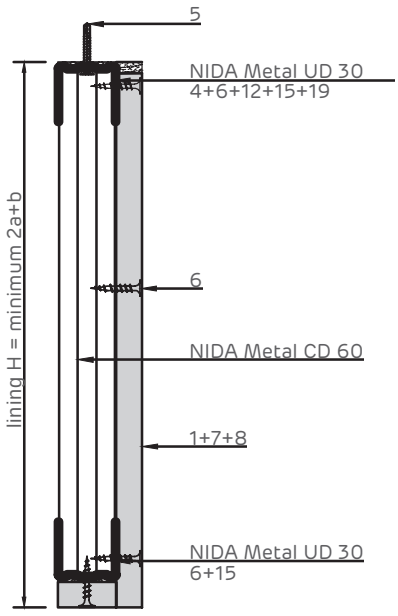
Sliding joint with sturdy items. Horizontal section.



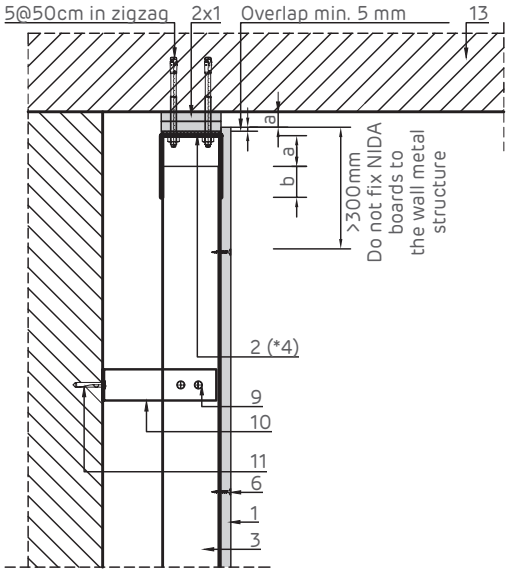
Detailed attachment at the top on the roof sheet. System parallel to the sheet ribs. Vertical section



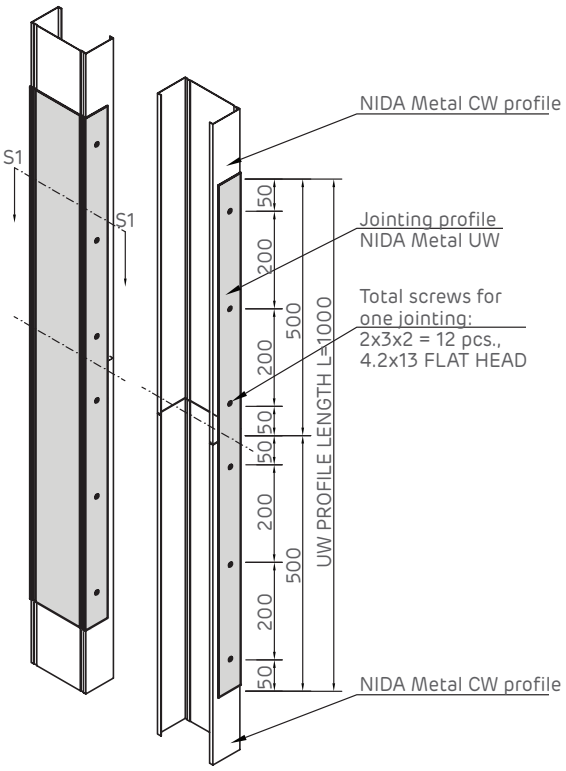
Detail of plain side lining. Vertical section



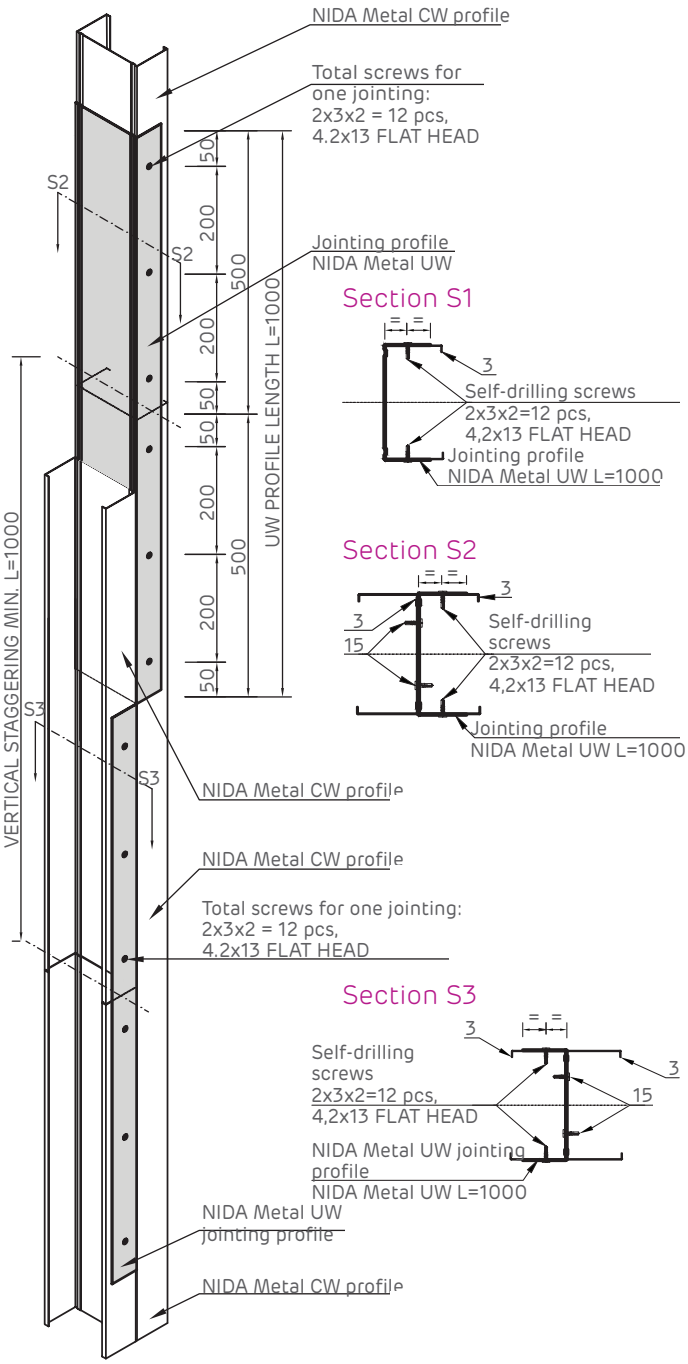
Sliding attachment detail at top on reinforced concrete members. Vertical section



Jointing detail of NIDA Metal CW single profiles.



Jointing detail of NIDA Metal CW double profiles.

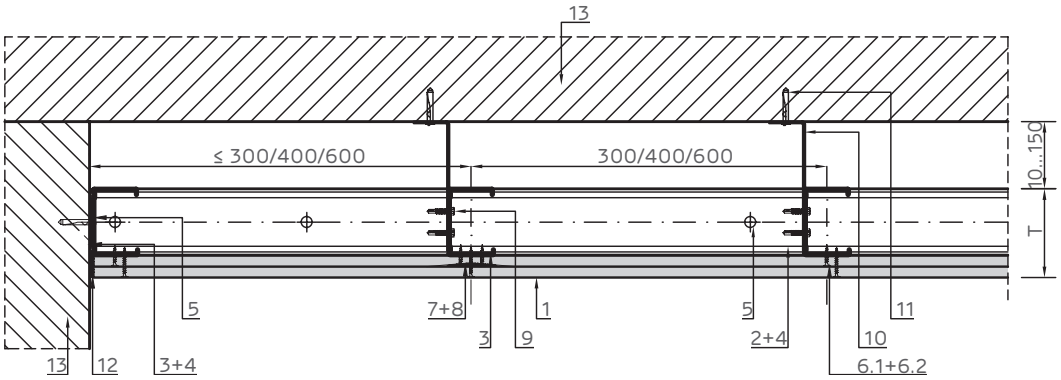


1. 1x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL2 + flat washer @ 500 mm
19. NIDA Metal UD30 end profile

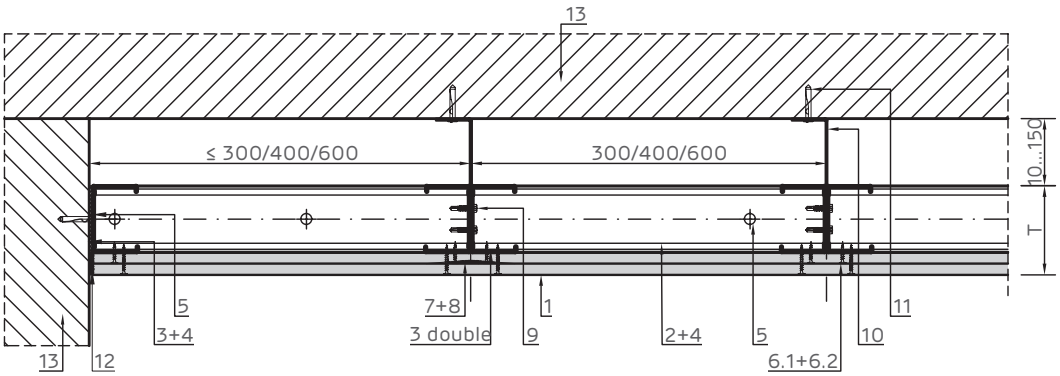
NIDA System T.CW.F

NIDA System T.CW.F double-layer **lining**
on NIDA Metal CW/UW structure, with intermediate fixing

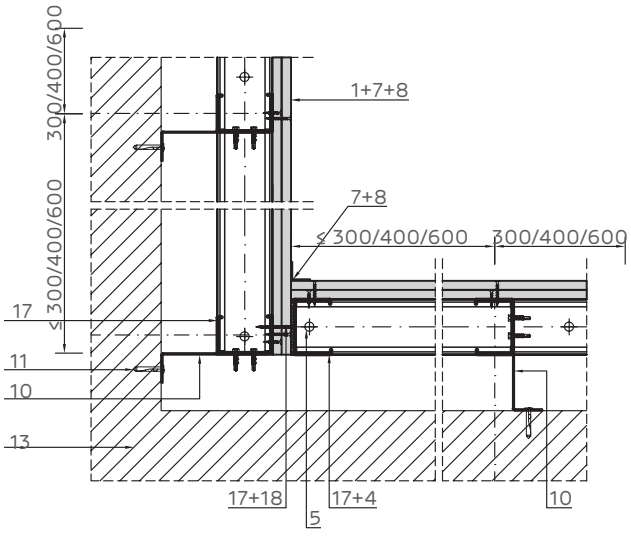
Attachment to stiff support. Horizontal section.



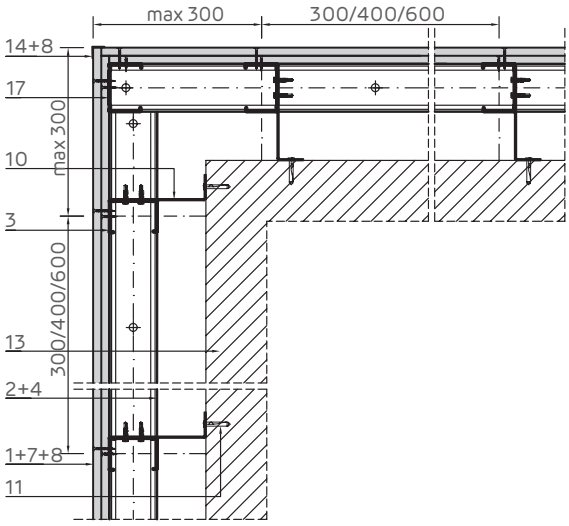
Attachment to stiff support.
Horizontal section - double upright



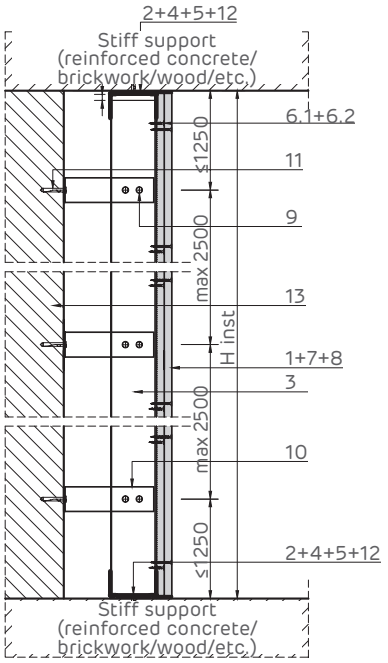
90° corner joint. Horizontal section.



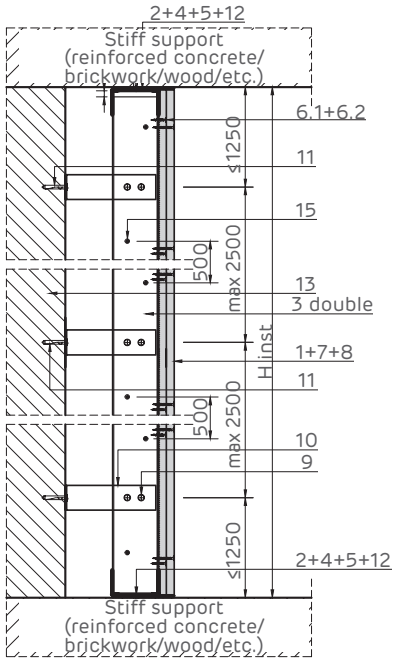
270° corner joint. Horizontal section.



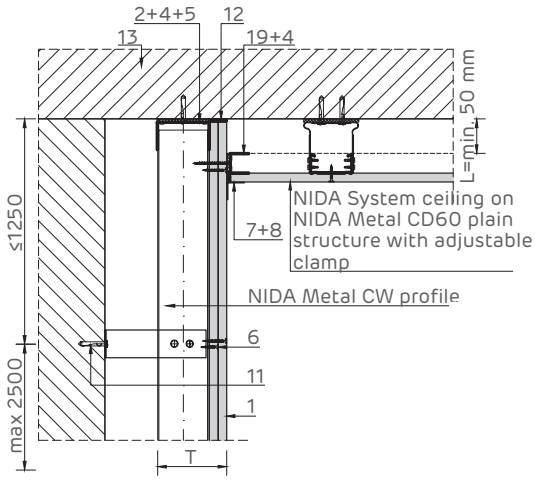
Attachment to stiff support. Vertical section



Attachment to stiff support. Vertical section - double upright

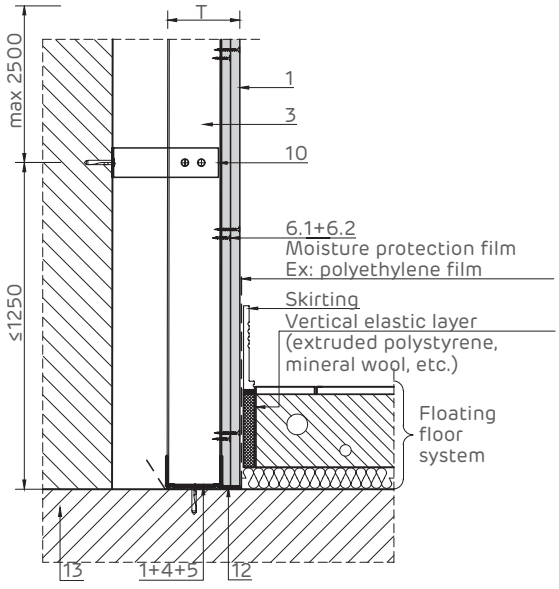


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section



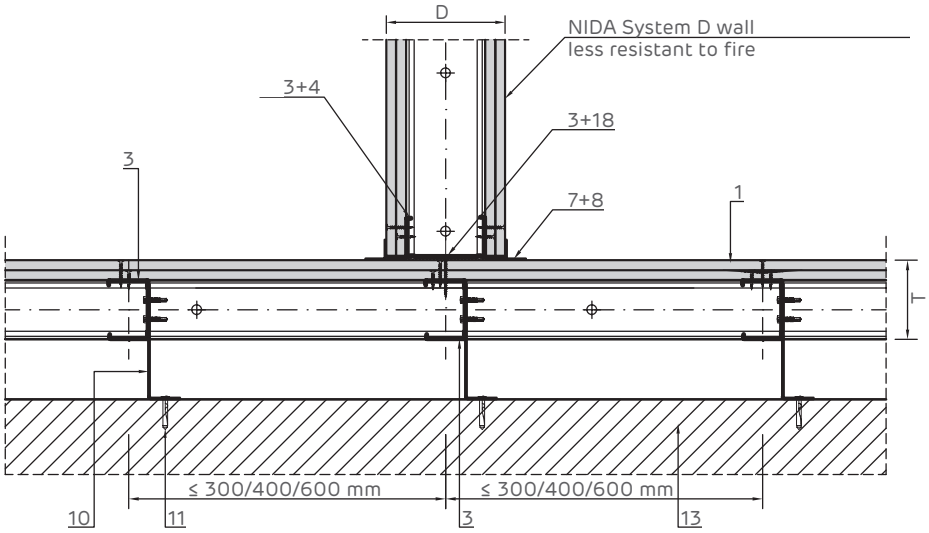
NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

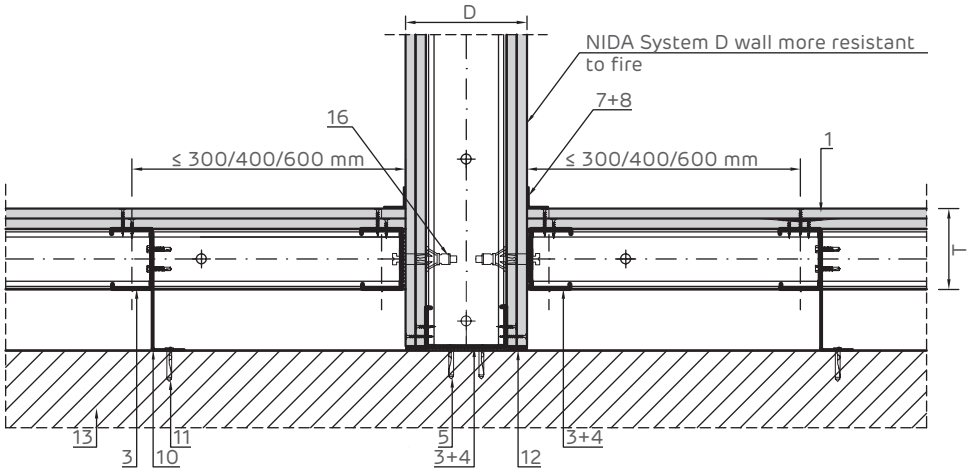


1. 2x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL3 + flat washer @500mm
19. NIDA Metal UD30 end profile

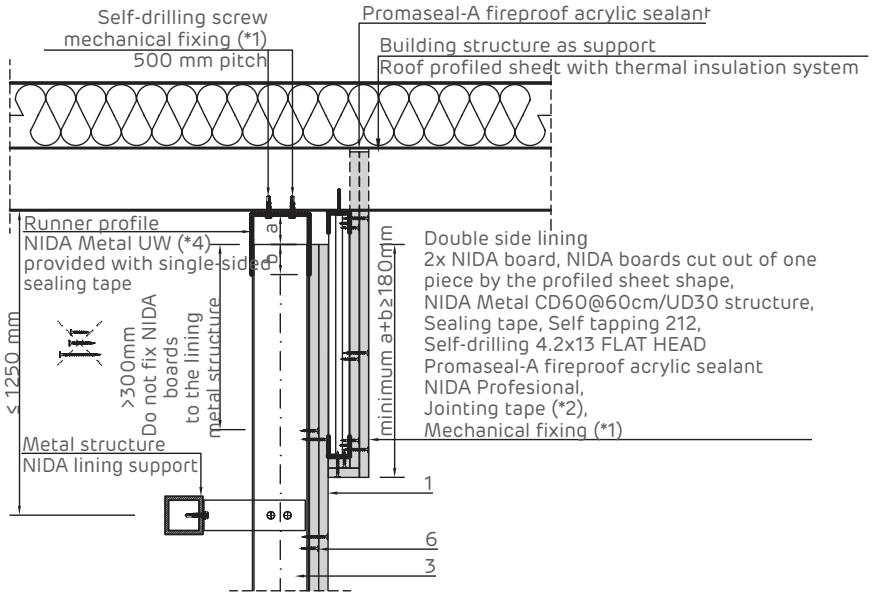
Crossing with D wall less resistant to fire
Horizontal section.



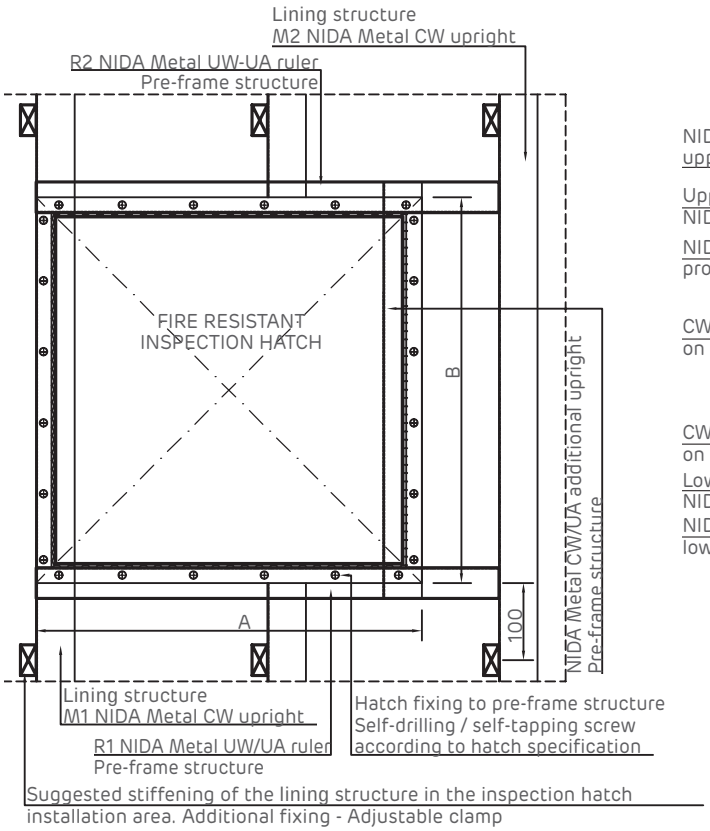
Crossing with D wall more resistant to fire
Horizontal section.



Detailed attachment at the top on the roof profiled sheet.
System perpendicular to the profiles. Vertical section



Access hatch elevation.

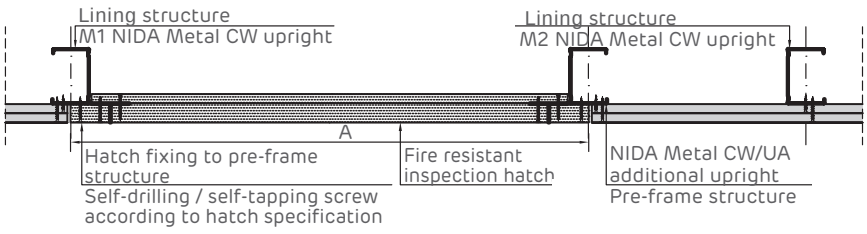


NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

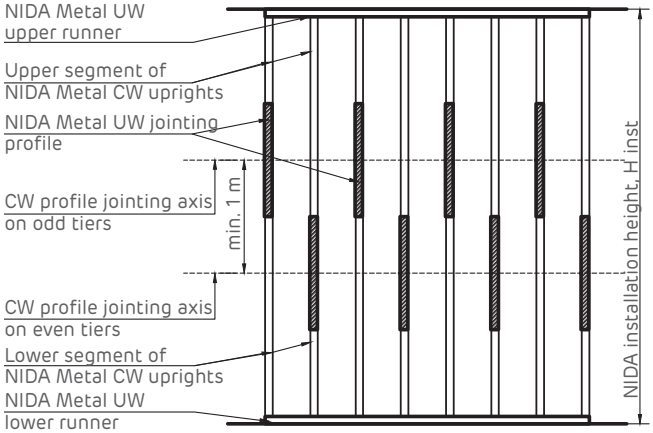
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch.

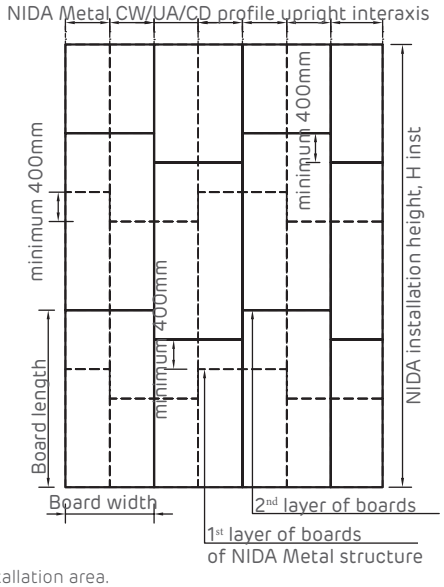


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.

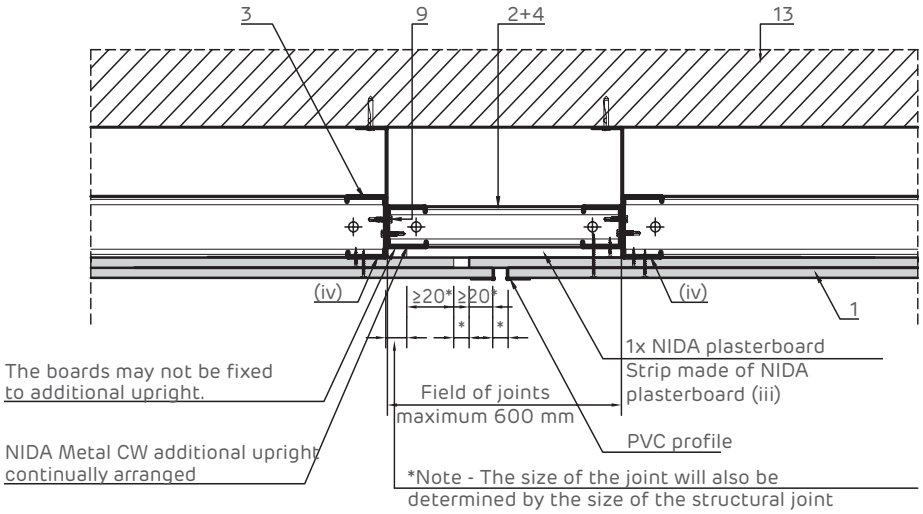


Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



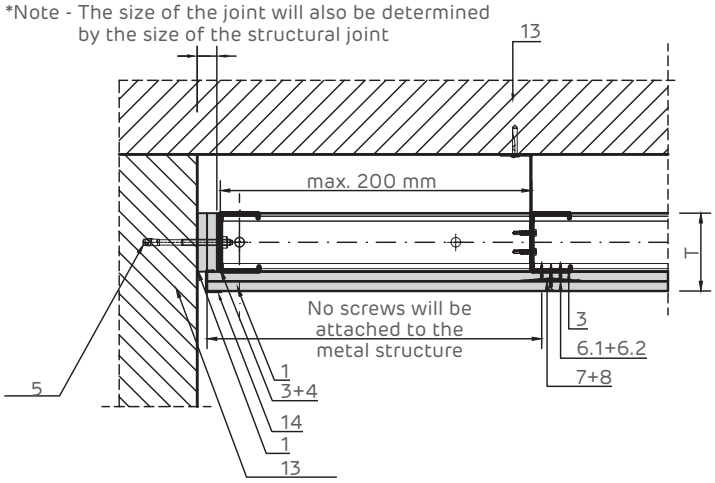
1. 2x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL3 + flat washer @500mm
19. NIDA Metal UD30 end profile

Expansion joint Horizontal section.

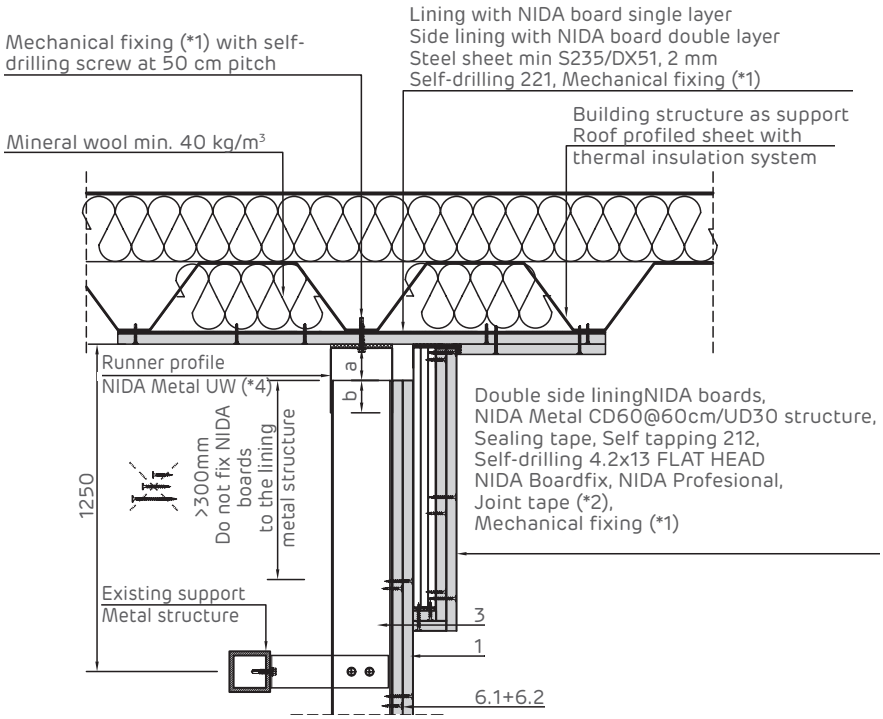


NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system; the joint should also be placed in front of structural joints.

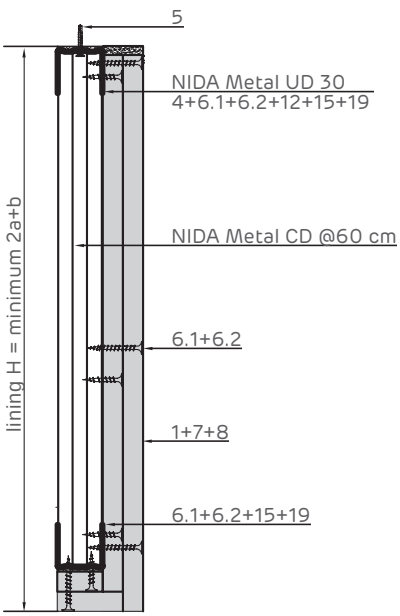
Sliding joint with sturdy items. Horizontal section.



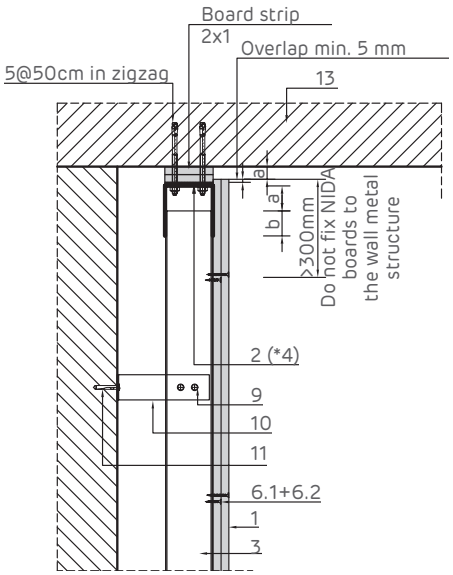
Detailed attachment at the top on the roof profiled sheet. System parallel to the sheet ribs. Vertical section



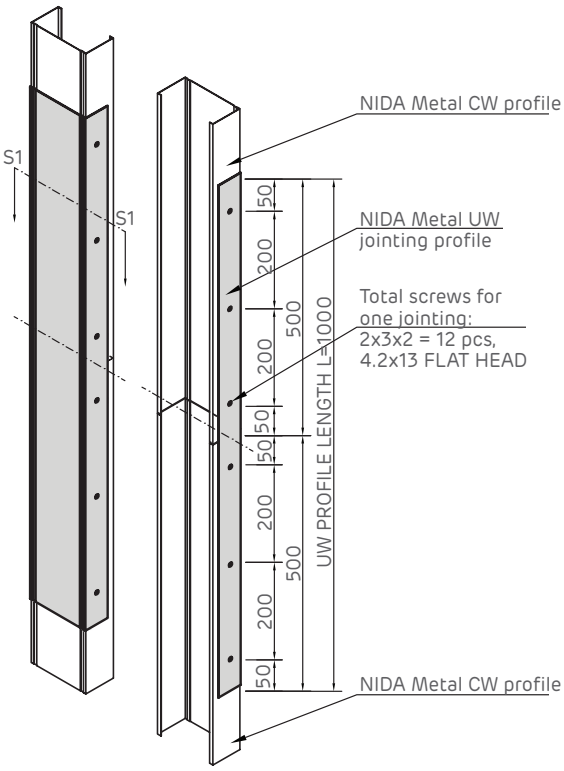
Detail of double side lining. Vertical section



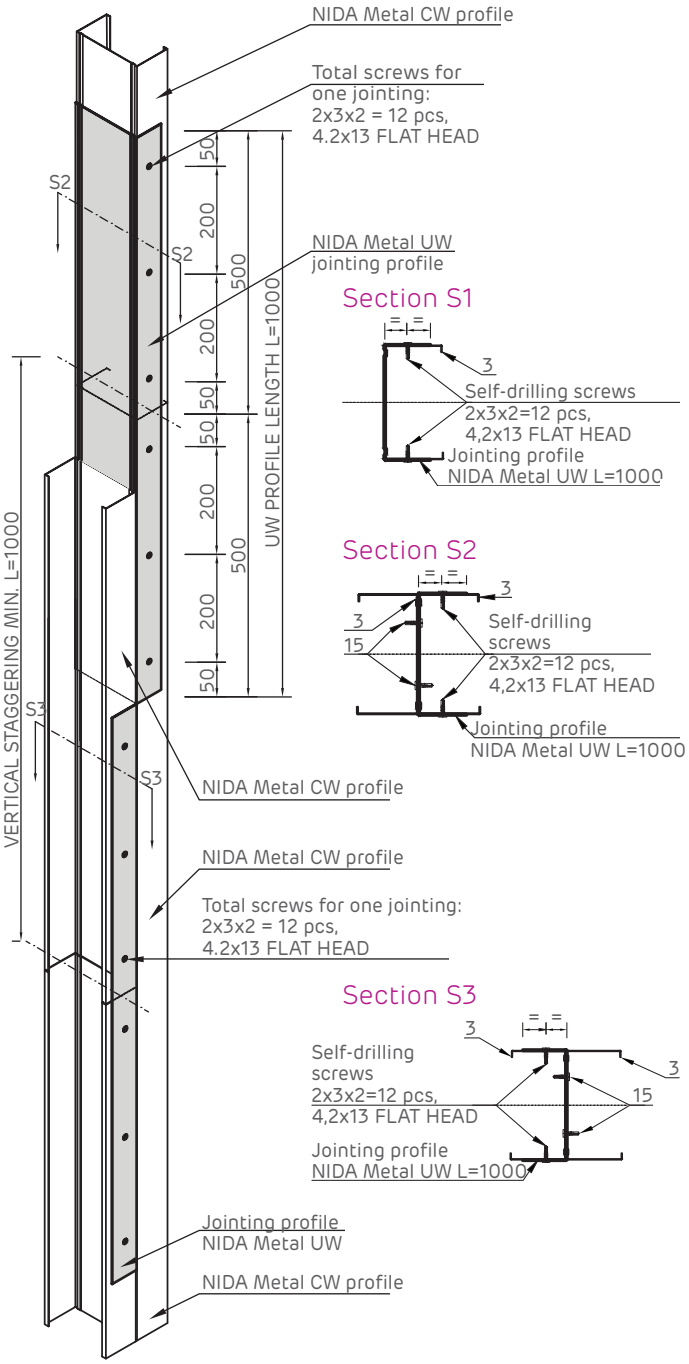
Sliding attachment detail at top on reinforced concrete members. Vertical section



Jointing detail of NIDA Metal CW single profiles.



Jointing detail of NIDA Metal CW doubled profiles.

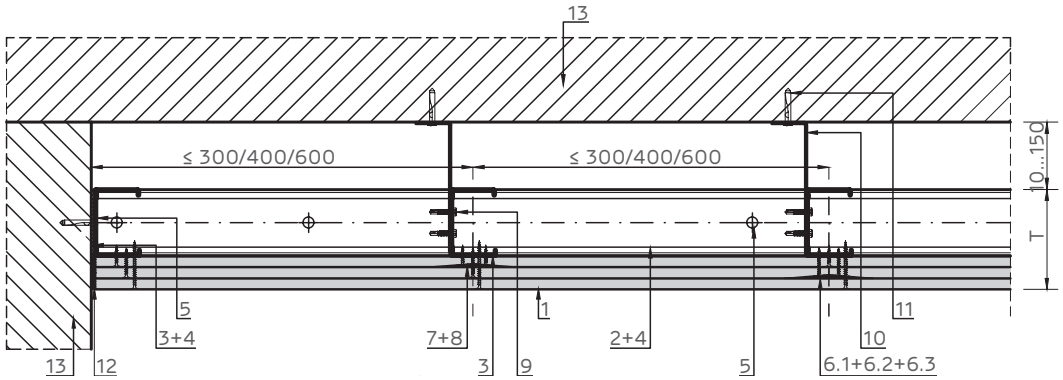


1. 2x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL3 + flat washer @500mm
19. NIDA Metal UD30 end profile

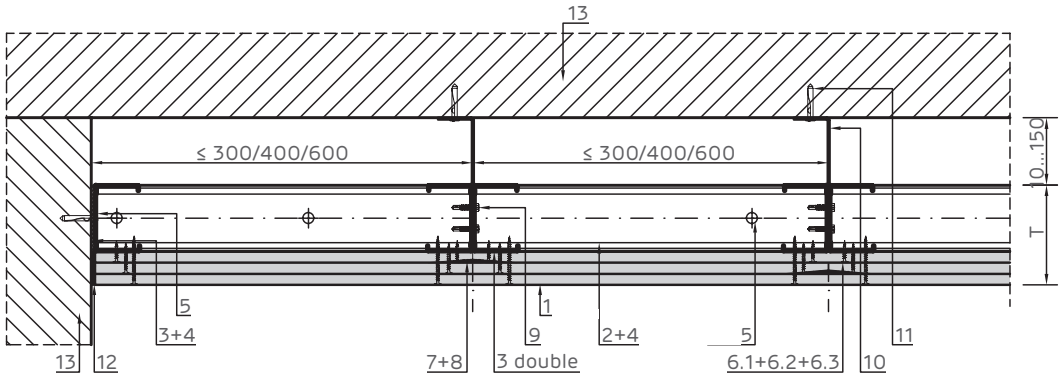
NIDA System T.CW.F

NIDA System T.CW.F triple-layer **lining** on NIDA Metal CW/UW structure, with intermediate fixing

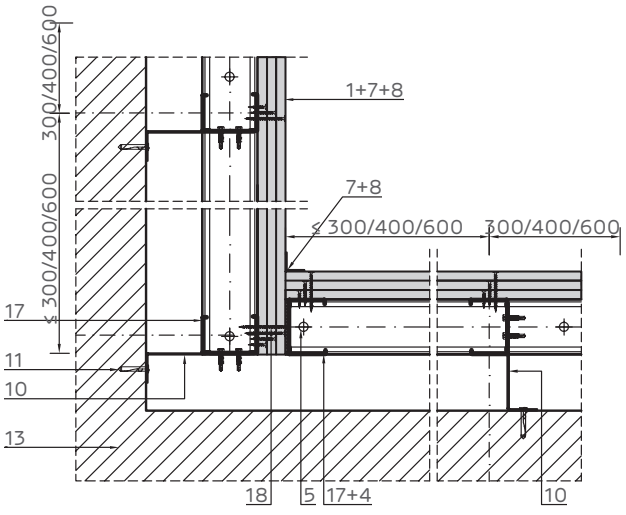
Attachment to stiff support. Horizontal section.



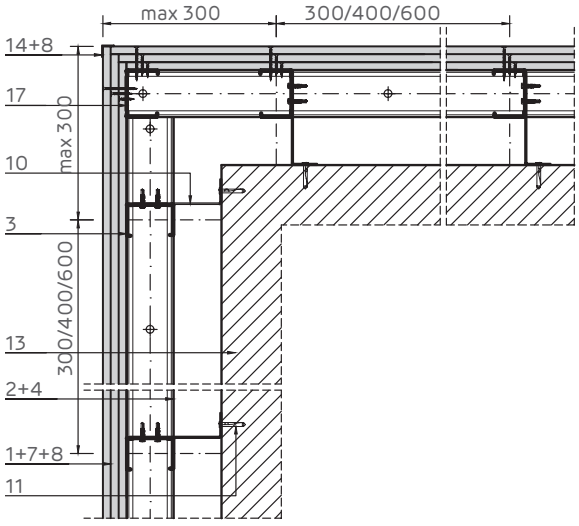
Attachment to stiff support. Horizontal section - double upright



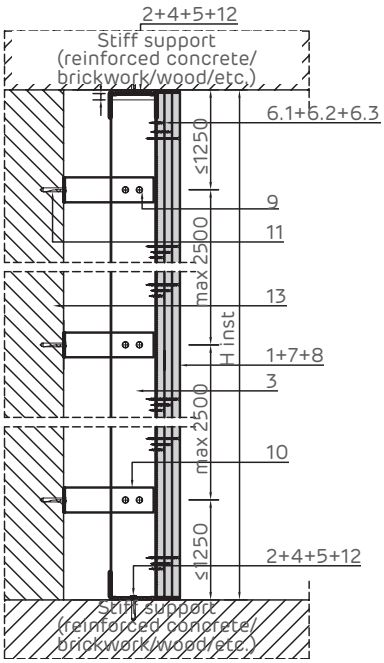
90° corner joint. Horizontal section.



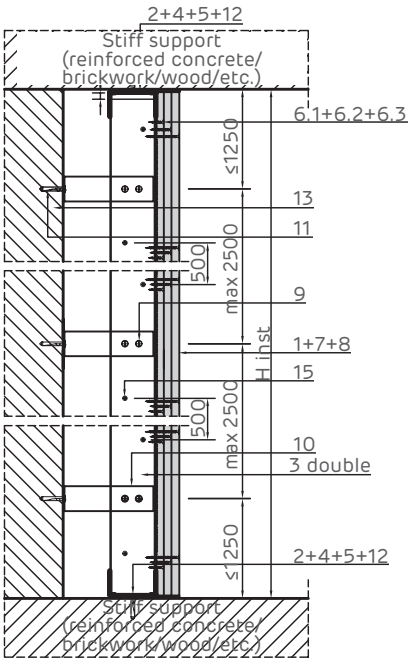
270° corner joint. Horizontal section.



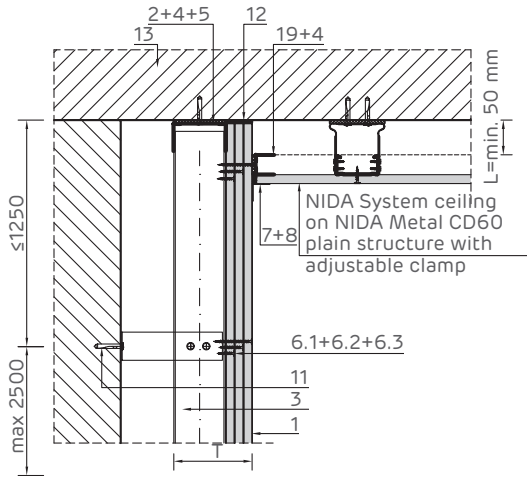
Attachment to stiff support. Vertical section



Attachment to stiff support. Vertical section - double upright

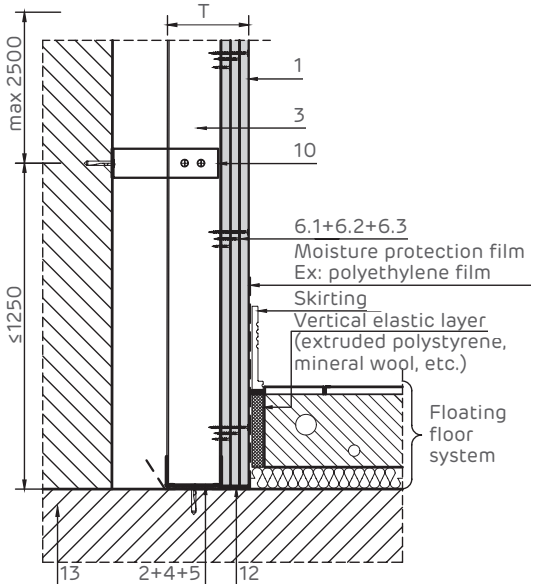


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section



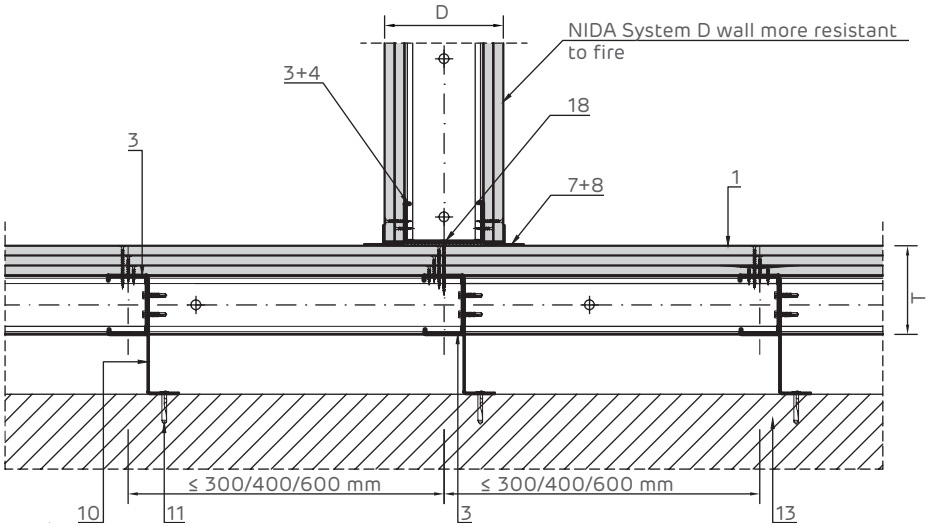
NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

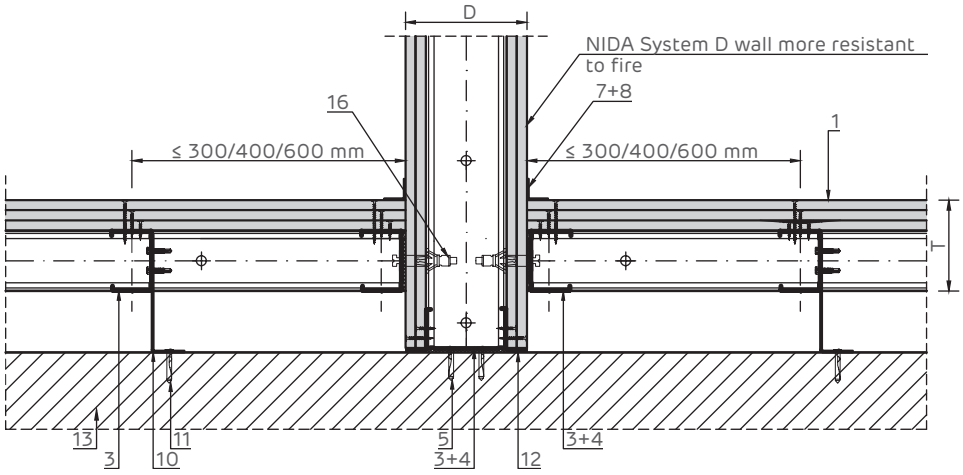


1. 3x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL4 + flat washer @500mm
19. NIDA Metal UD30 end profile

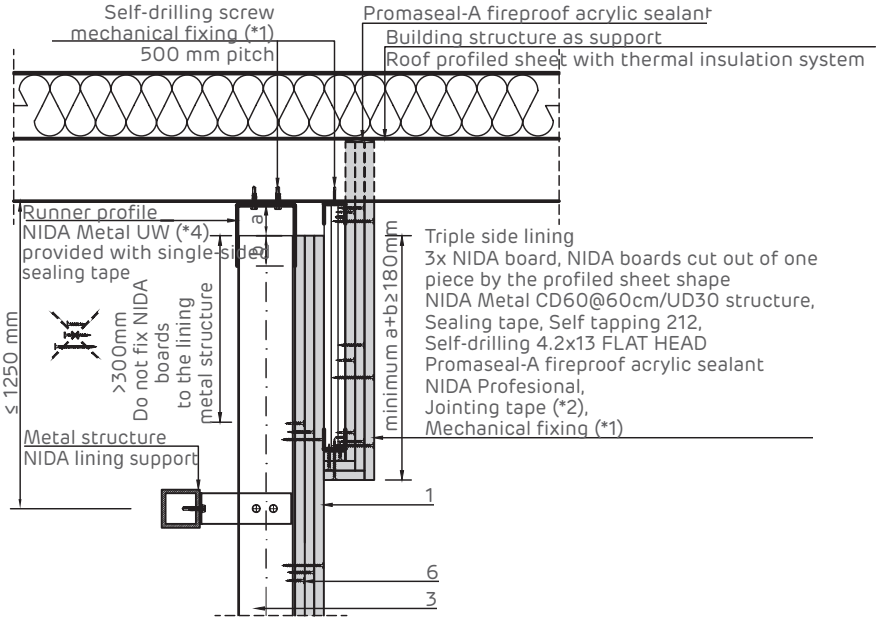
Crossing with D wall less resistant to fire
Horizontal section.



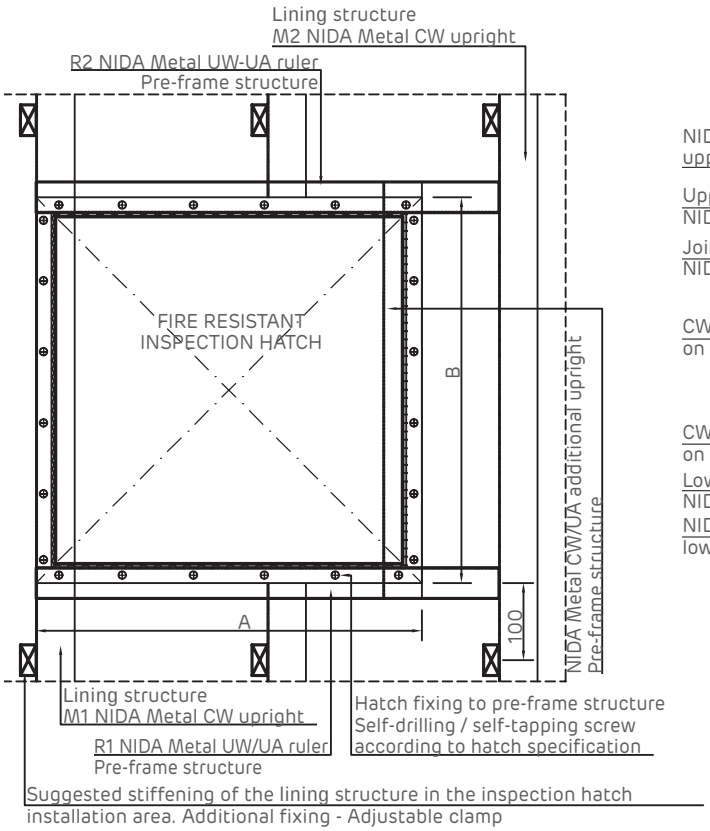
Crossing with D wall more resistant to fire
Horizontal section.



Detailed attachment at the top on the roof profiled sheet
System perpendicular to the profiles. Vertical section



Access hatch elevation.

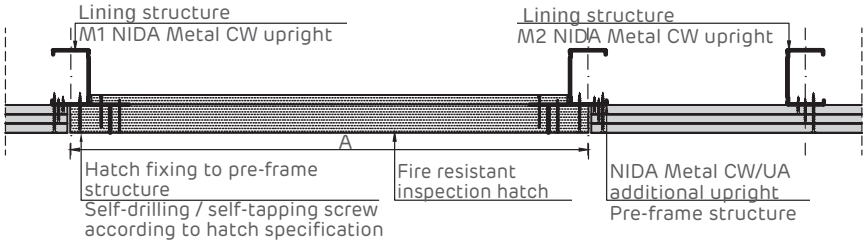


NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

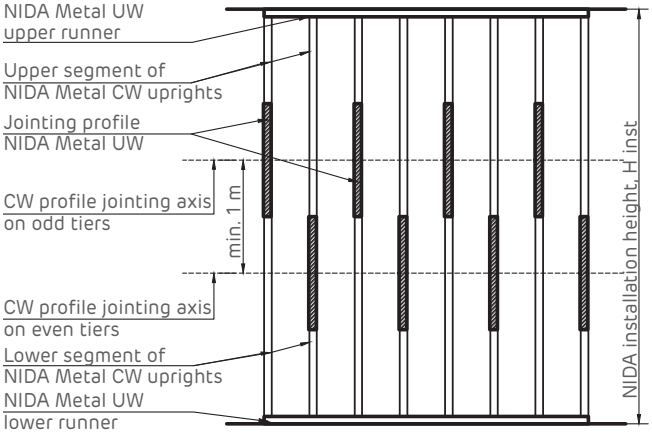
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch

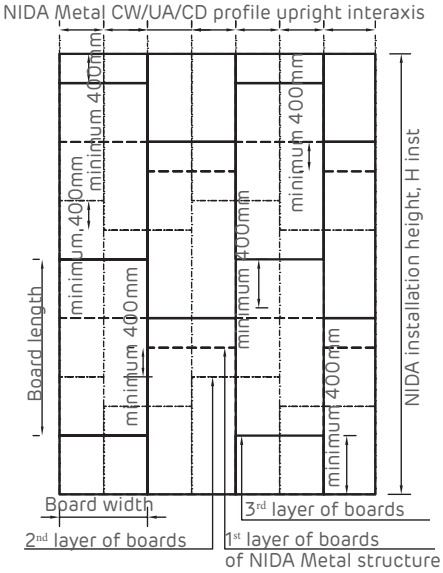


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.

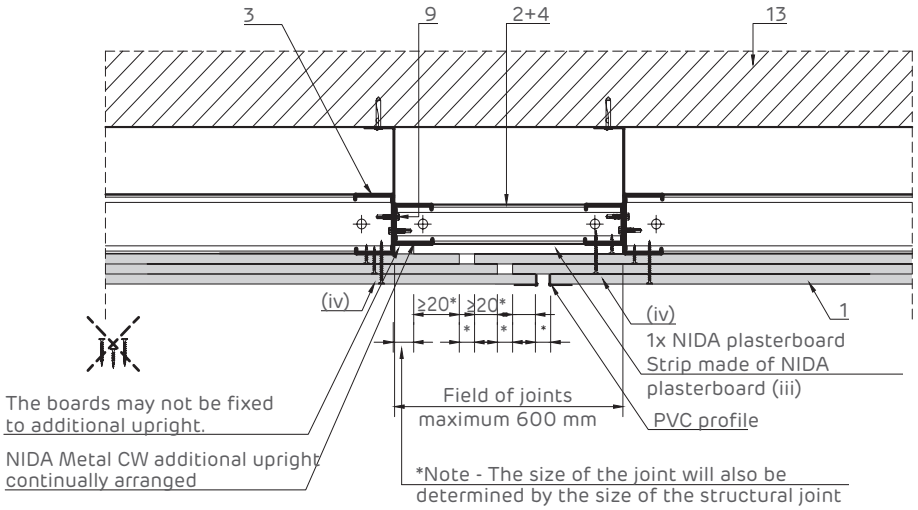


Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



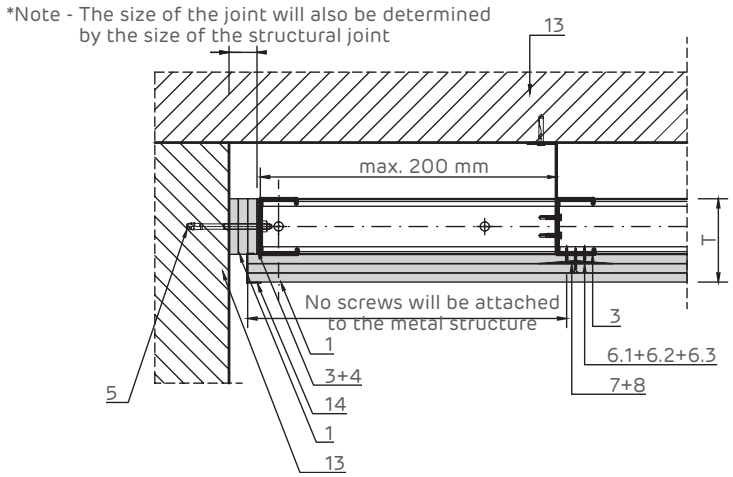
1. 3x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL4 + flat washer @500mm
19. NIDA Metal UD30 end profile

Expansion joint Horizontal section.

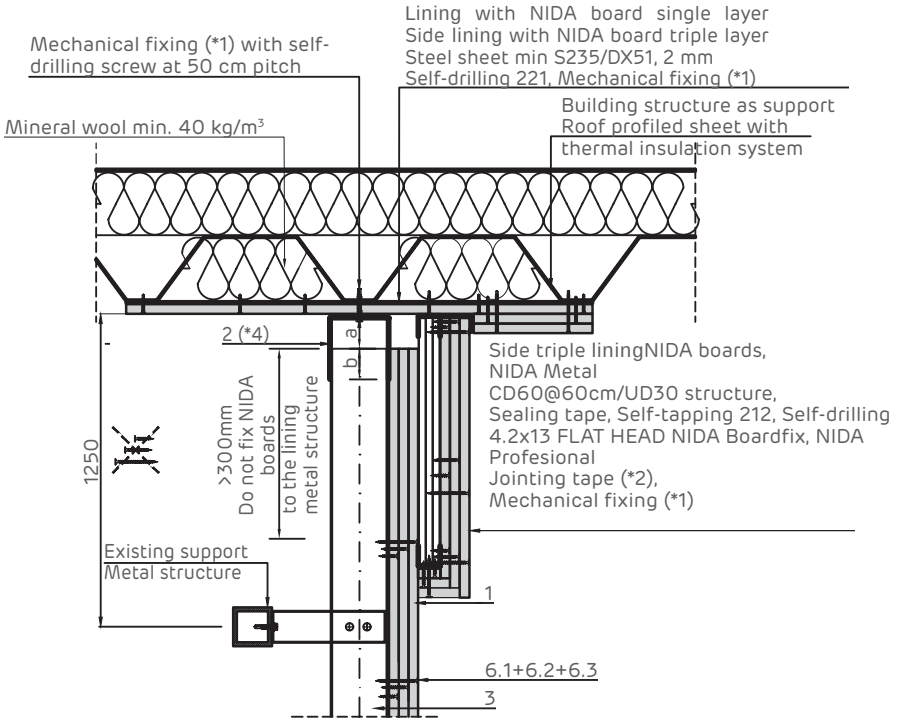


NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system; the joint should also be placed in front of structural joints.

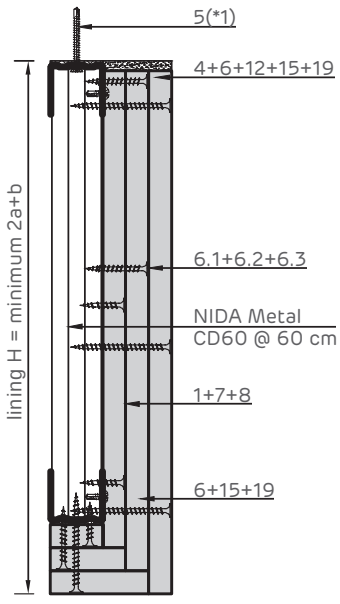
Sliding joint with sturdy items. Horizontal section.



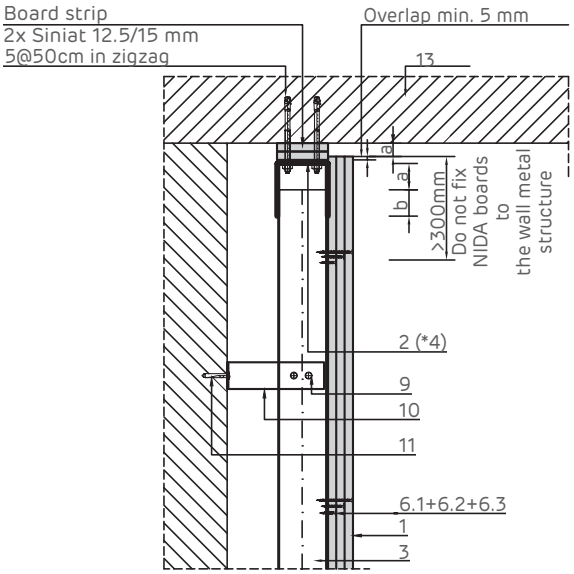
Detailed attachment at the top on the roof profiled sheet System parallel to the sheet ribs. Vertical section



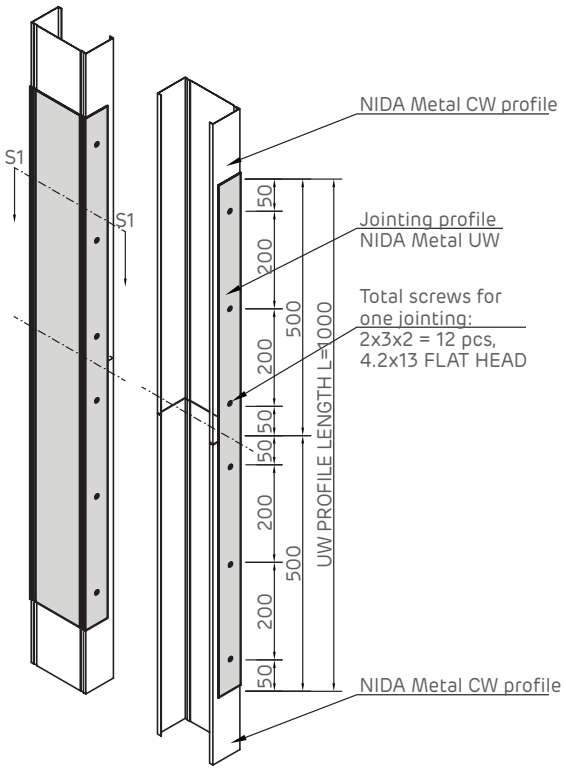
Detail of double side lining. Vertical section



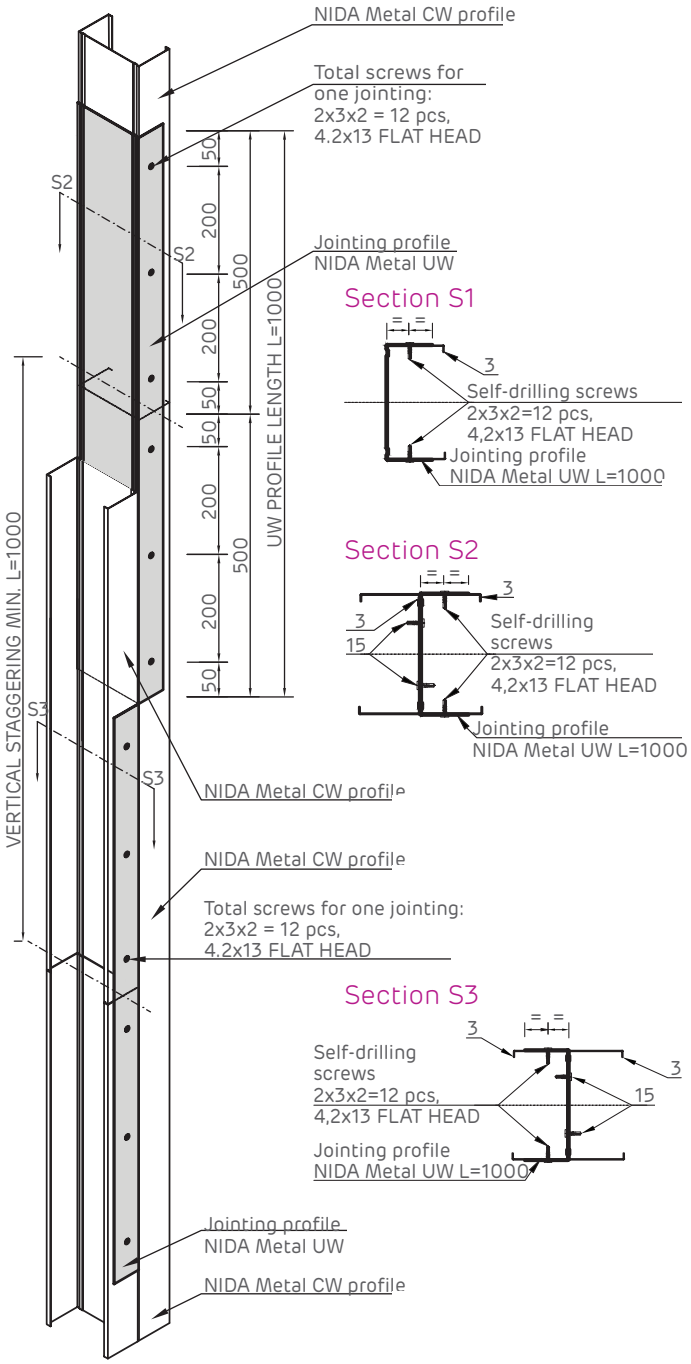
Sliding attachment detail at top on reinforced concrete members. Vertical section



Jointing detail of NIDA Metal CW single profiles.



Jointing detail of NIDA Metal CW double profiles.

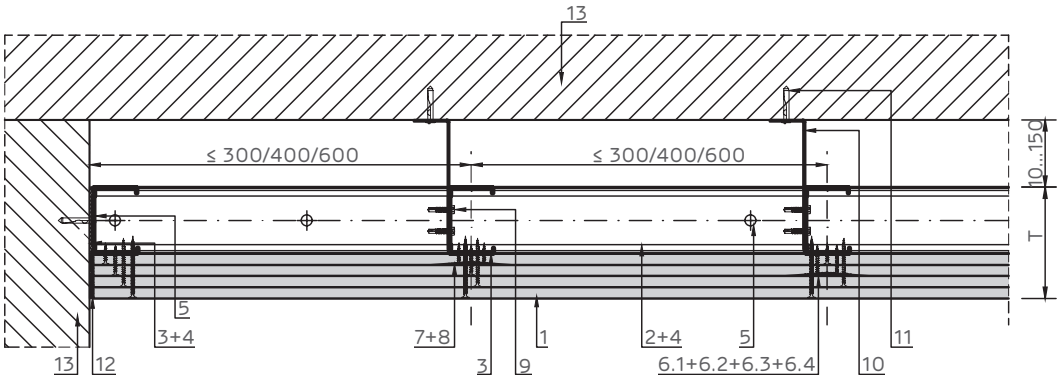


1. 3x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL4 + flat washer @500mm
19. NIDA Metal UD30 end profile

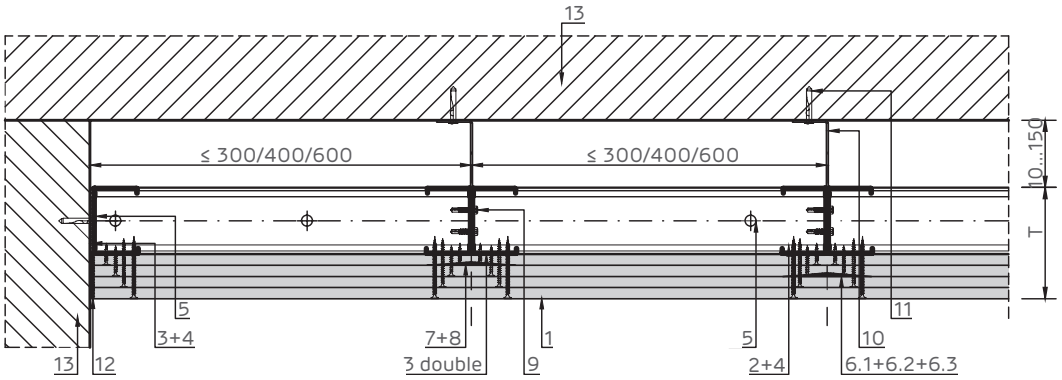
NIDA System T.CW.F

NIDA System T.CW.F four-layer **lining**
on NIDA Metal CW/UW structure, with intermediate fixing

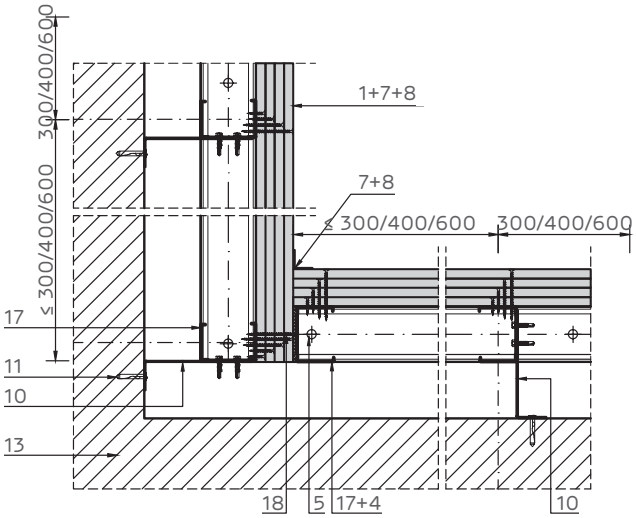
Attachment to stiff support. Horizontal section.



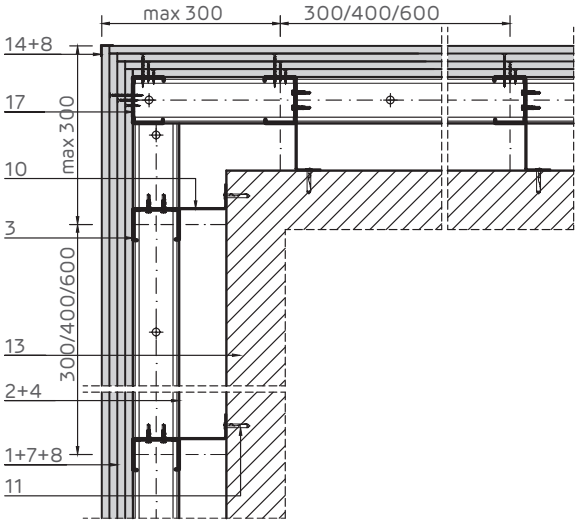
Attachment to stiff support.
Horizontal section - double upright



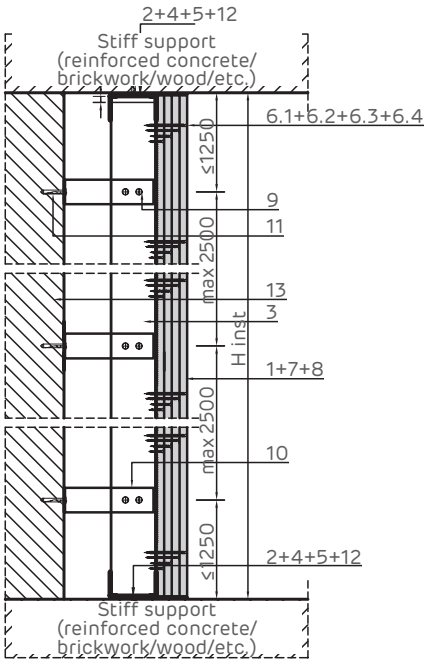
90° corner joint. Horizontal section.



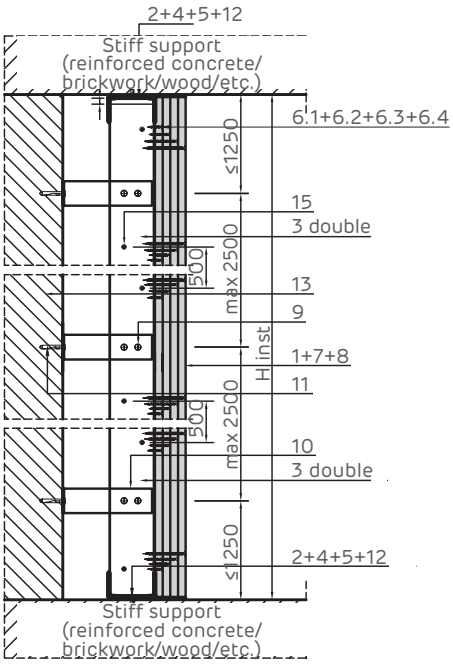
270° corner joint. Horizontal section.



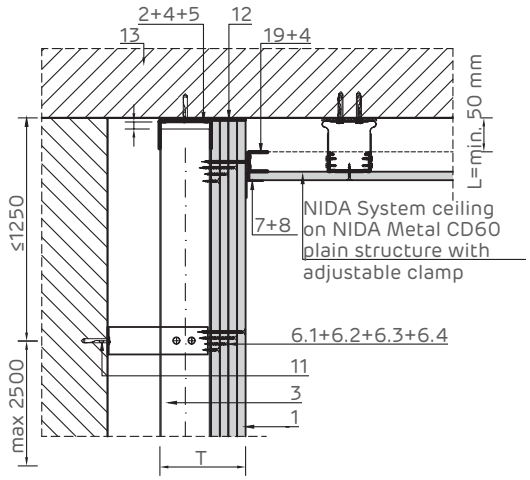
Attachment to stiff support. Vertical section



Attachment to stiff support. Vertical section - double upright

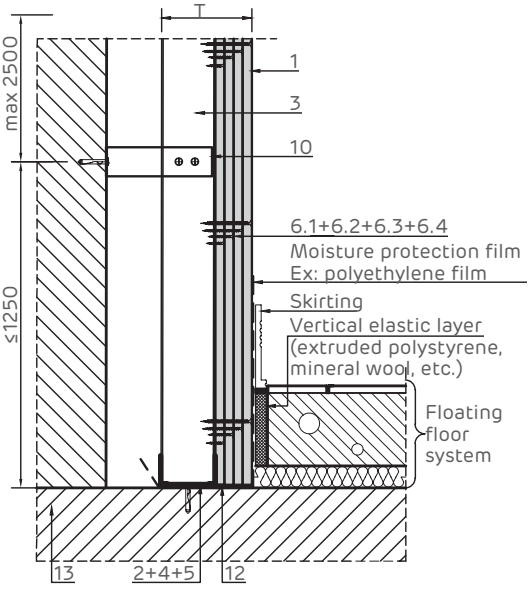


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section



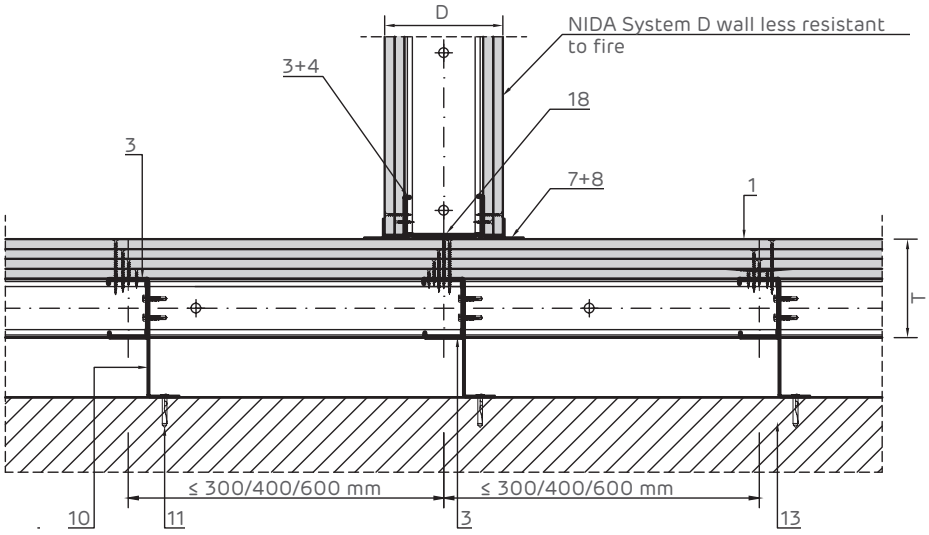
NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

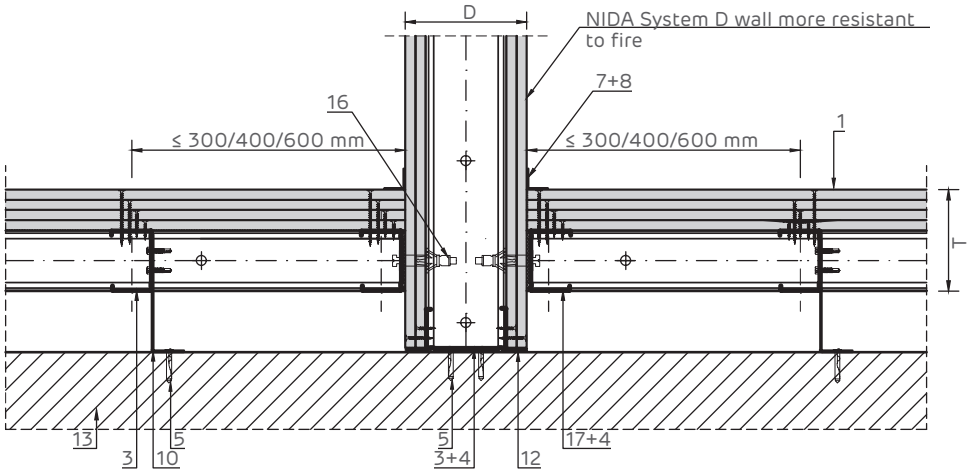


1. 4x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 600
   6.4 Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

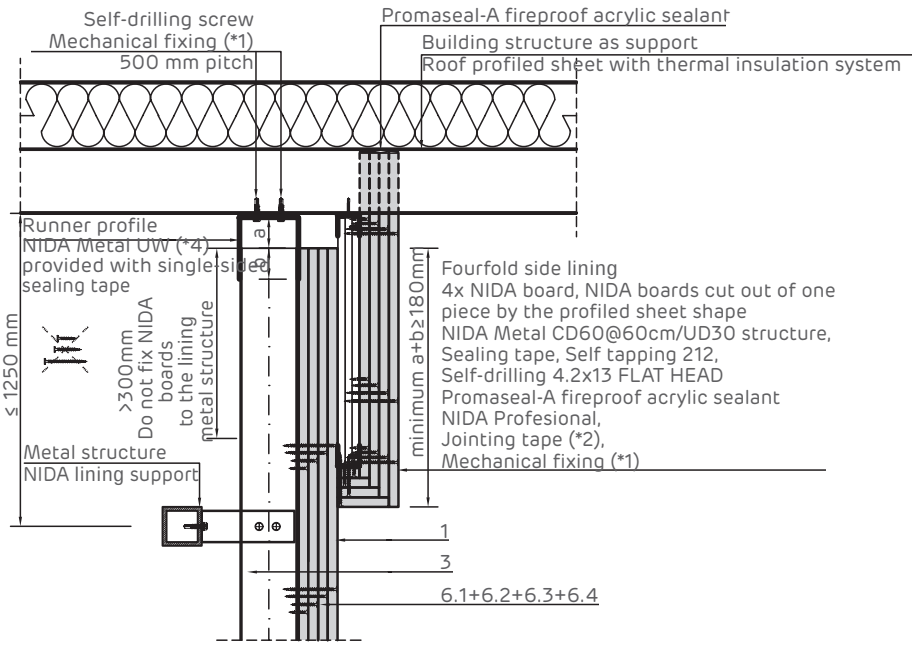
Crossing with D wall less resistant to fire
Horizontal section.



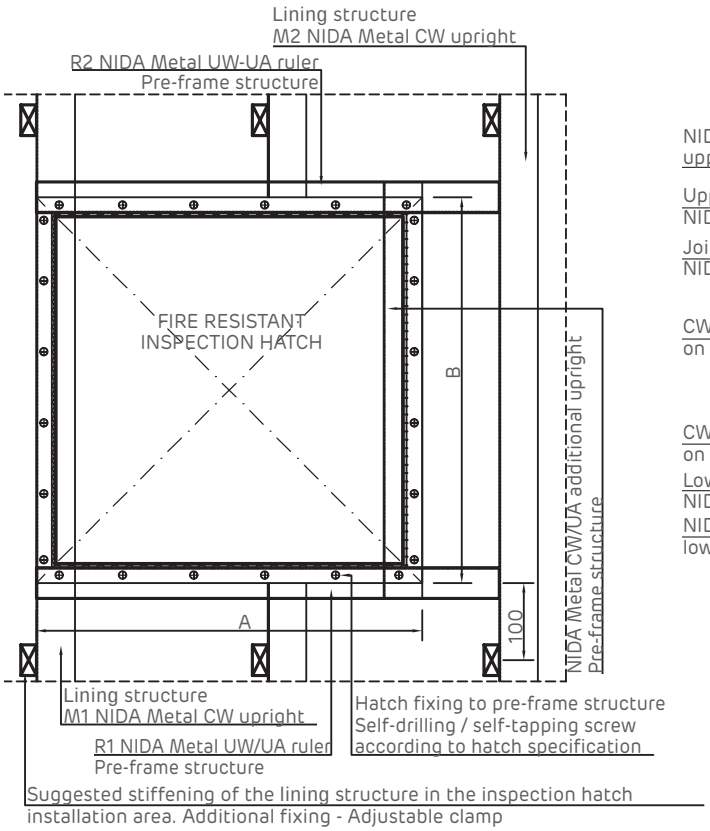
Crossing with D wall more resistant to fire
Horizontal section.



Detailed attachment at the top on the roof profiled sheet.
System perpendicular to the profiles. Vertical section



Access hatch elevation.

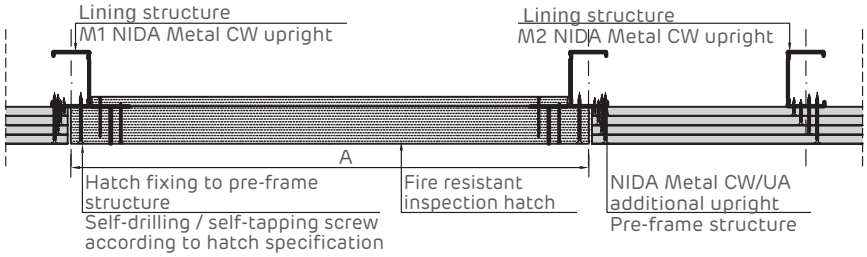


NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

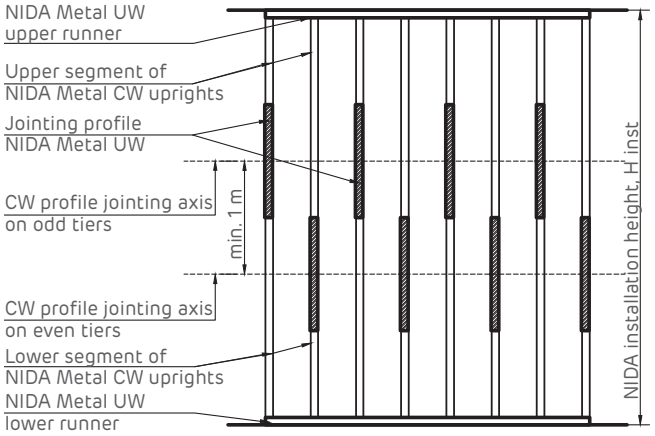
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch

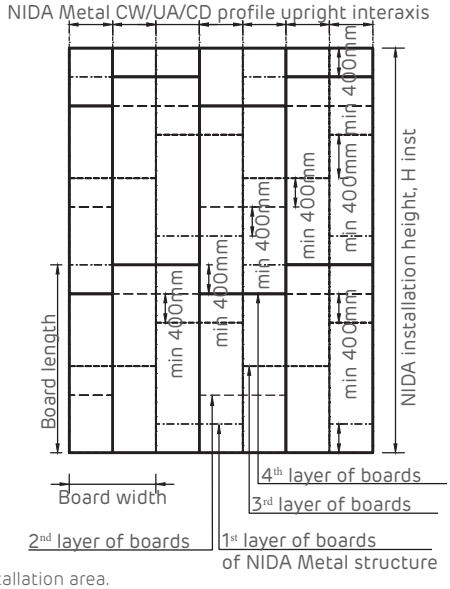


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.
It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.

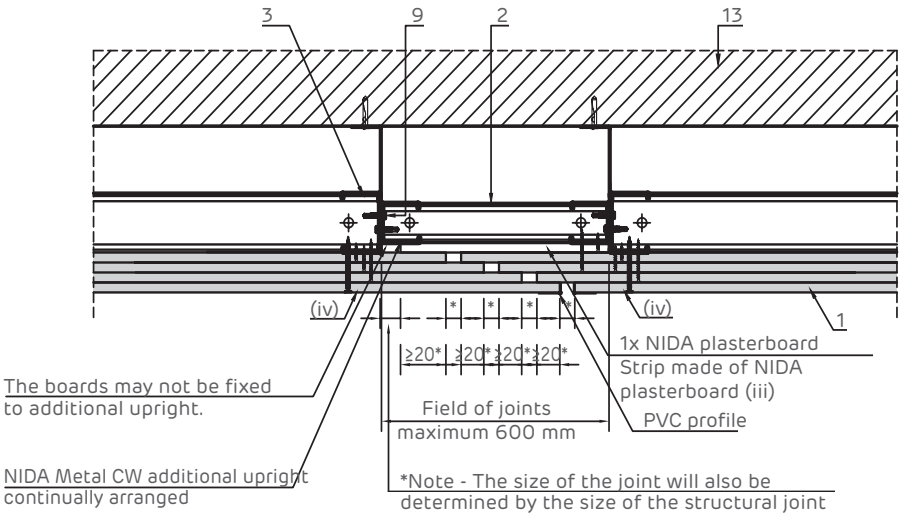


Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



1. 4x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 600
6.4 Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

Expansion joint Horizontal section.

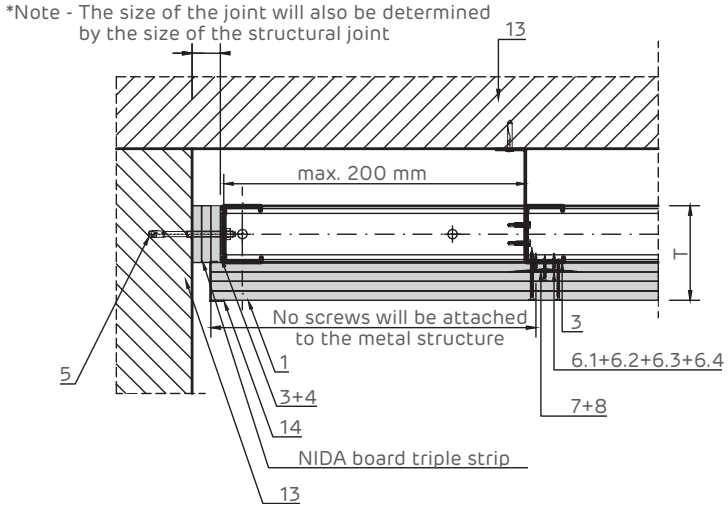


NOTE:

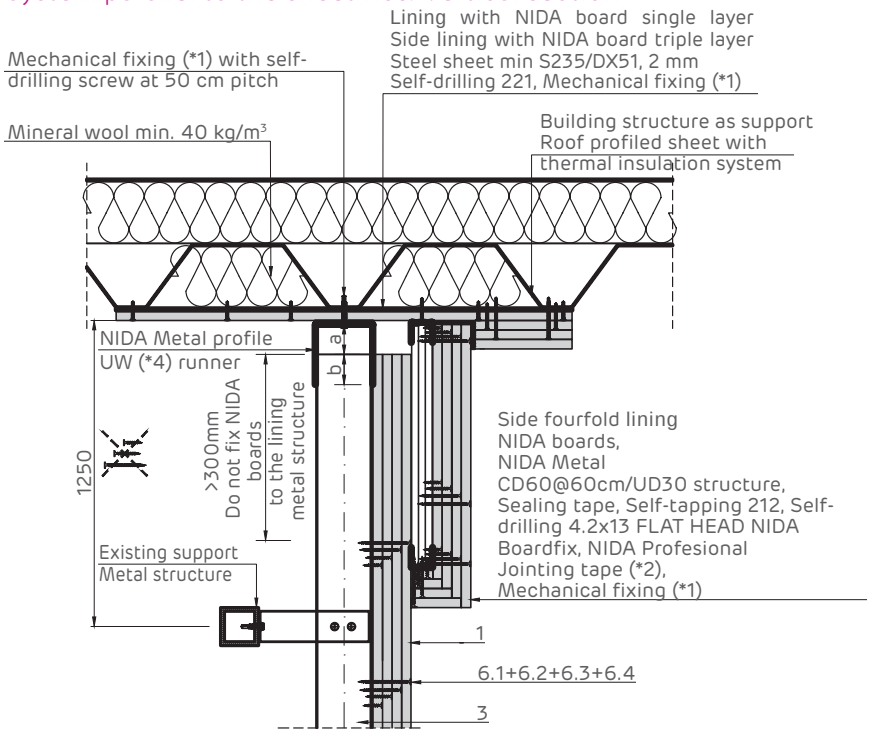
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.

(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system; the joint should also be placed in front of structural joints.

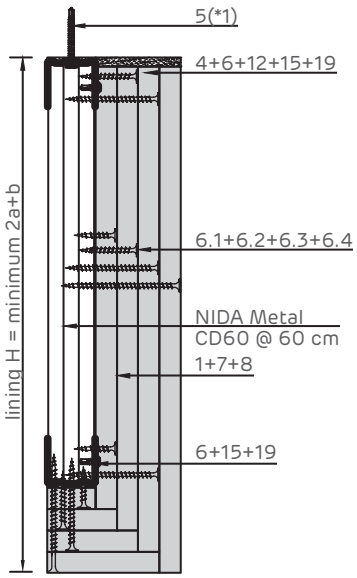
Sliding joint with sturdy items. Horizontal section.



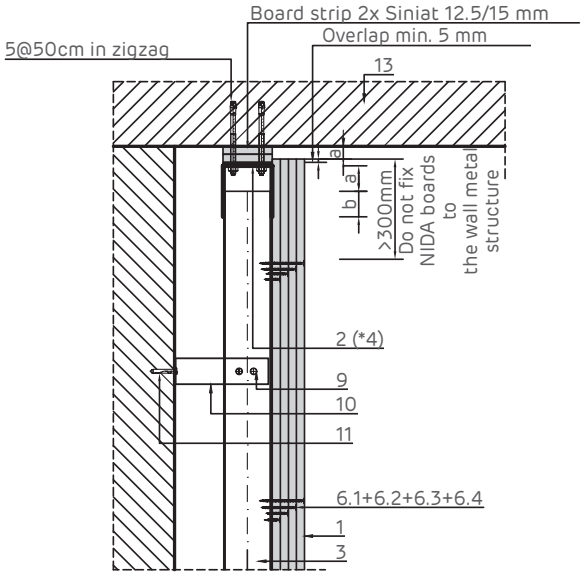
Detailed attachment at the top on the roof profiled sheet. System parallel to the sheet ribs. Vertical section



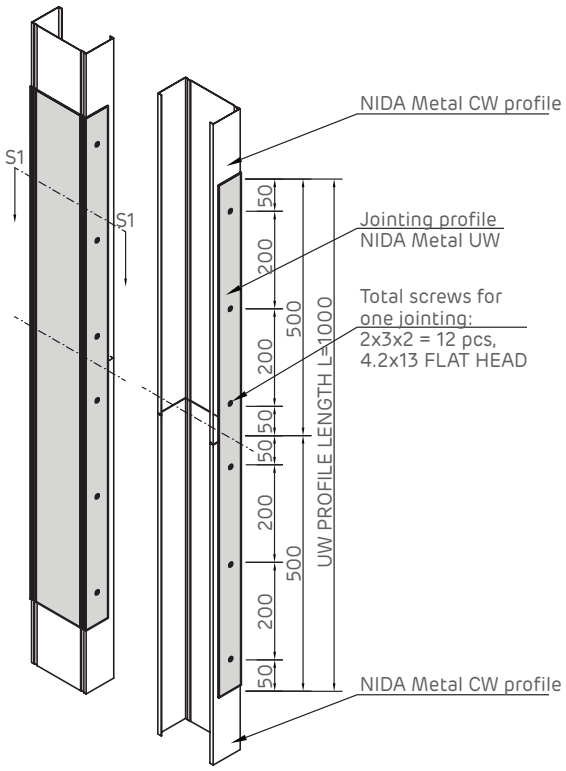
Detail of double side lining. Vertical section



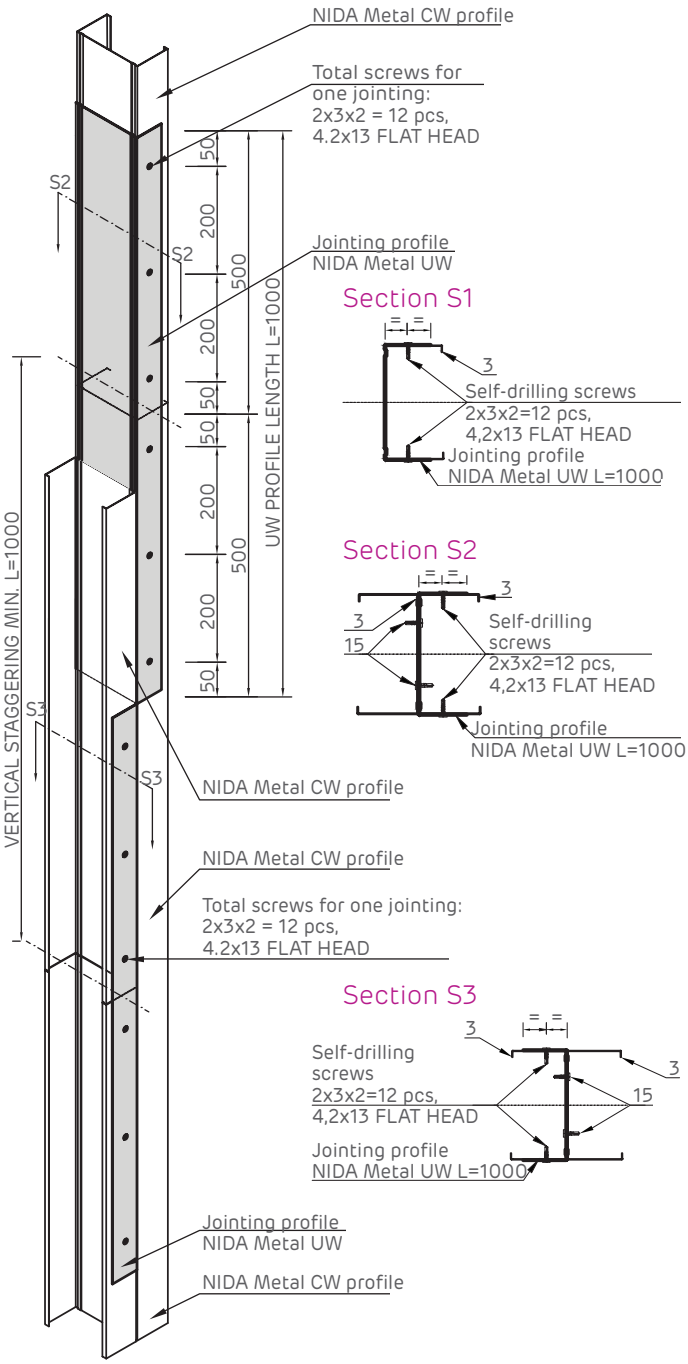
Sliding attachment detail at top on reinforced concrete members. Vertical section



Jointing detail of NIDA Metal CW single profiles.



Jointing detail of NIDA Metal CW double profiles.

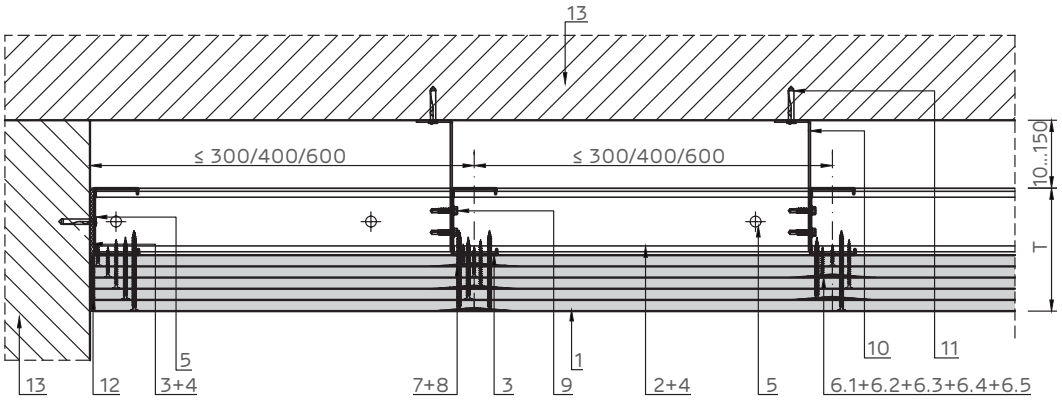


1. 4x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
6. 6.2 Self-tapping screw 212xL2 @ 600
6. 6.3 Self-tapping screw 212xL3 @ 600
6. 6.4 Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

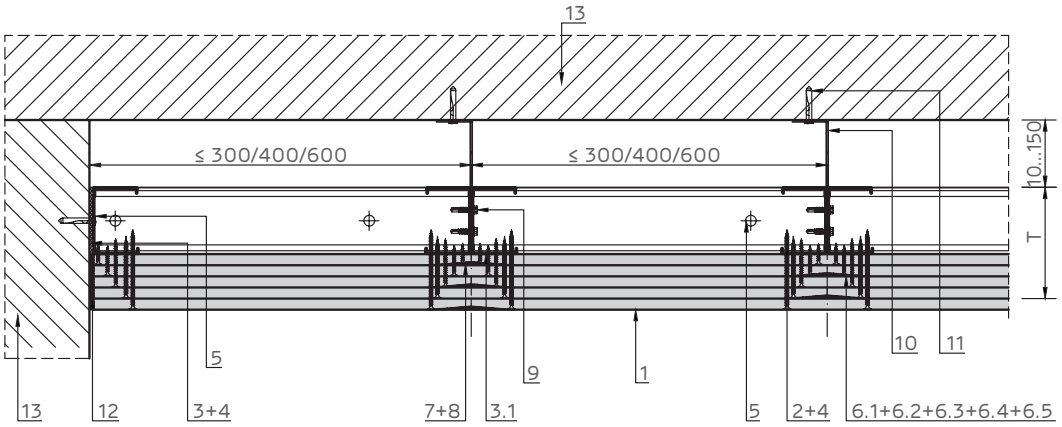
NIDA System T.CW.F

NIDA System T.CW.F five-layer **lining**
on NIDA Metal CW/UW structure, with intermediate fixing

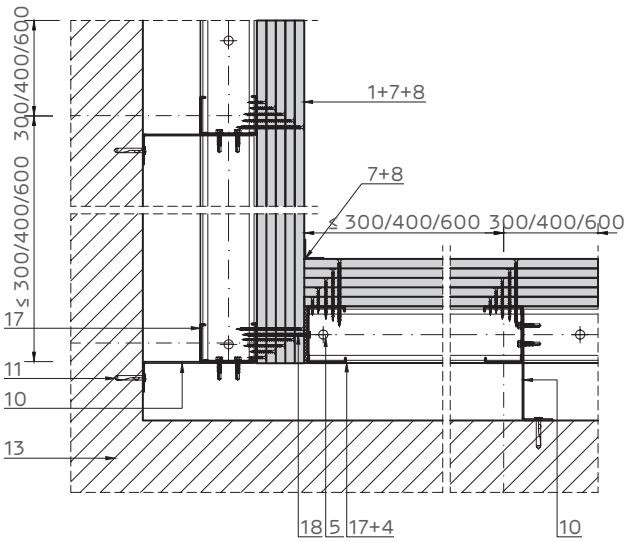
Attachment to stiff support. Horizontal section.



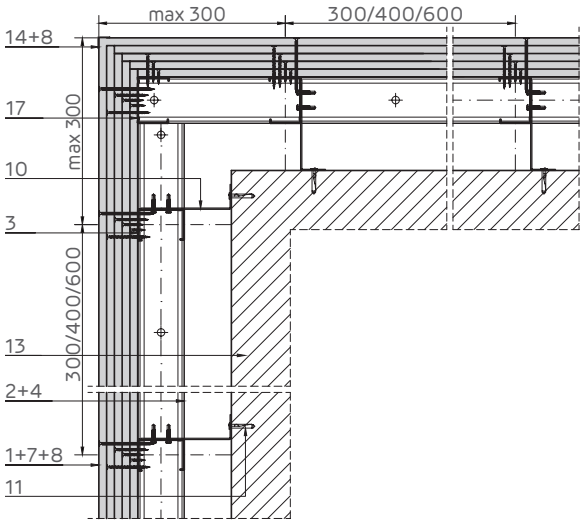
Attachment to stiff support.
Horizontal section - double upright



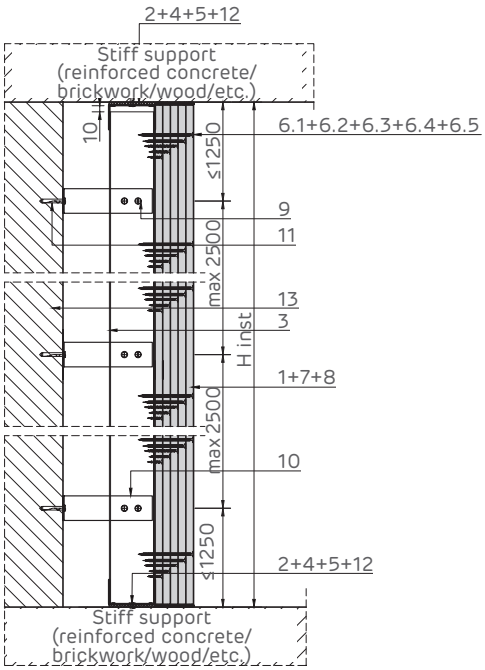
90° corner joint. Horizontal section.



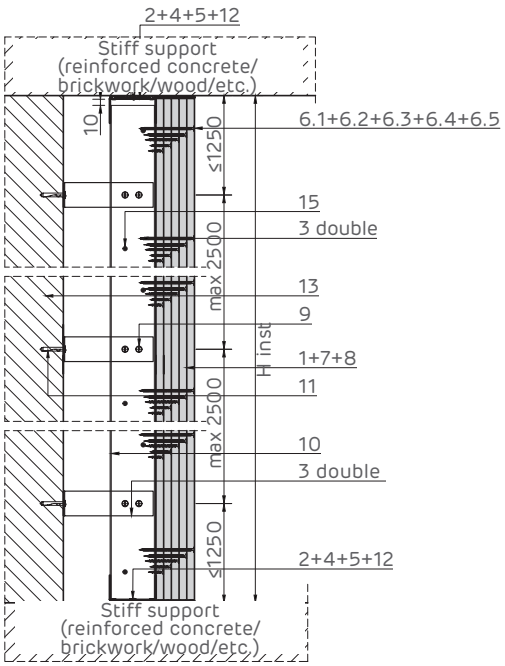
270° corner joint. Horizontal section.



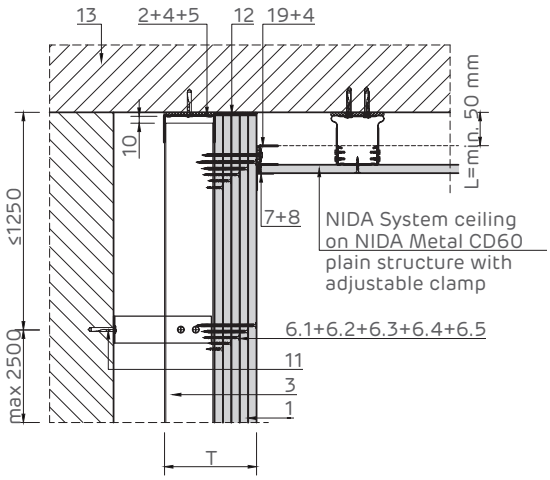
Attachment to stiff support. Vertical section



Attachment to stiff support. Vertical section - double upright

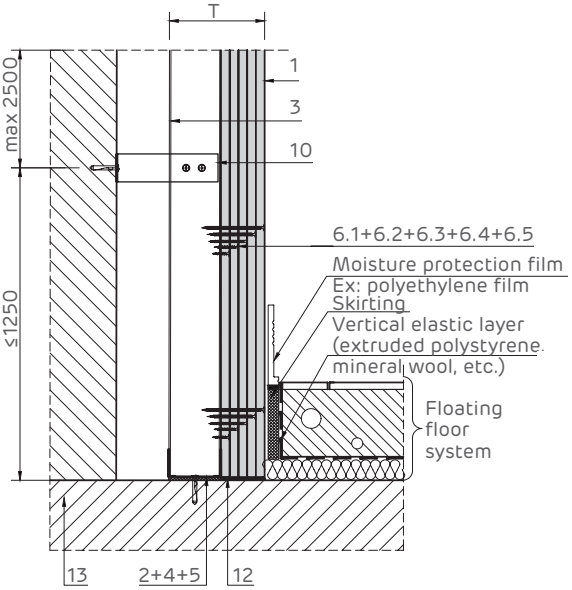


Detailed crossing with suspended ceiling on plain structure with adjustable clamp. Vertical section



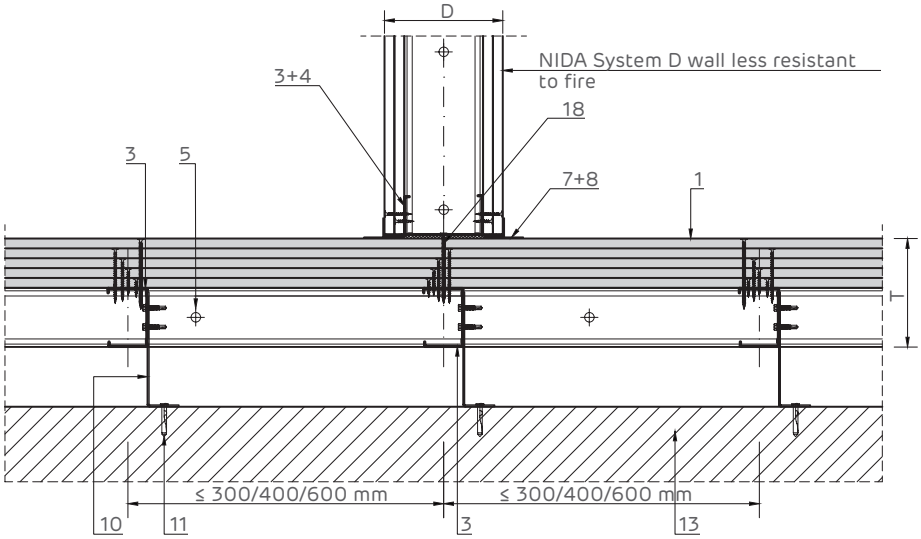
NOTE:
NIDA Metal UD runner profile may not be fixed to the wall structure in the plasterboard sliding area.

Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.

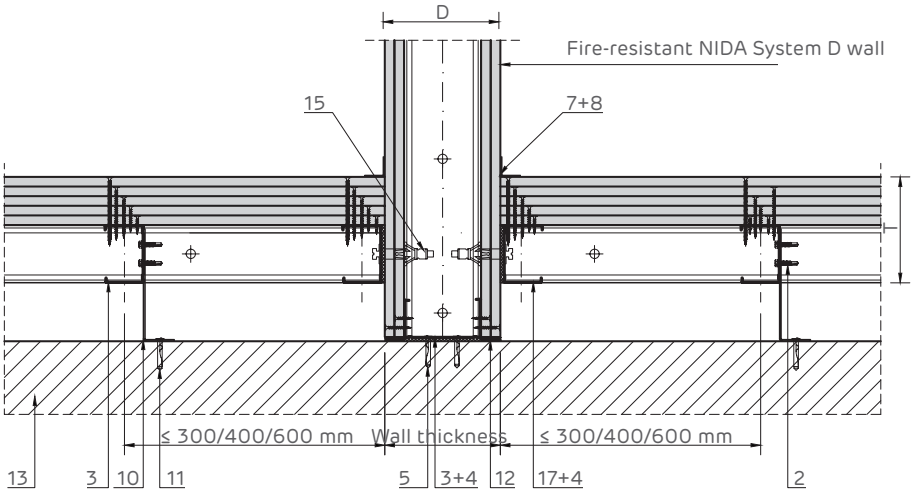


1. 4x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 600
6.3. Self-tapping screw 212xL3 @ 600
6.4. Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

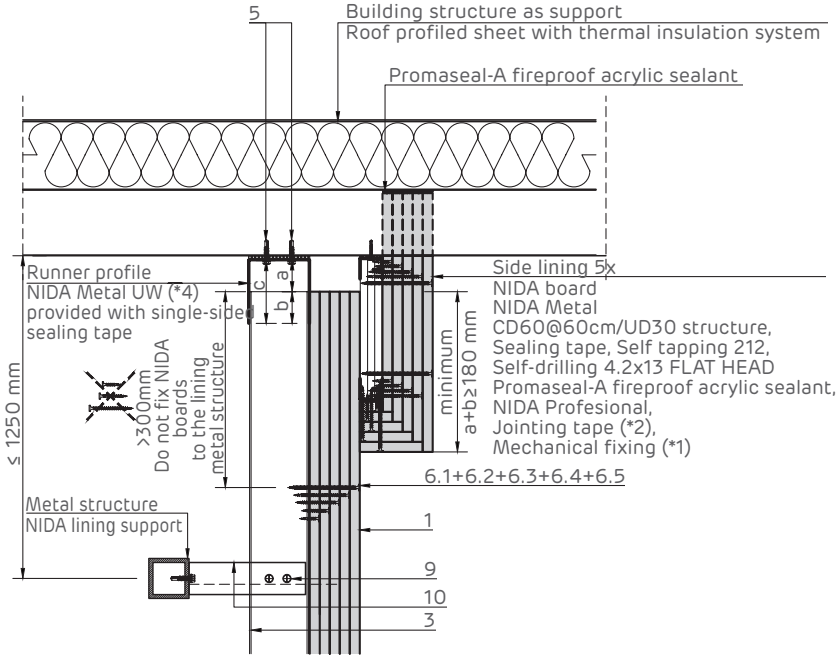
Crossing with D wall less resistant to fire
Horizontal section.



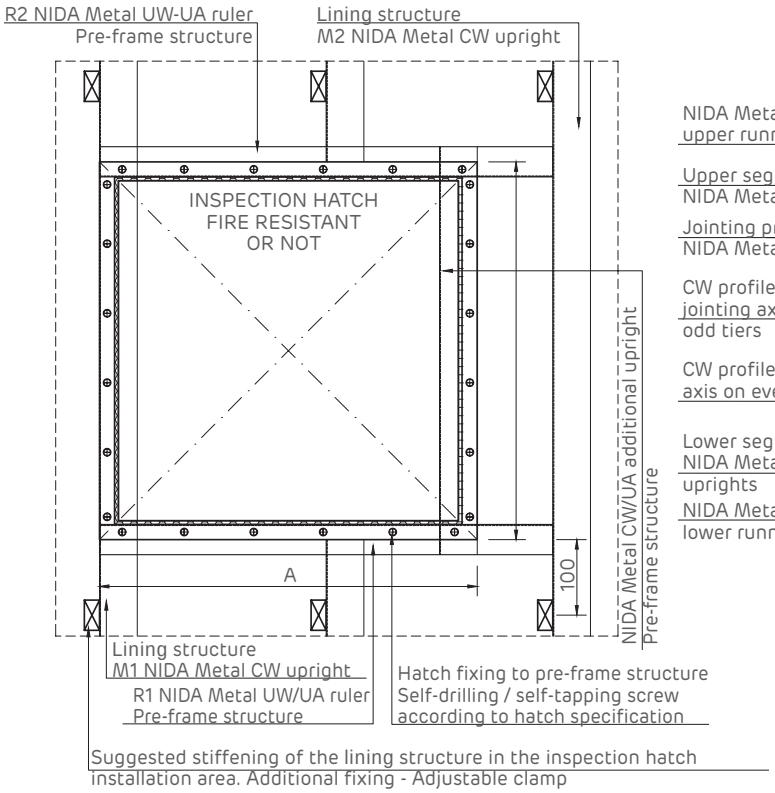
Crossing with D wall more resistant to fire. Horizontal section.



Detailed attachment at the top on the roof profiled sheet.
System perpendicular to the profiles. Vertical section



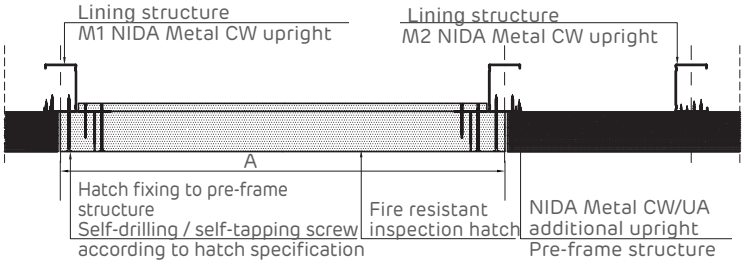
Access hatch elevation.



NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:
- Hatch sizes (A, B)
- Hatch weight
- **Lining** height and configuration

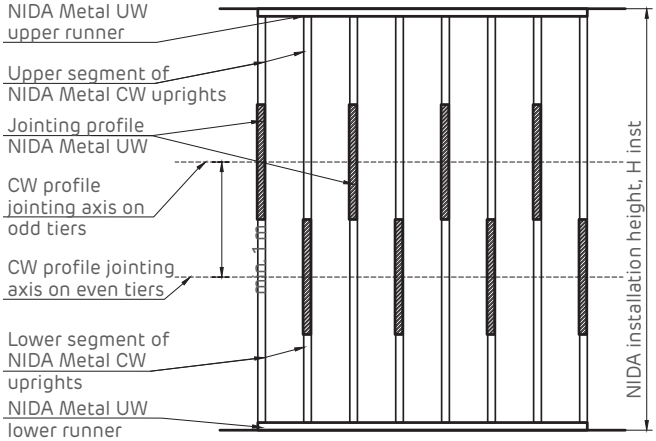
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System **lining** is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch.

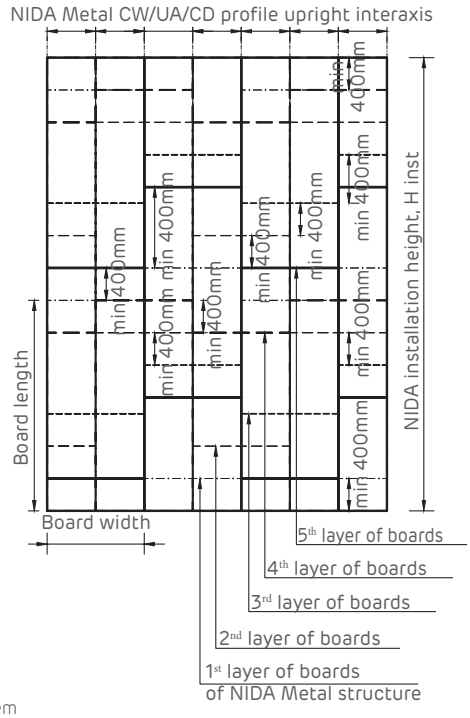


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.

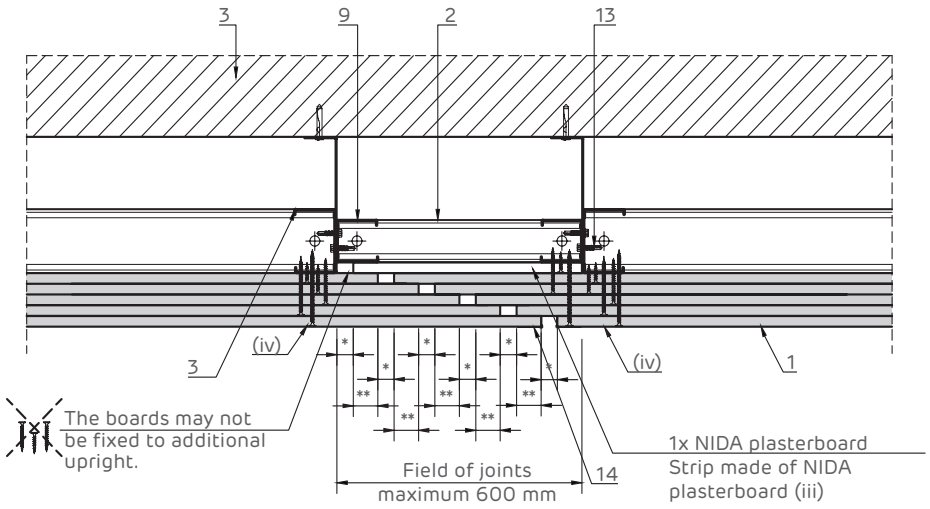


Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.



1. 5x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
3.1 Double NIDA Metal CW-H upright profiles
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 600
6.4 Self-tapping screw 212xL4 @ 600
6.5 Self-tapping screw 212xL5 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

Expansion joint Horizontal section.



NOTE:

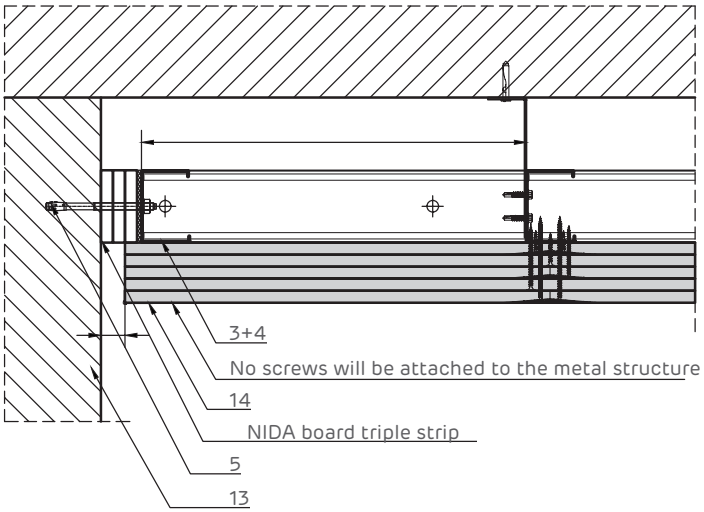
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.

(v) In the case of **lining** longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

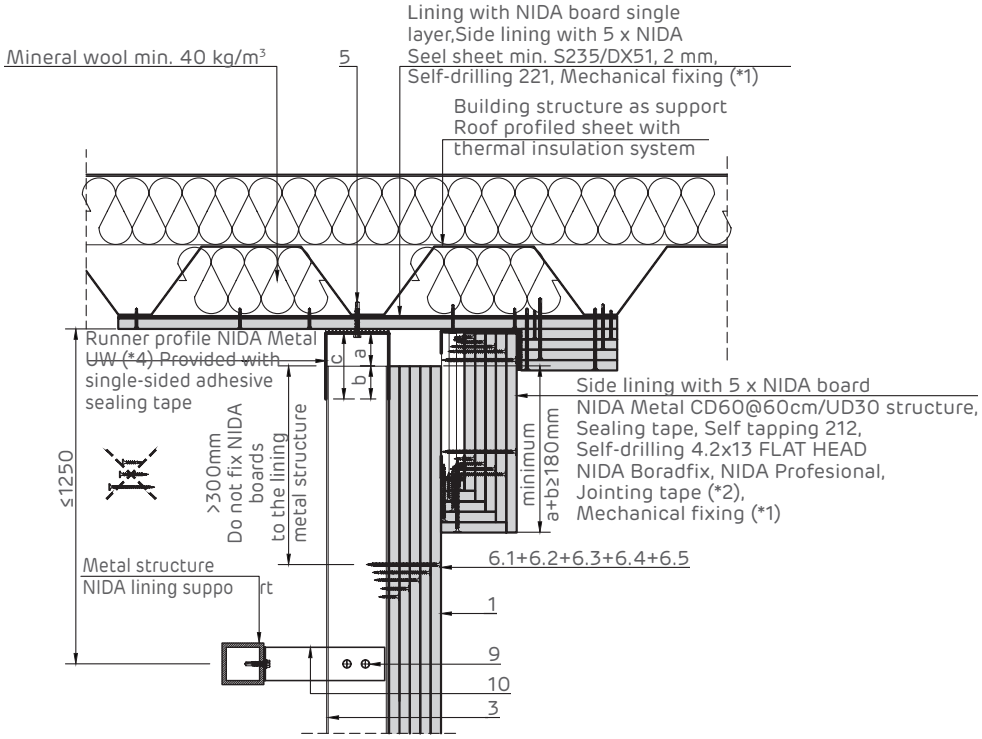
* The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm

** The overlap of boards should have a minimum size of (* + 10 mm)

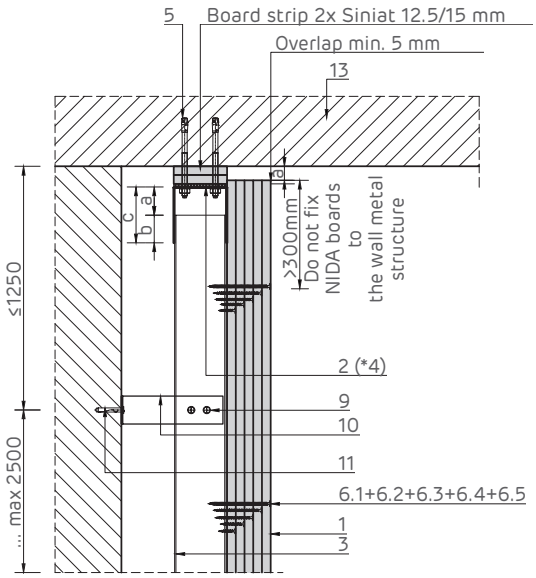
Sliding joint with sturdy items. Horizontal section.



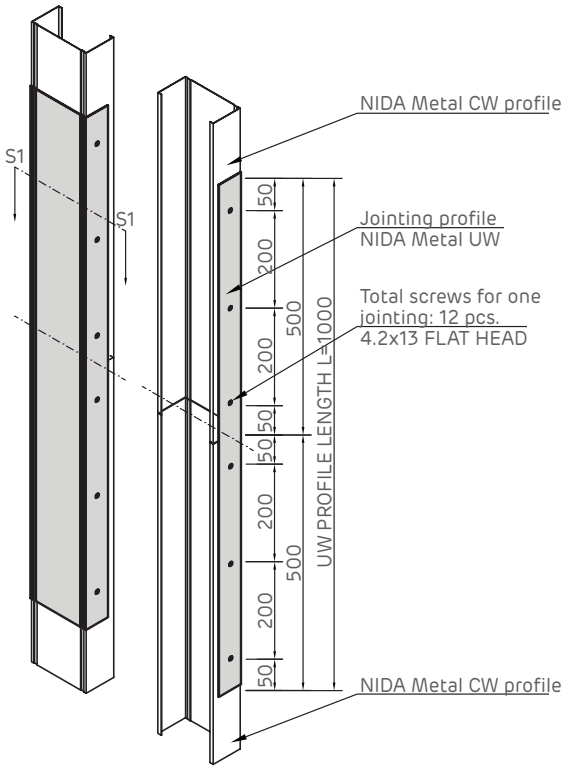
Detailed attachment at the top on the roof profiled sheet. System parallel to the sheet ribs. Vertical section



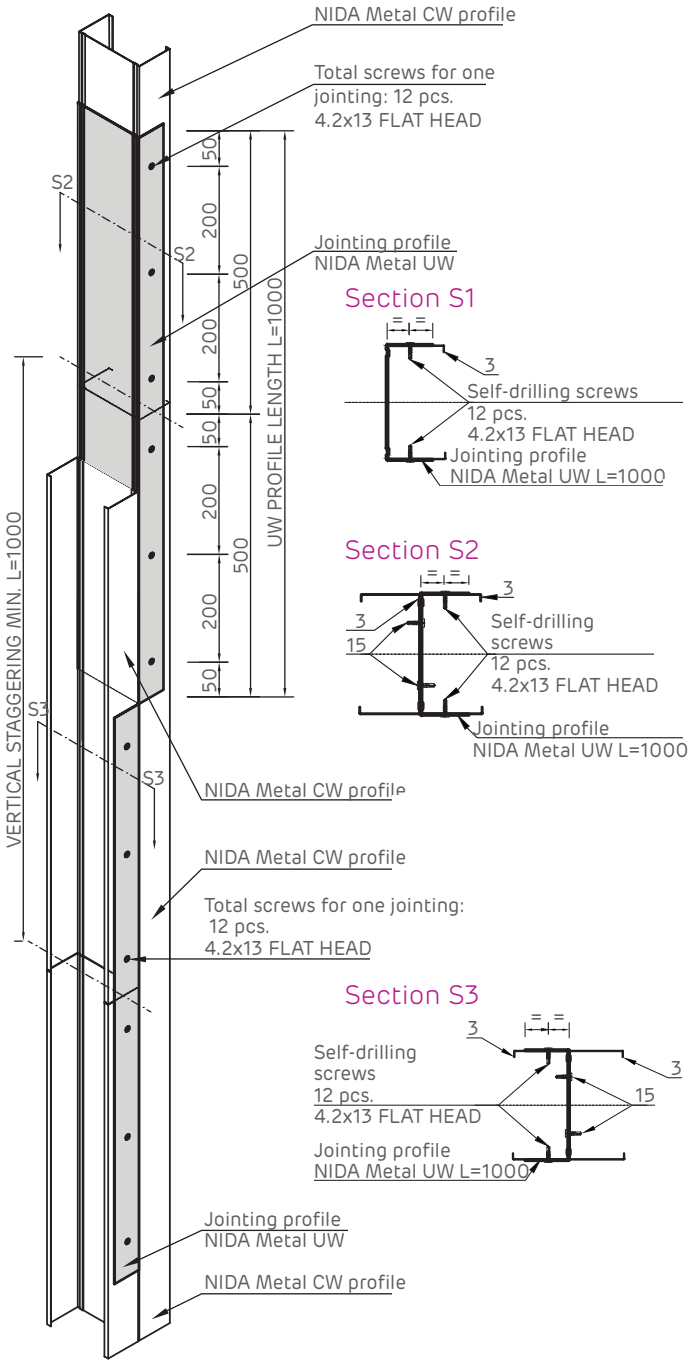
Sliding attachment detail at top on reinforced concrete members. Vertical section



Jointing detail of NIDA Metal CW single profiles.



Jointing detail of NIDA Metal CW double profiles.

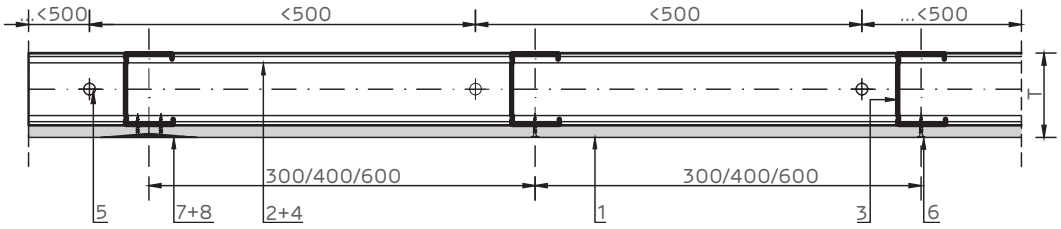


1. 5 x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
3.1. Double NIDA Metal CW-H upright profiles
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 600
6.3. Self-tapping screw 212xL3 @ 600
6.4. Self-tapping screw 212xL4 @ 600
6.5. Self-tapping screw 212xL5 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

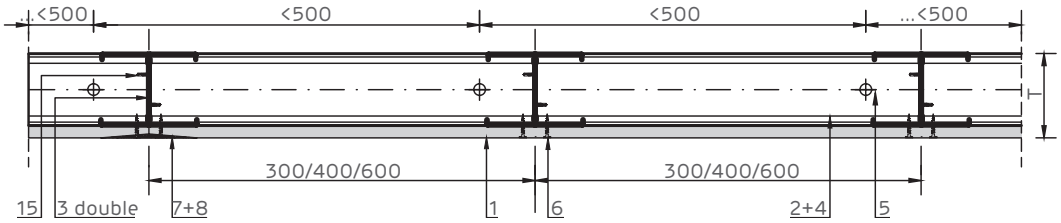
NIDA System SH.CW.I

Shaft-walls with NIDA System SH.CW.I single-layer **lining** on NIDA Metal CW/UW independent support structure

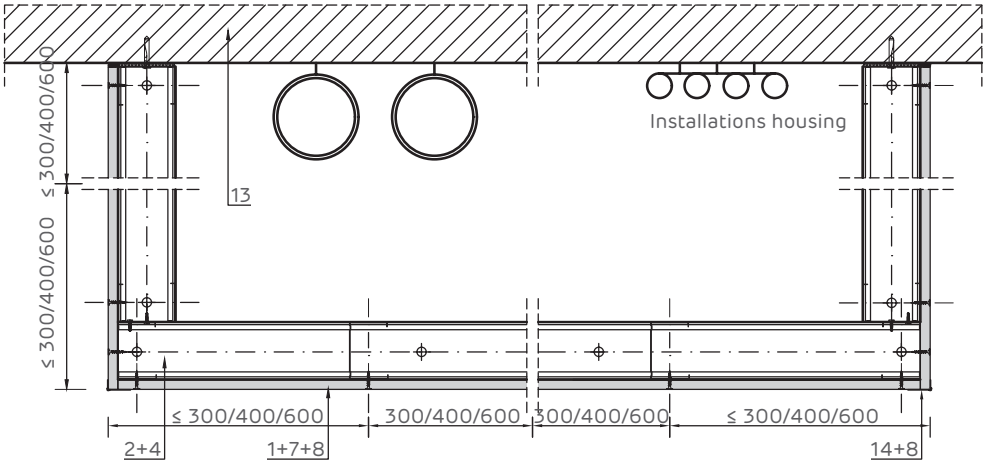
Single NIDA Metal CW upright Horizontal section.



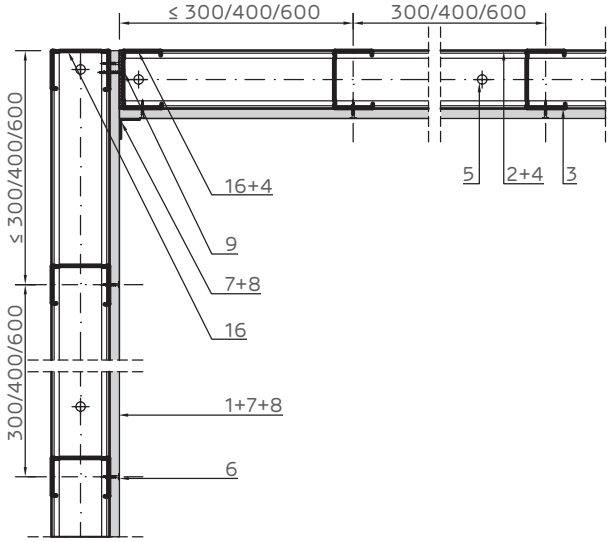
Double NIDA Metal CW upright Horizontal section.



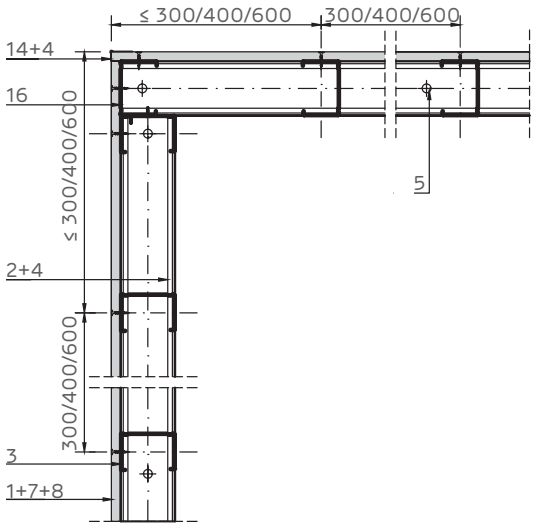
Three-sided enclosing of installations housing Horizontal section.



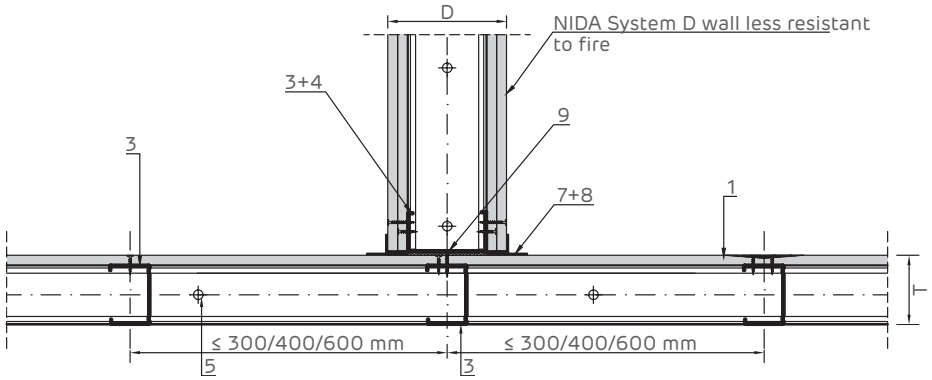
90° corner joint. Horizontal section.



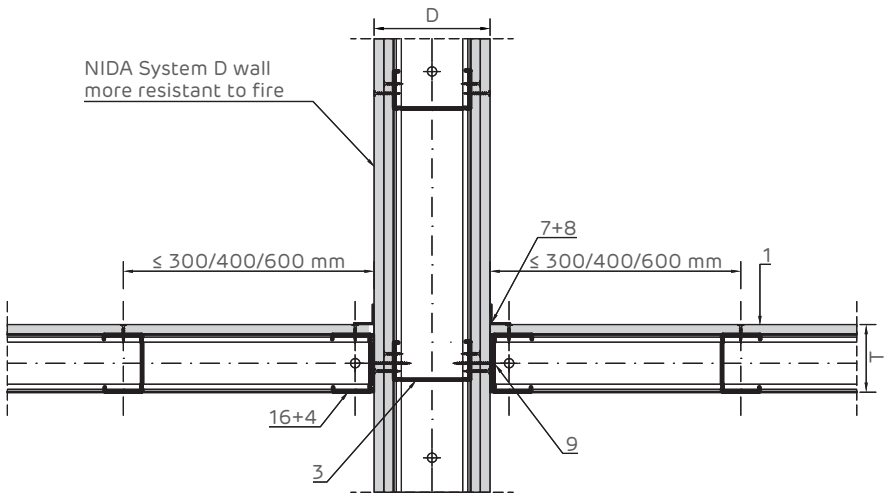
270° corner joint. Horizontal section.



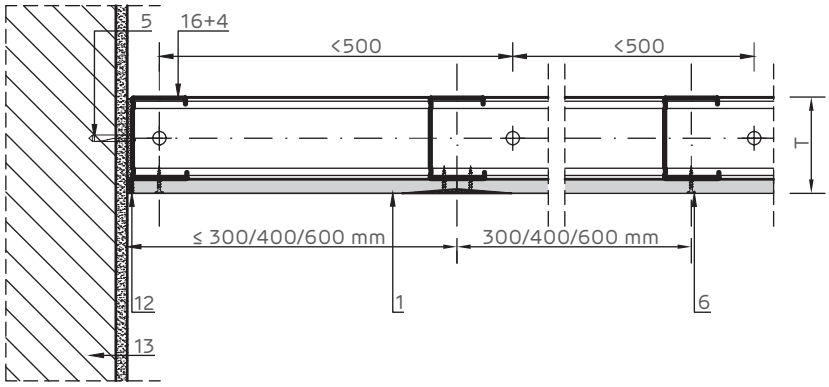
Crossing with D wall less resistant to fire
Horizontal section.



Crossing with D wall more resistant to fire. Horizontal section.

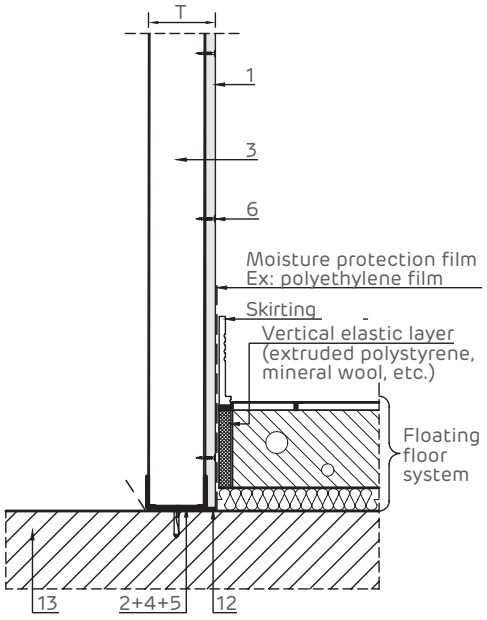


Rigid jointing with sturdy item
Horizontal section.

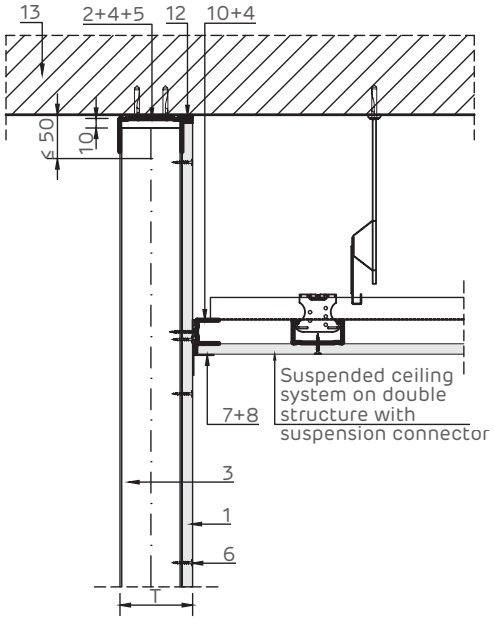


1. 1x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL2 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

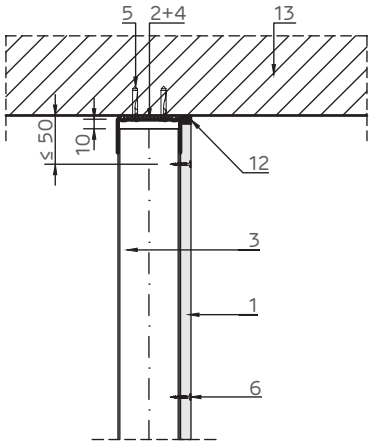
Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.



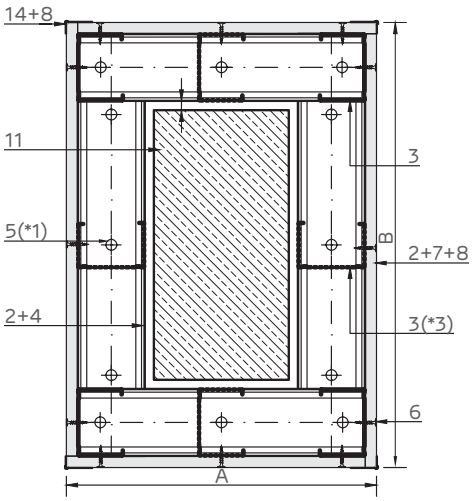
Detailed crossing with suspended ceiling on double structure with adjustable clamp. Vertical section



Detailed attachment at the top on reinforced concrete members. Installation height: H ≤ 5 m. Vertical section.

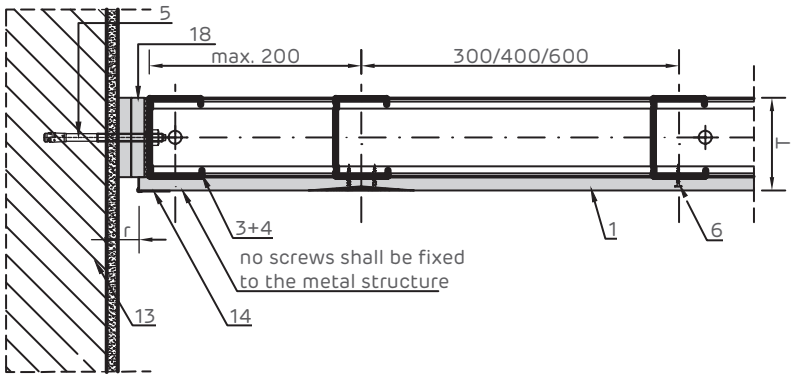


Lining of a wooden item Horizontal section.



NOTE:
(*1) A minimum of 3 fasteners should be fitted along NIDA Metal UD.
(*3) If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (marked with a dotted line in the plan) should be placed.

Sliding joint with sturdy items. Horizontal section.

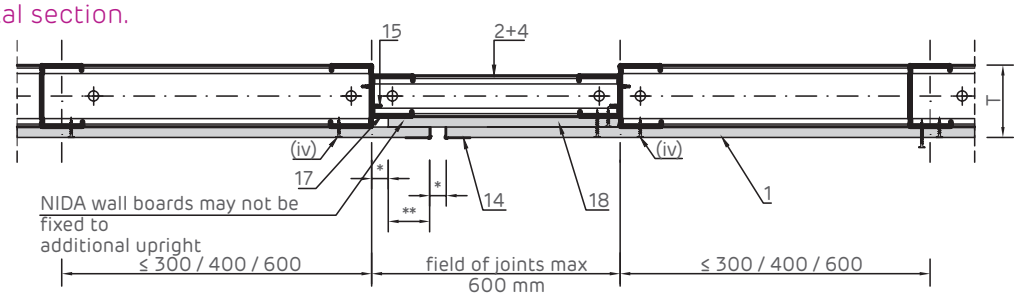


Joint (r) size:

20 mm for 2xSiniat 12.5 mm;
25 mm for 2x Siniat 15;
30 mm for 3x Siniat 12.5;
35 mm for 3x Siniat 15;
40 mm for 4x Siniat 12.5;
3+4 50 mm for 4x Siniat 15;

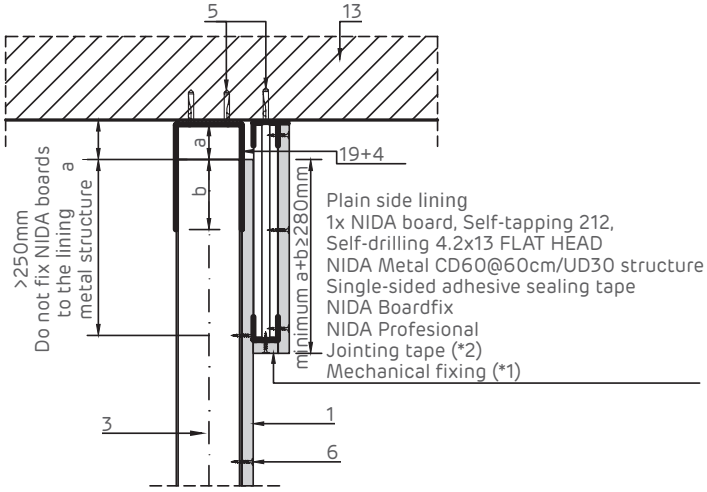
Expansion joint Horizontal section.

NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of **lining** longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

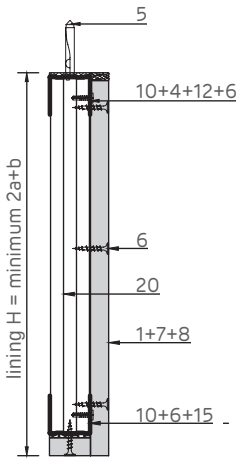


(*) The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm
(**) The overlap of boards should have a minimum size of (* + 10 mm)

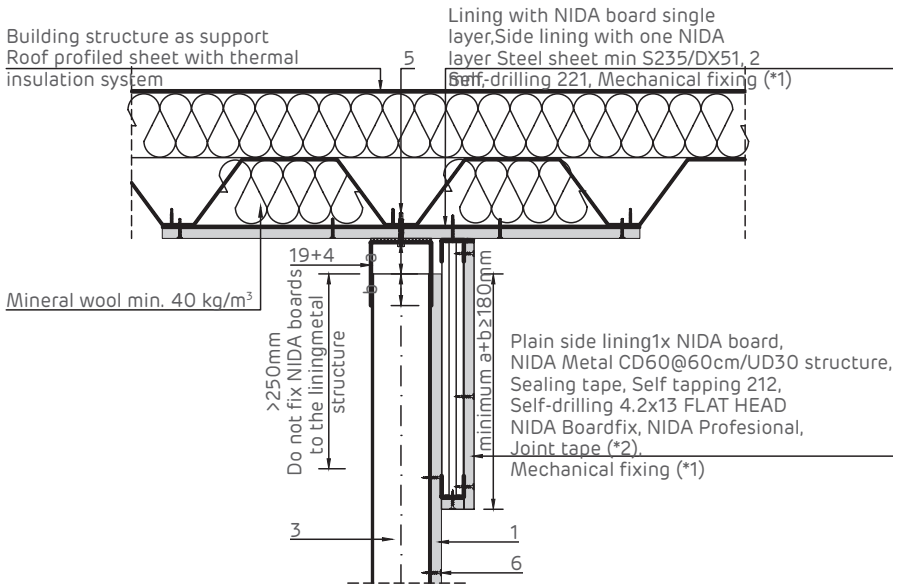
Detailed attachment at the top on reinforced concrete members. Vertical section



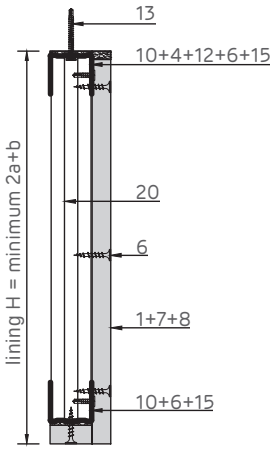
Detail of plain side **lining**. Vertical section



Detailed attachment at the top to the roof profiled sheet. Direct fixing. System parallel to the sheet ribs. Vertical section

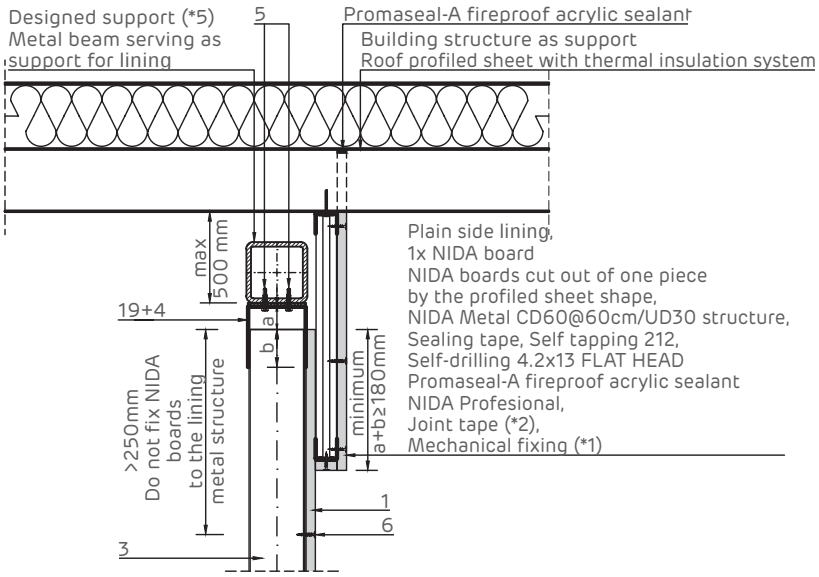


Detail of single side **lining**. Vertical section

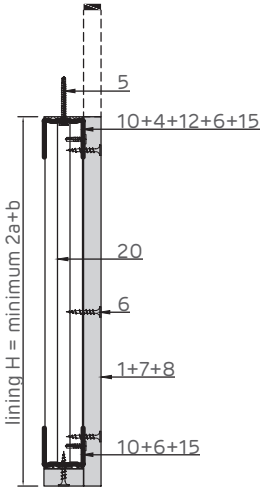


1. 1x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL2 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

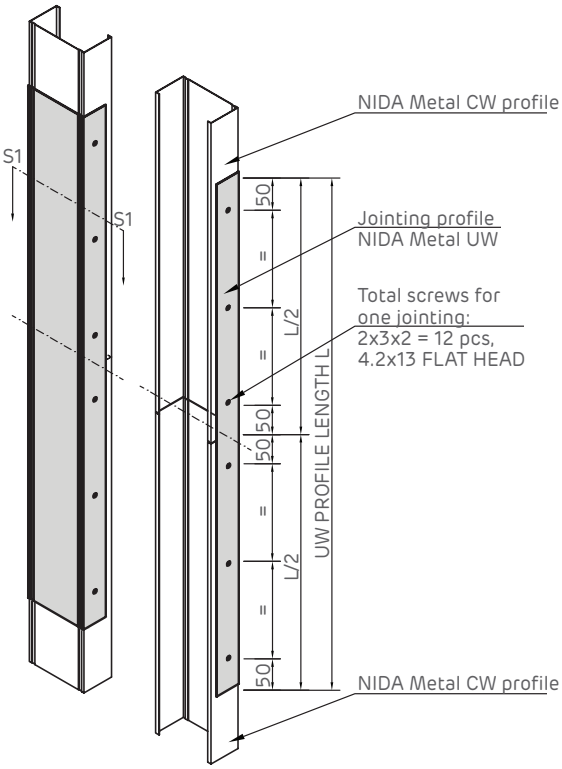
Detailed attachment at the top on the roof profiled sheet.
Fixing on designed support (*5). System perpendicular to the profiles. Vertical section



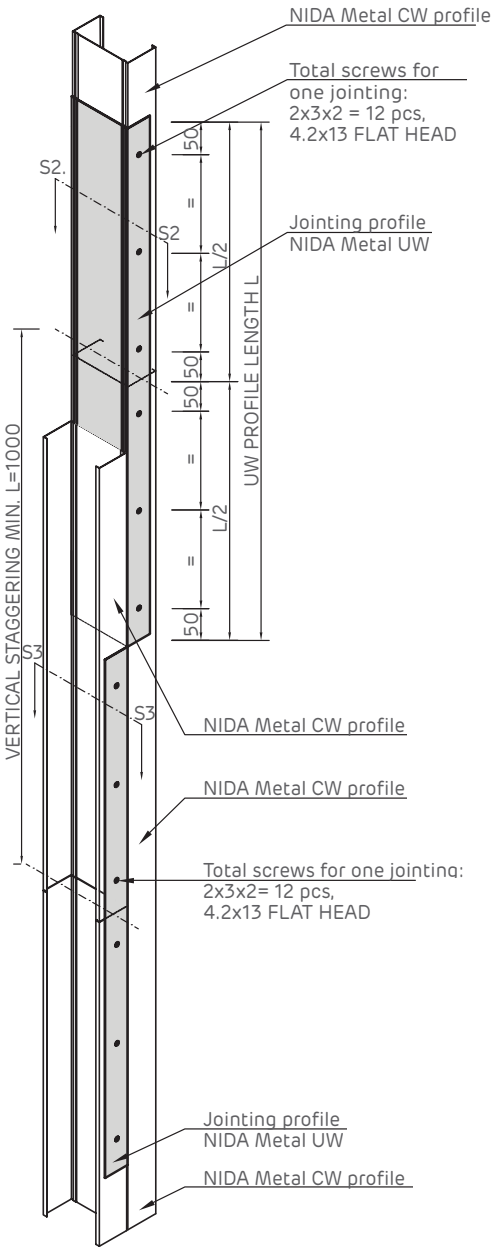
Detail of single side lining. Vertical section



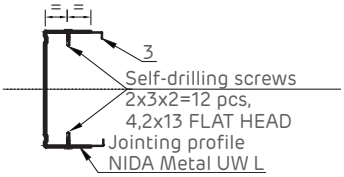
Jointing detail of NIDA Metal CW single profiles.



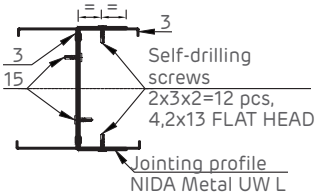
Jointing detail of NIDA Metal CW double profiles.



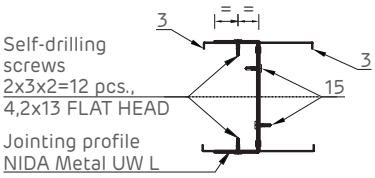
Section S1



Section S2

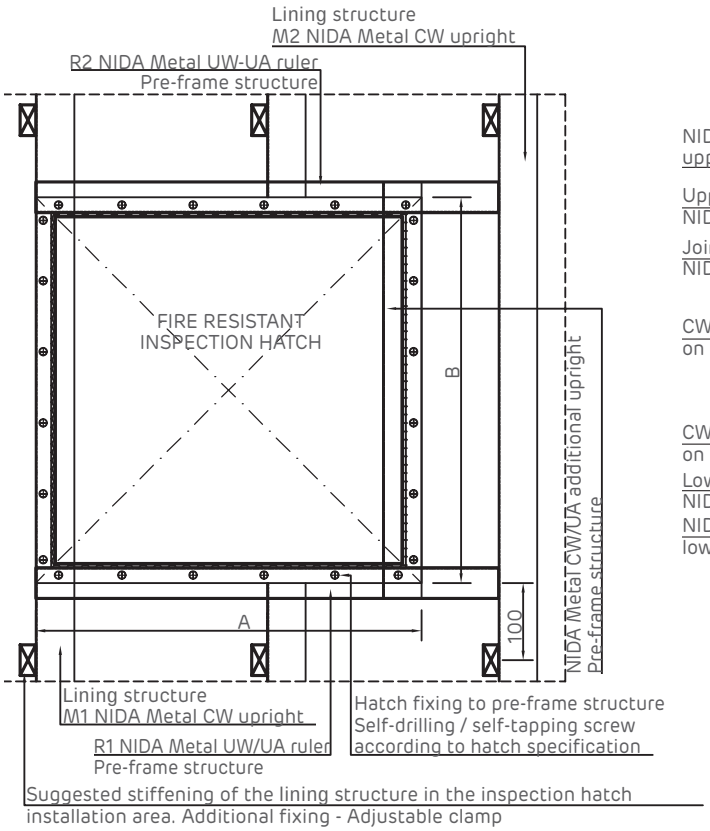


Section S3



N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

Access hatch elevation.

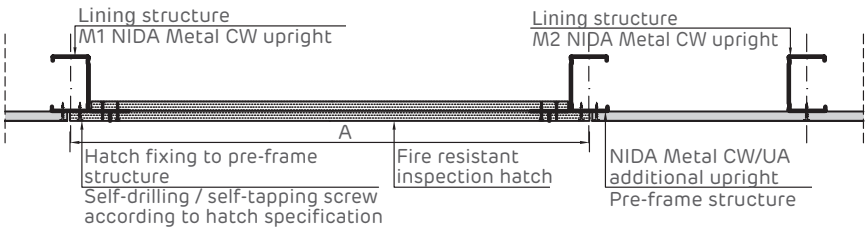


NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

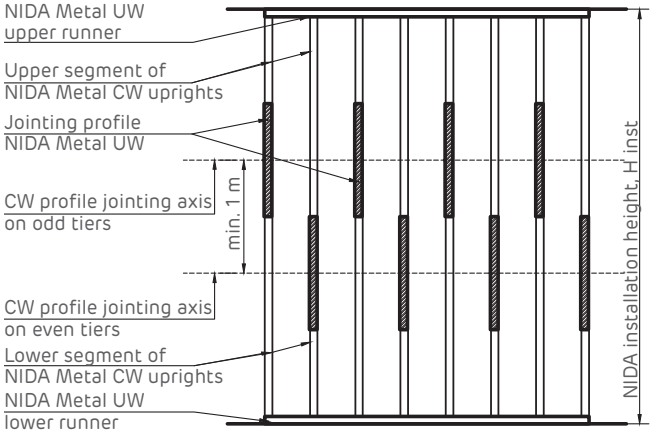
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch.

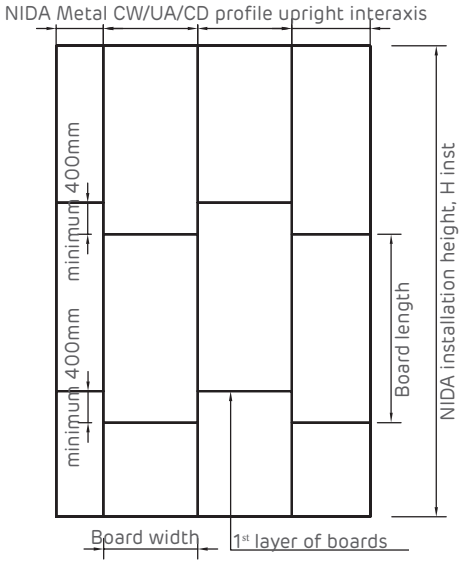


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.

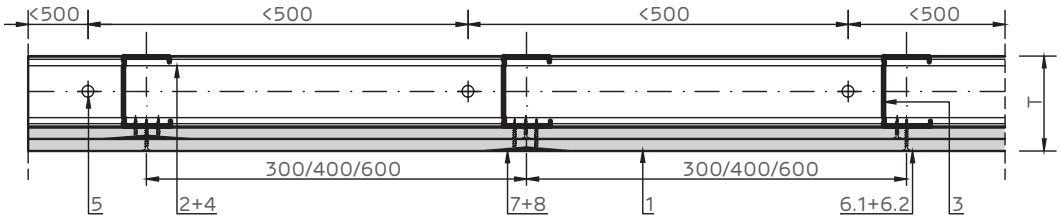


1. 1x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL2 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

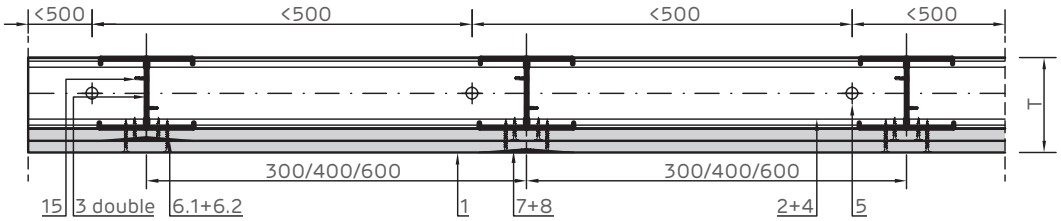
NIDA System SH.CW.I

Shaft-walls with NIDA System SH.CW.I double-layer **lining** on NIDA Metal CW/UW independent support structure

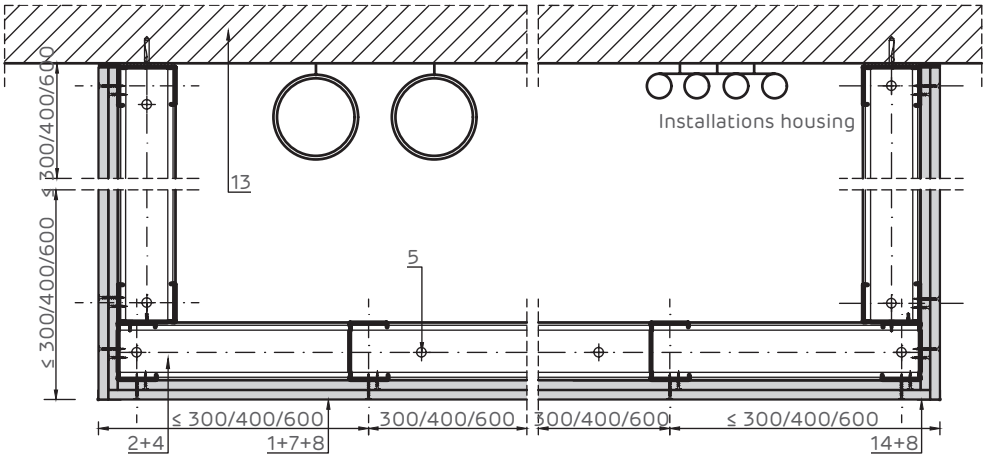
Single NIDA Metal CW upright Horizontal section.



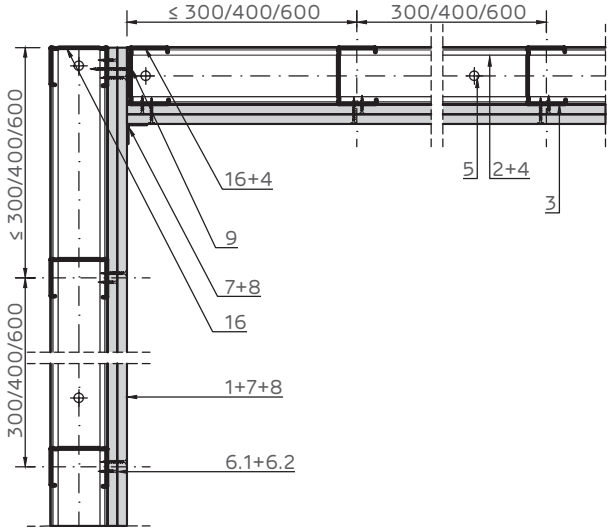
Double NIDA Metal CW upright Horizontal section.



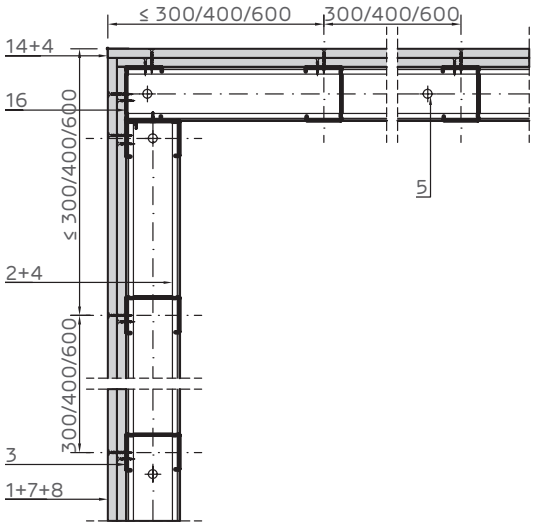
Three-sided enclosing of installations housing Horizontal section.



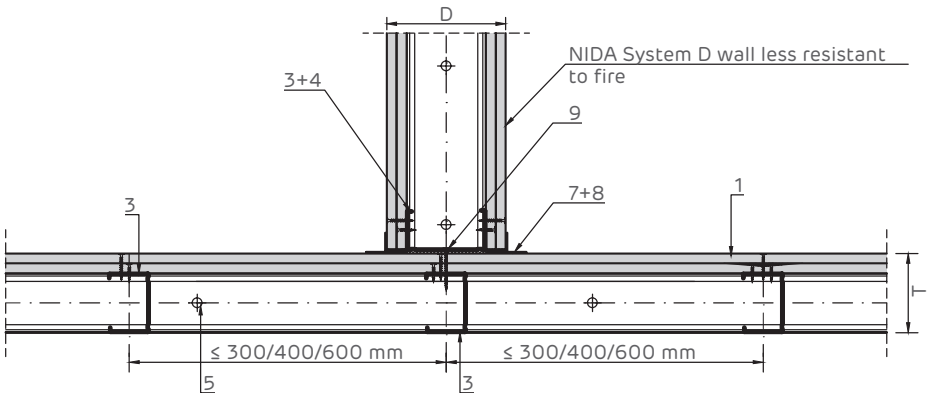
90° corner joint. Horizontal section.



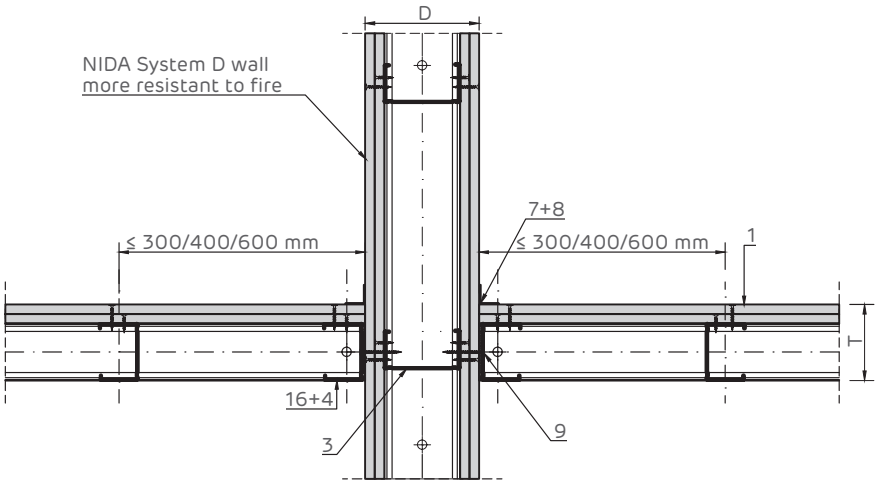
270° corner joint. Horizontal section.



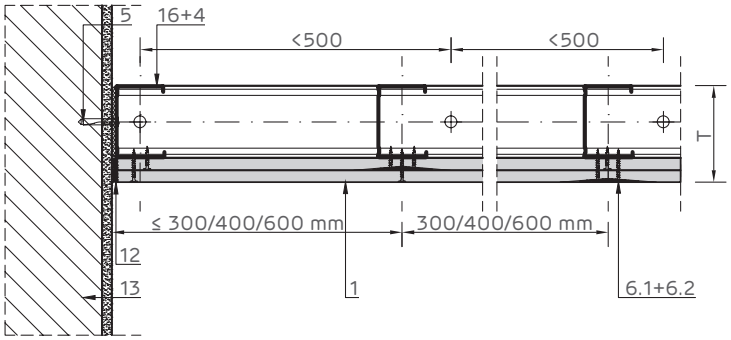
Crossing with D wall less resistant to fire
Horizontal section.



Crossing with D wall more resistant to fire
Horizontal section.

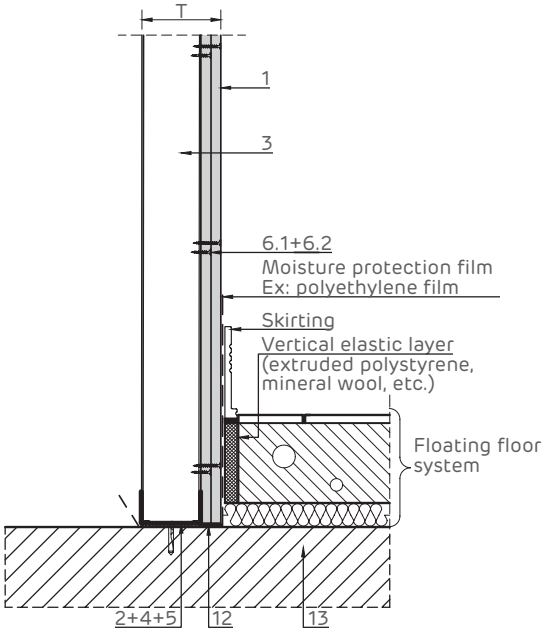


Rigid jointing with sturdy item
Horizontal section.

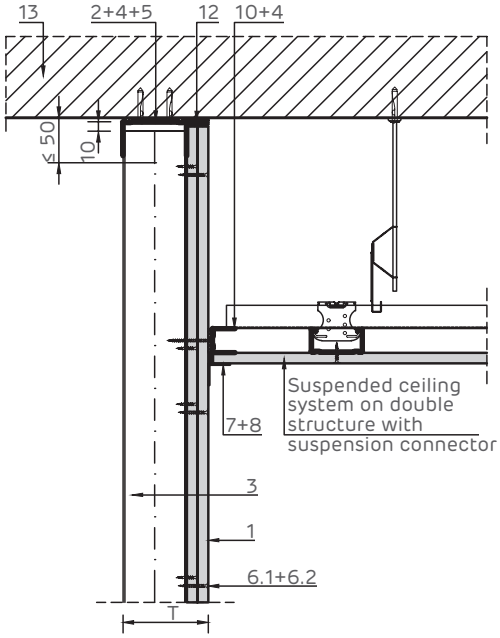


1. 2x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL3 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

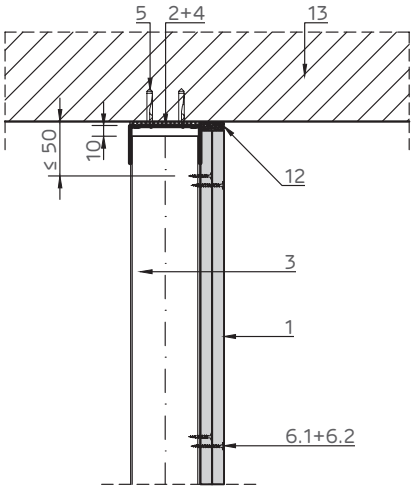
Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.



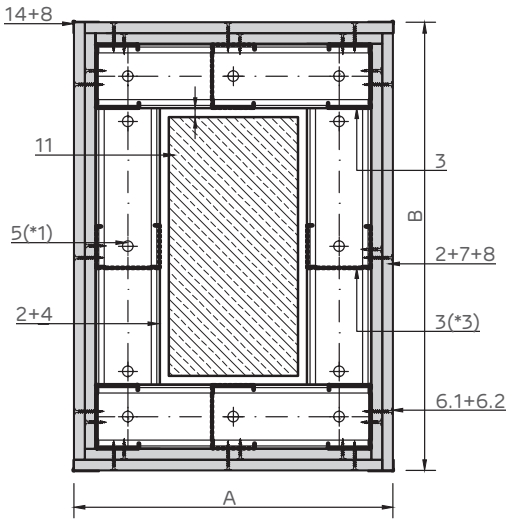
Detailed crossing with suspended ceiling on double structure with suspension connector. Vertical section



Detailed attachment at the top on reinforced concrete members. Installation height: H ≤ 5 m. Vertical section.

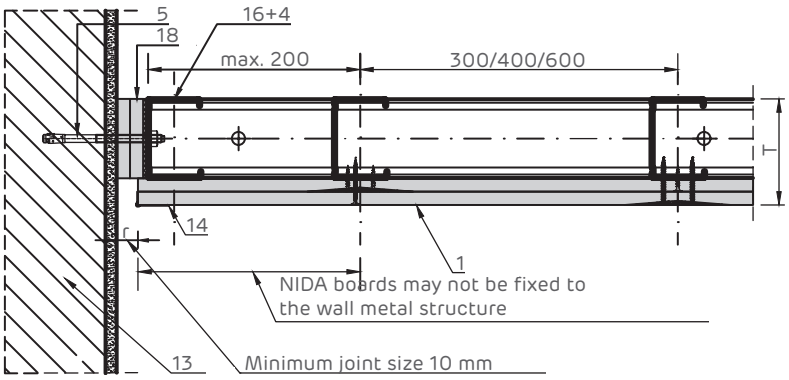


Lining of a wooden item Horizontal section.



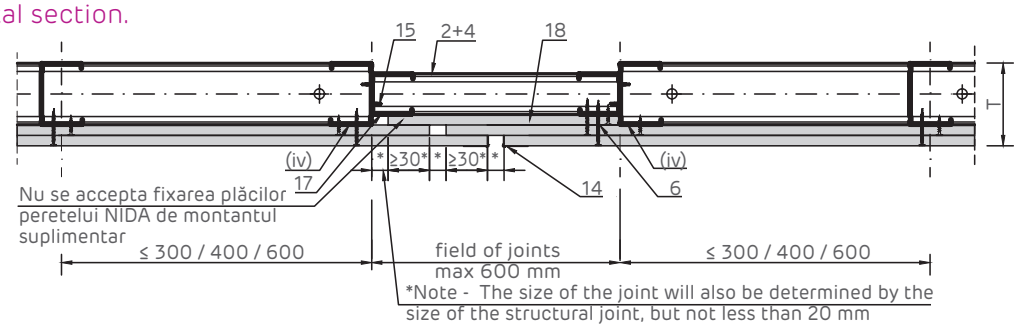
NOTE:
(*1) A minimum of 3 fasteners should be fitted along NIDA Metal UD.
(*3) If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (marked with a dotted line in the plan) should be placed.

Sliding joint with sturdy items. Horizontal section.



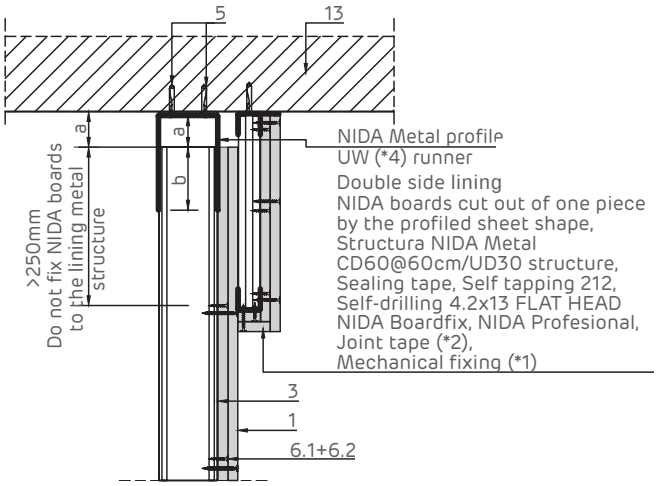
Expansion joint Horizontal section.

NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of **lining** longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

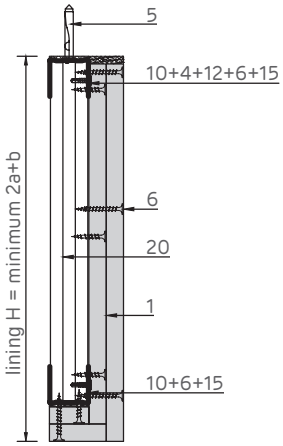


(*) The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm
(**) The overlap of boards should have a minimum size of (* + 10 mm)

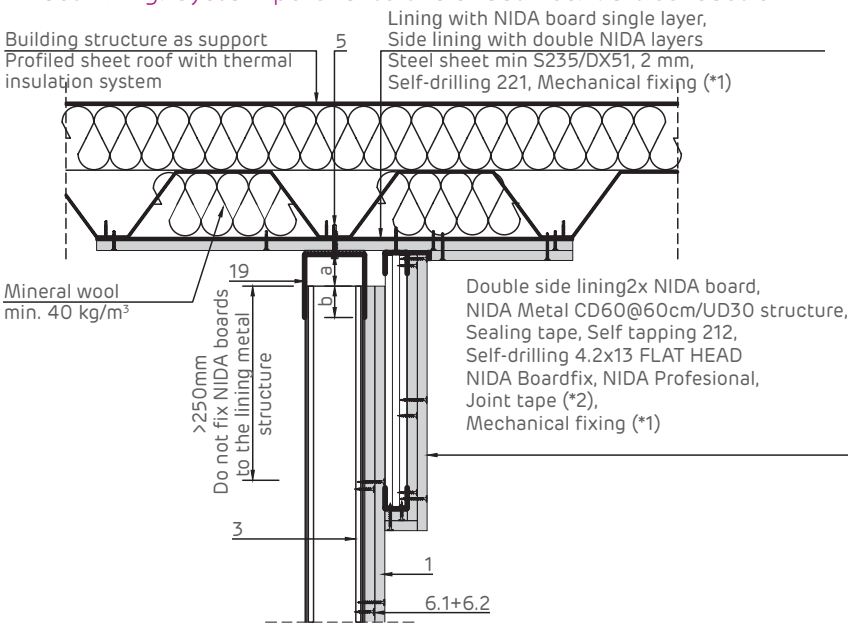
Detailed attachment at the top on reinforced concrete members. Vertical section



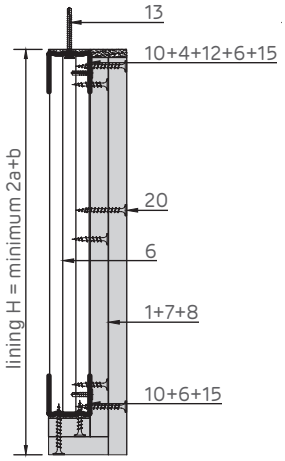
Detail of double side **lining**. Vertical section



Detailed attachment at the top to the roof profiled sheet. Direct fixing. System parallel to the sheet ribs. Vertical section

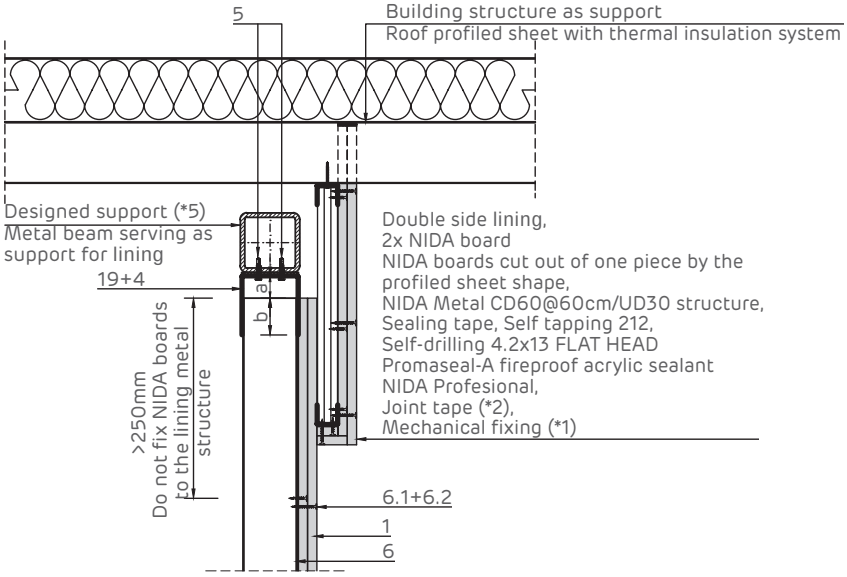


Detail of double side **lining**. Vertical section

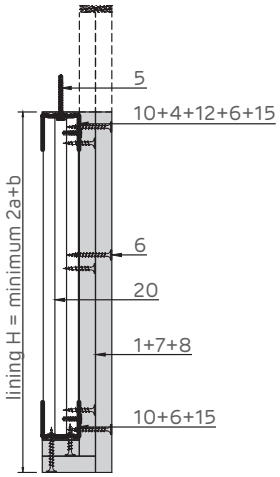


1. 2x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL3 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

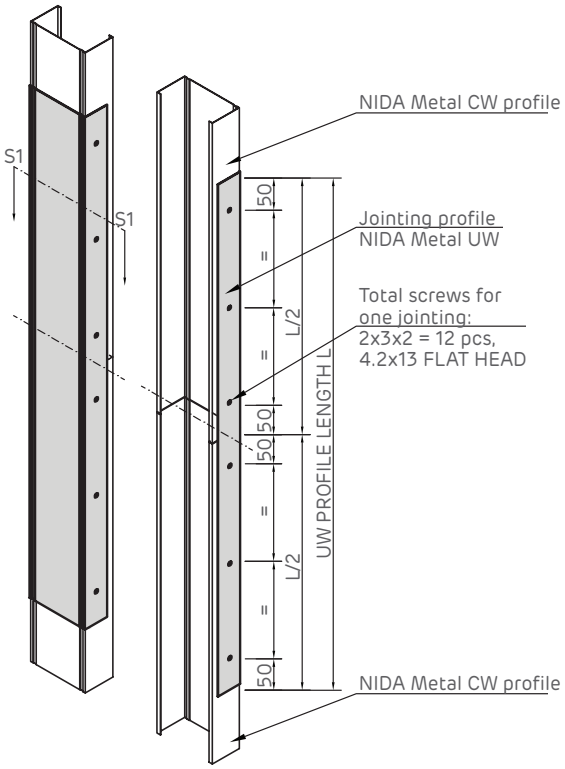
Detailed attachment at the top on the roof profiled sheet.
Fixing on designed support (*5). System perpendicular to the profiles. Vertical section



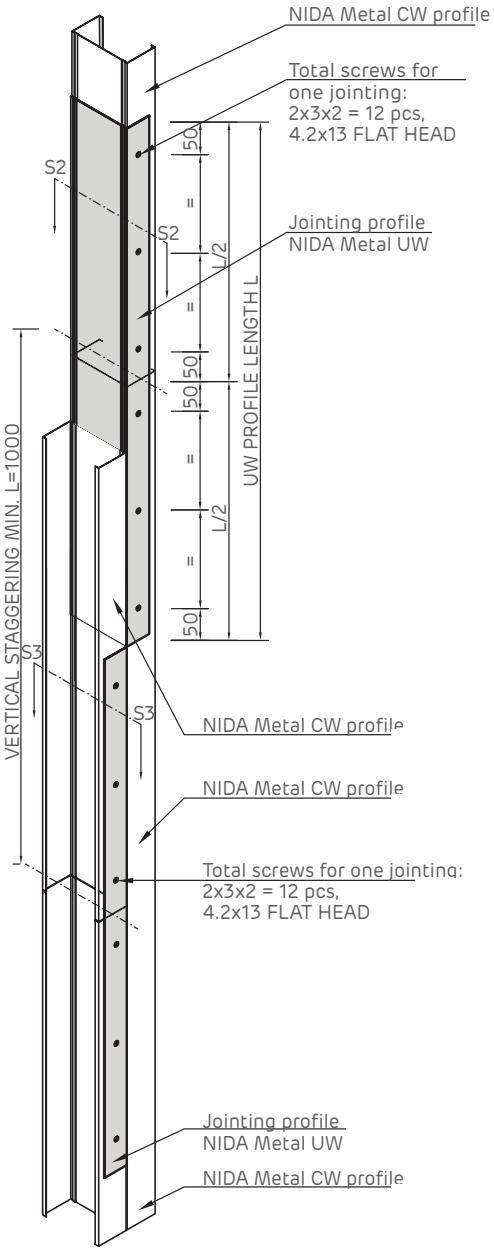
Detail of double side lining.
Vertical section



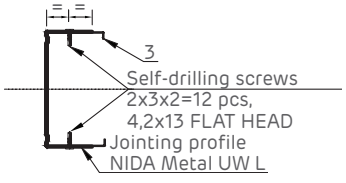
Jointing detail of NIDA Metal CW single profiles.



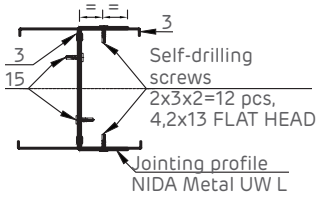
Jointing detail of NIDA Metal CW double profiles.



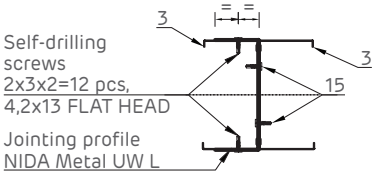
Section S1



Section S2

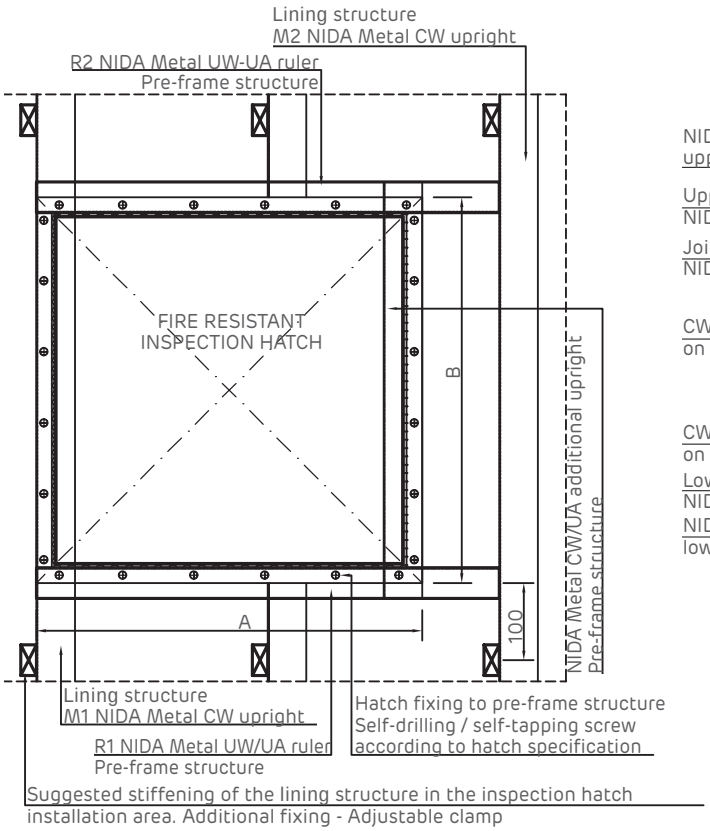


Section S3



N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

Access hatch elevation.

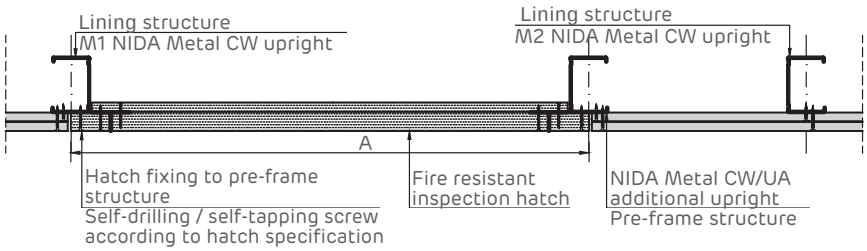


NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

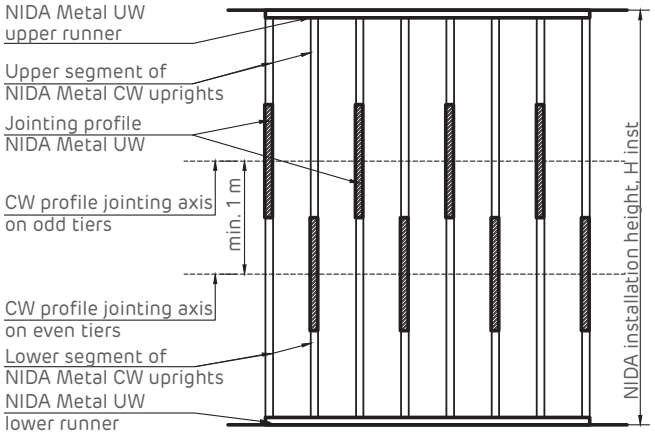
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch.

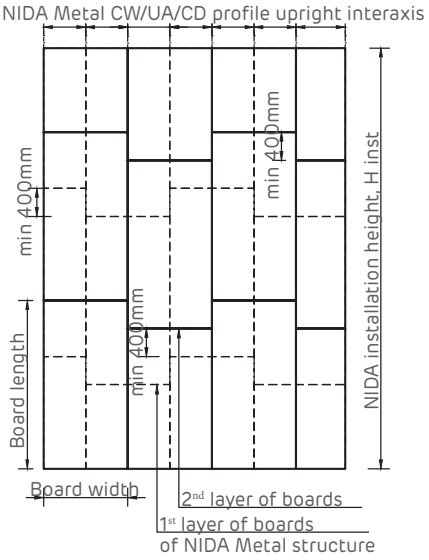


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.

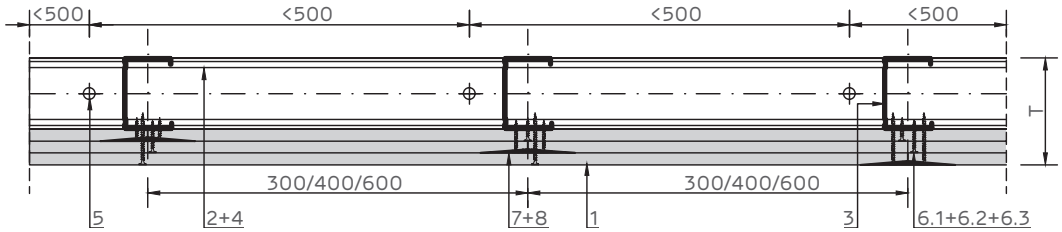


1. 2x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL3 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

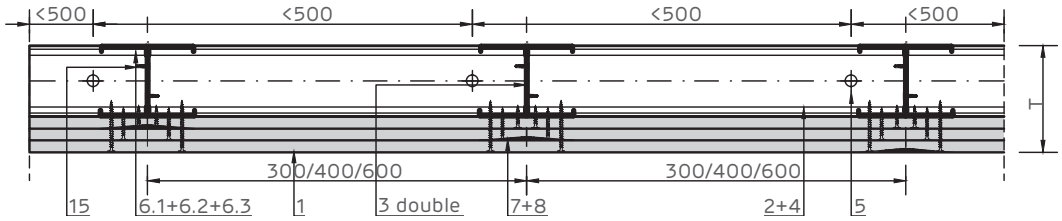
NIDA System SH.CW.I

Shaft-walls with NIDA System SH.CW.I triple-layer **lining** on NIDA Metal CW/UW independent support structure

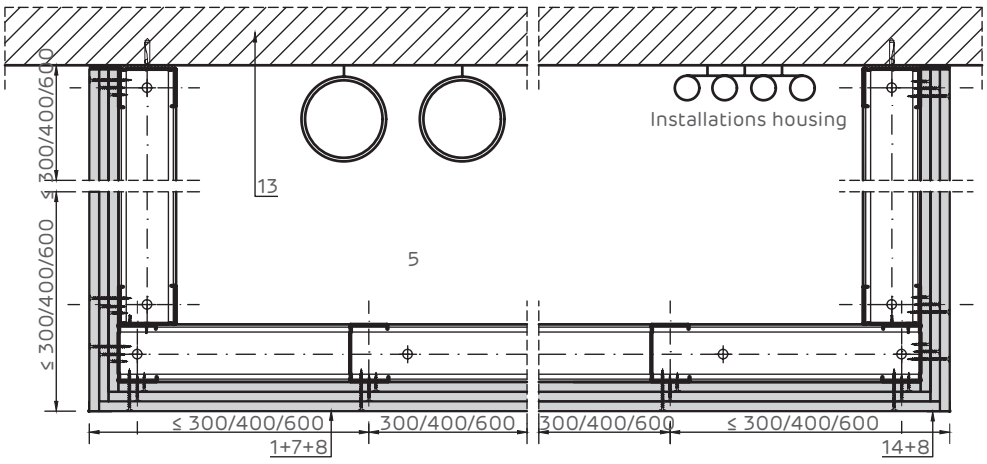
Single NIDA Metal CW upright Horizontal section.



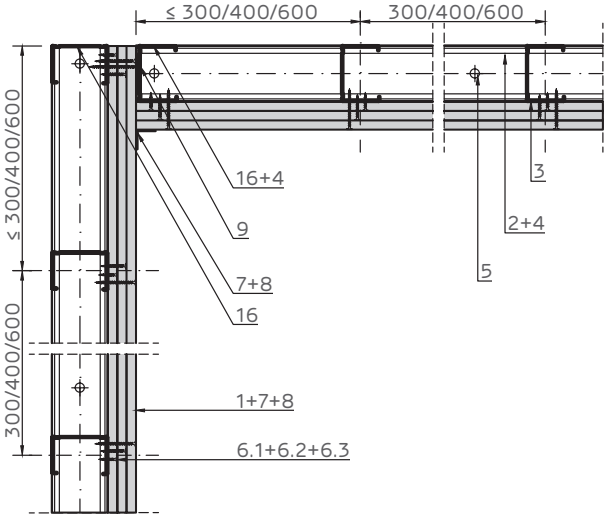
Double NIDA Metal CW upright Horizontal section.



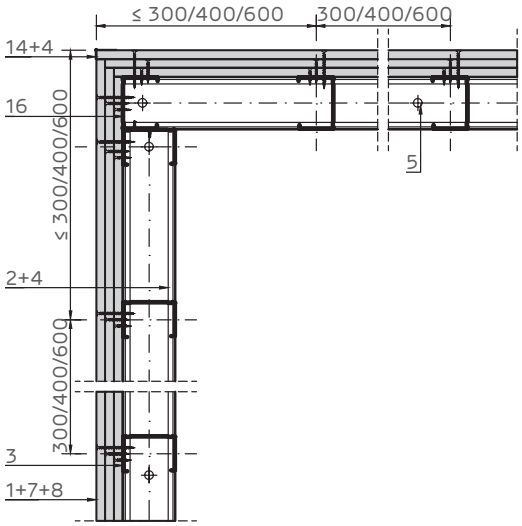
Three-sided enclosing of installations housing Horizontal section.



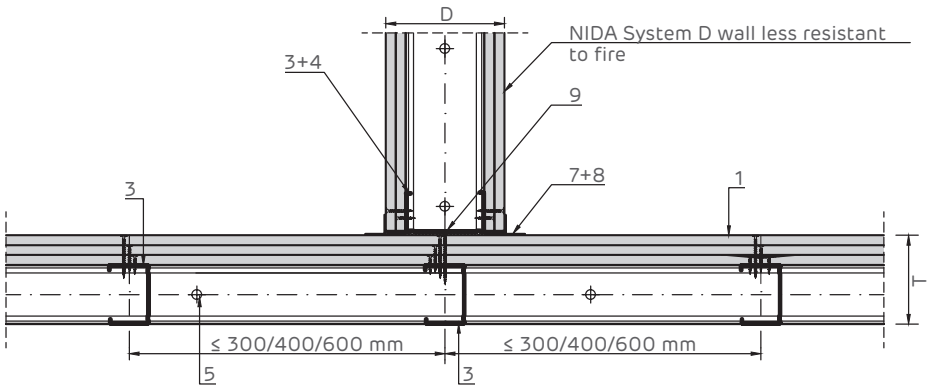
90° corner joint. Horizontal section.



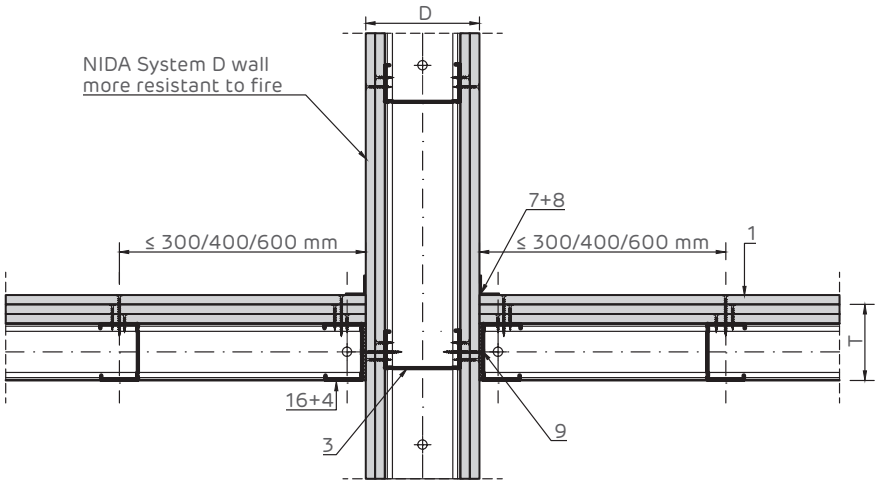
270° corner joint. Horizontal section.



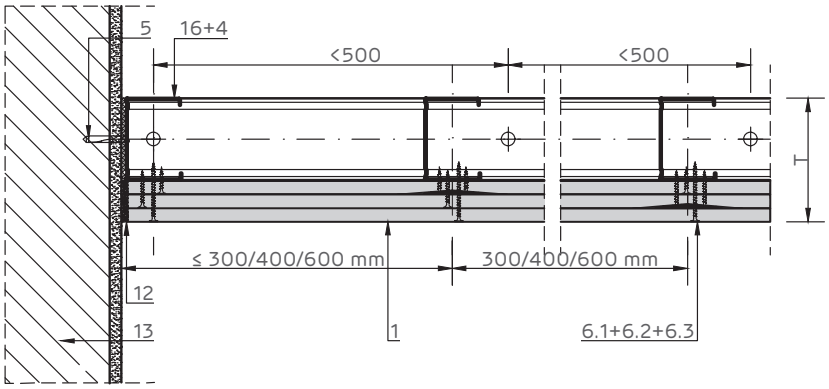
Crossing with D wall less resistant to fire
Horizontal section.



Crossing with D wall more resistant to fire
Horizontal section.

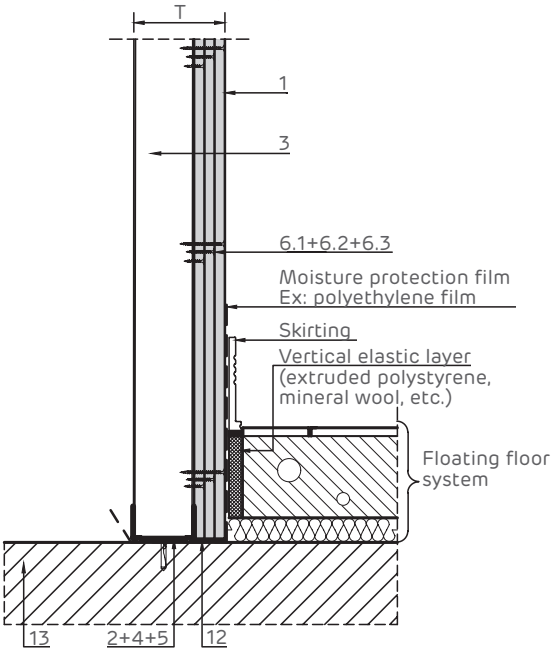


Rigid jointing with sturdy item
Horizontal section.

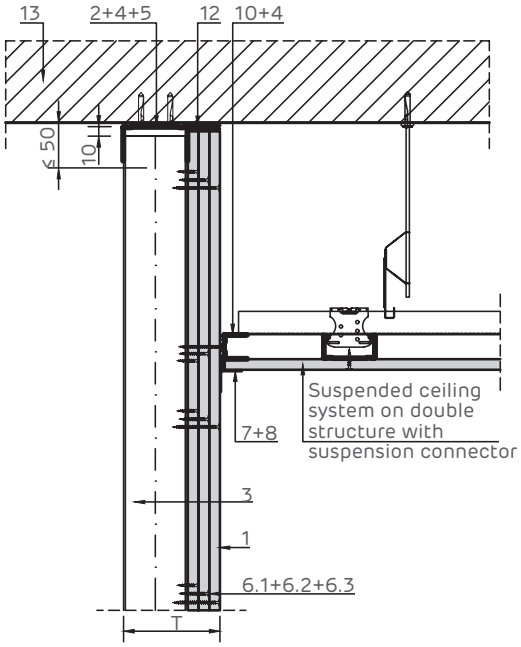


1. 3x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL4 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

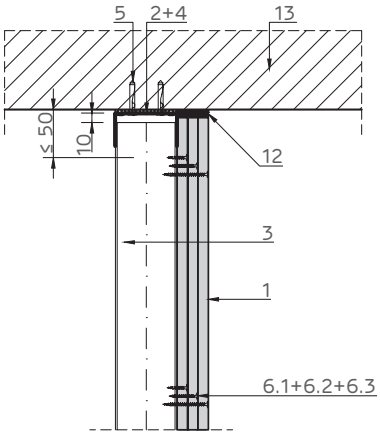
Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.



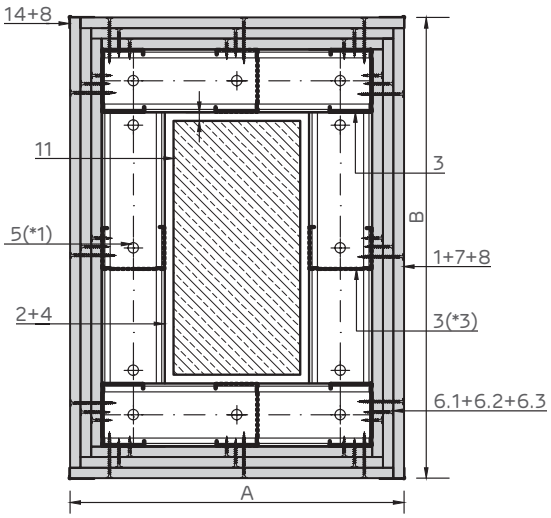
Detailed crossing with suspended ceiling on double structure with adjustable clamp. Vertical section



Detailed attachment at the top on reinforced concrete members. Installation height: H ≤ 5 m. Vertical section.

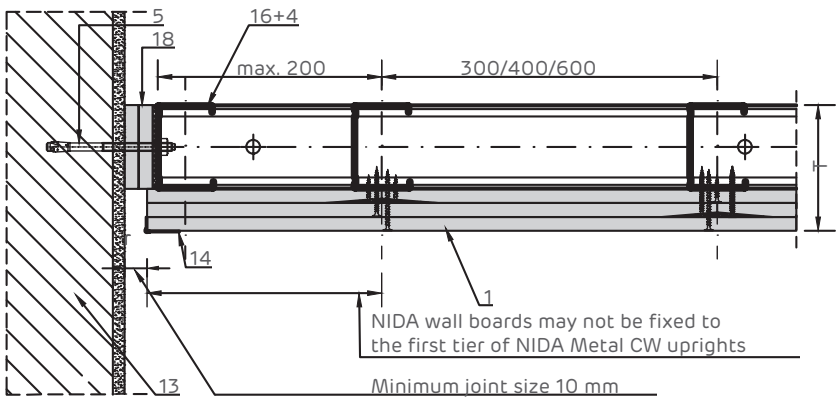


Lining of a wooden item Horizontal section.



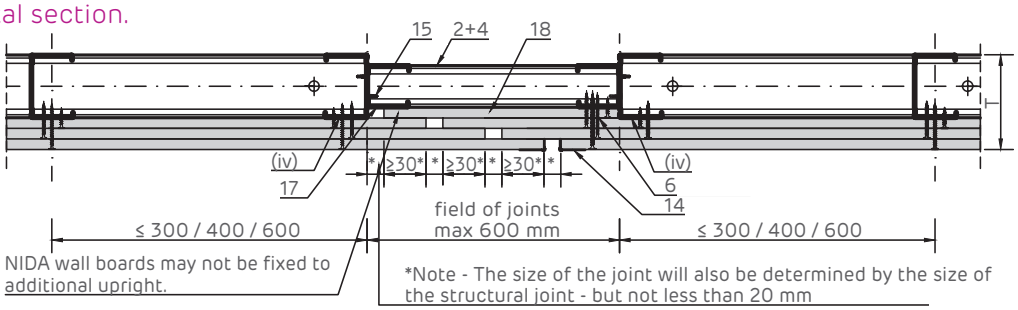
NOTE:
(*1) A minimum of 3 fasteners should be fitted along NIDA Metal UD.
(*3) If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (marked with a dotted line in the plan) should be placed.

Sliding joint with sturdy items. Horizontal section.



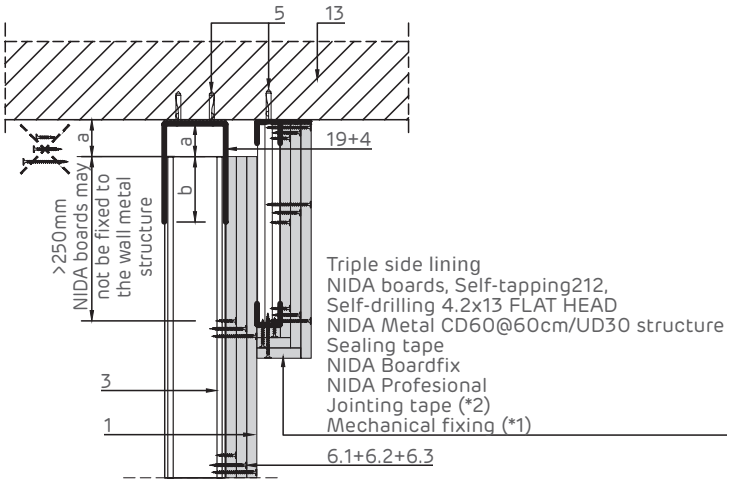
Expansion joint Horizontal section.

NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of **lining** longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

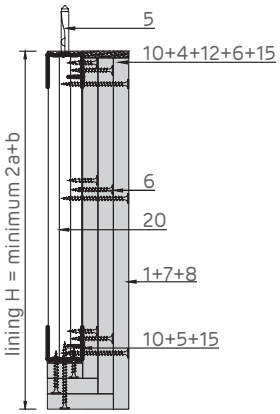


(*) The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm
(**) The overlap of boards should have a minimum size of (* + 10 mm)

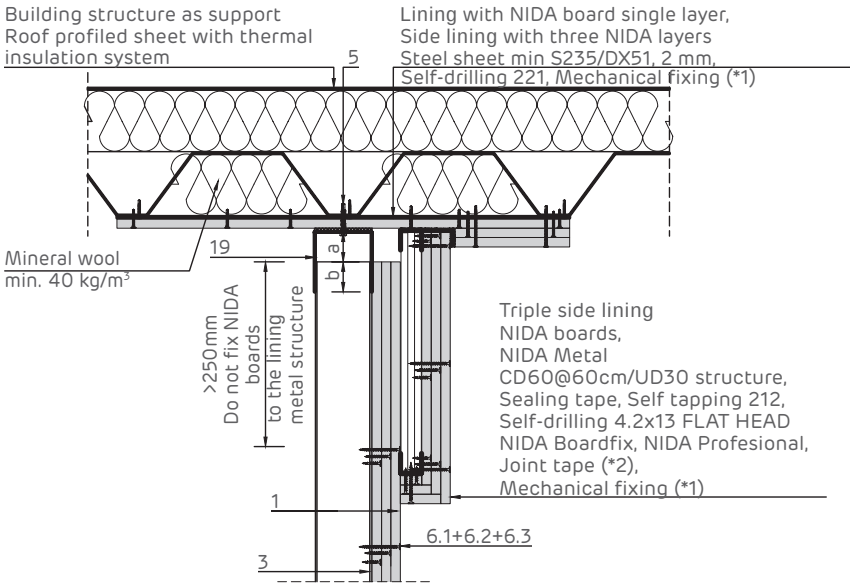
Detailed attachment at the top on reinforced concrete members. Vertical section



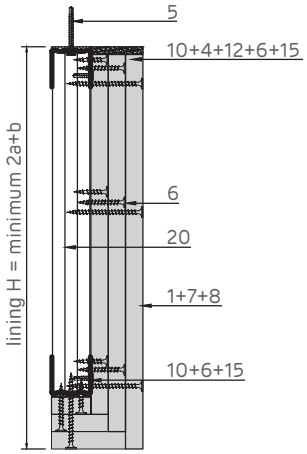
Detail of triple side **lining**. Vertical section



Detailed attachment at the top to the roof profiled sheet. Direct fixing. System parallel to the sheet ribs. Vertical section

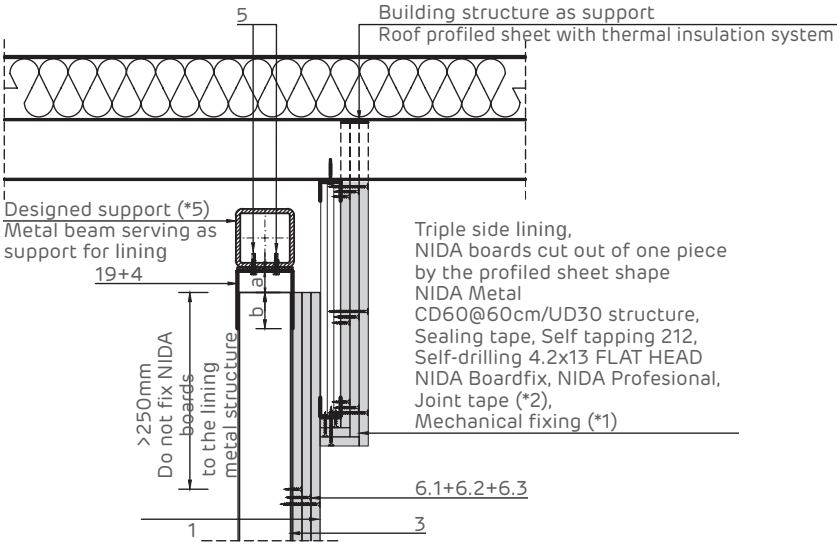


Detail of triple side **lining**. Vertical section

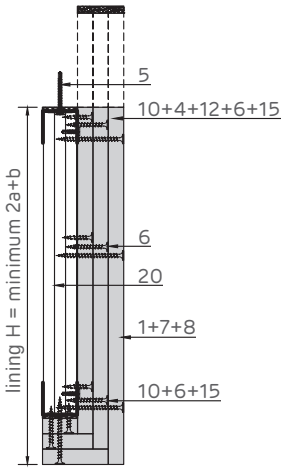


1. 3x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL4 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

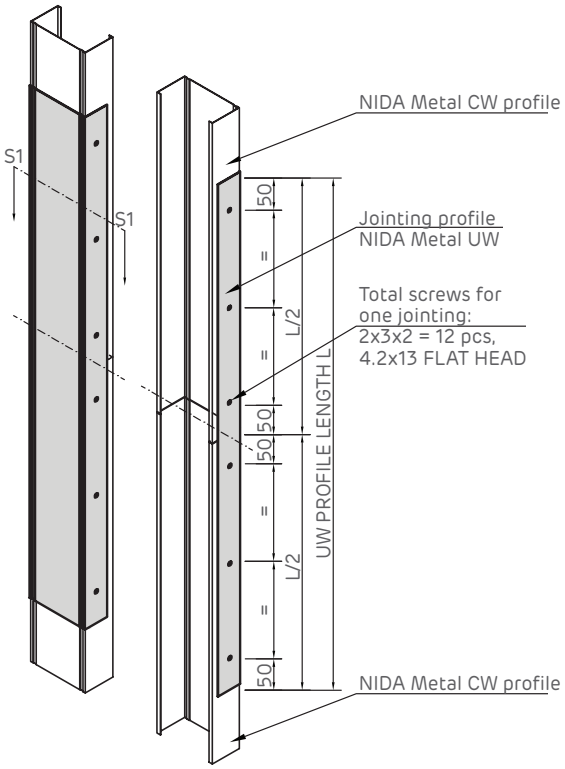
Detailed attachment at the top on the roof profiled sheet.
Fixing on designed support (*5). System perpendicular to the profiles. Vertical section



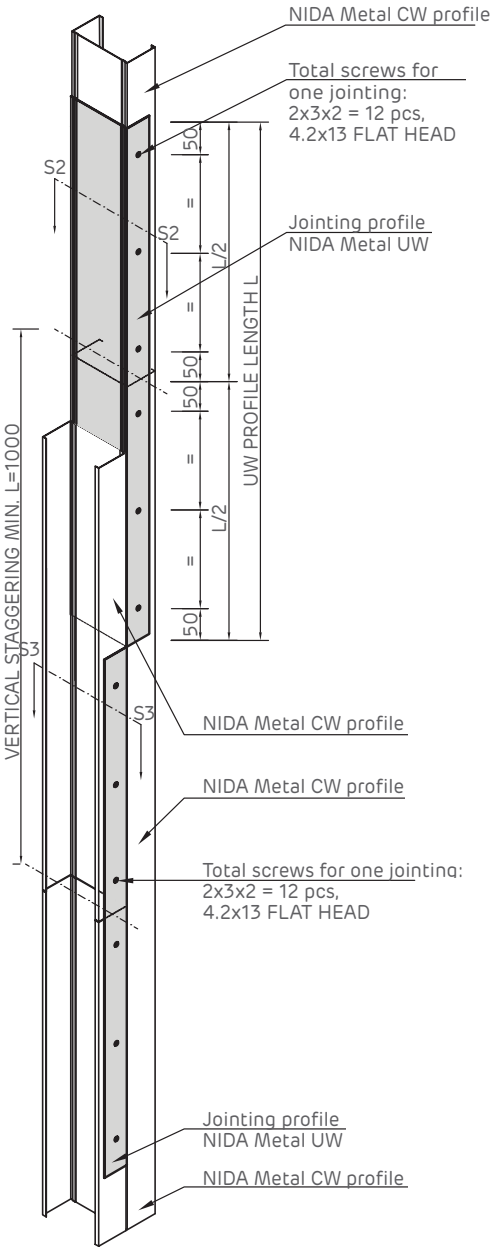
Detail of triple side lining. Vertical section



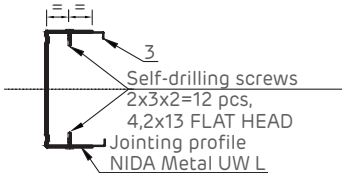
Jointing detail of NIDA Metal CW single profiles.



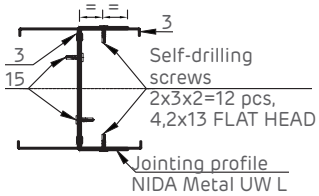
Jointing detail of NIDA Metal CW double profiles.



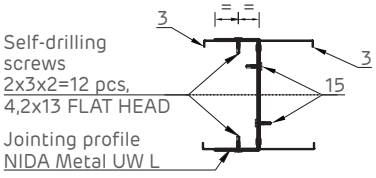
Section S1



Section S2

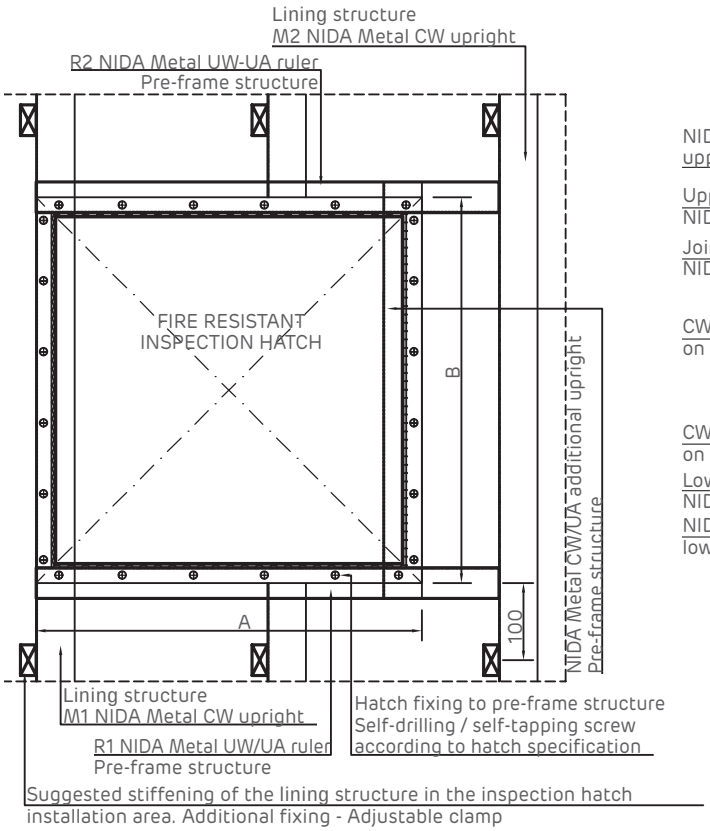


Section S3



N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

Access hatch elevation.

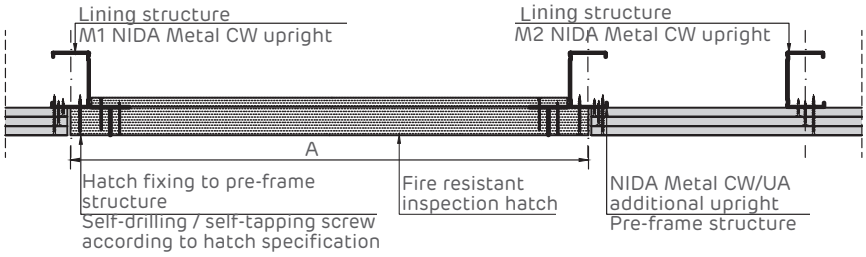


NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

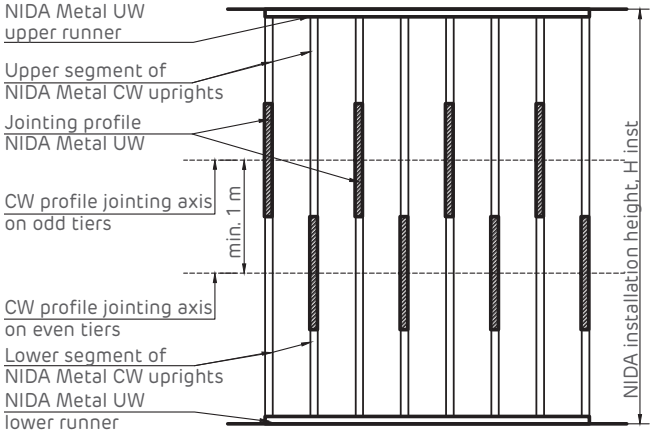
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch.

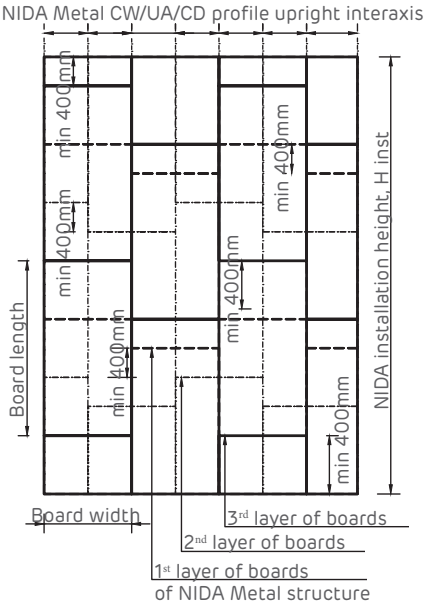


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.

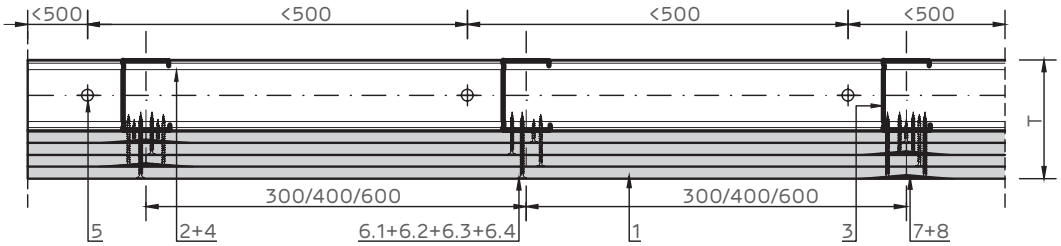


1. 3x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL4 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

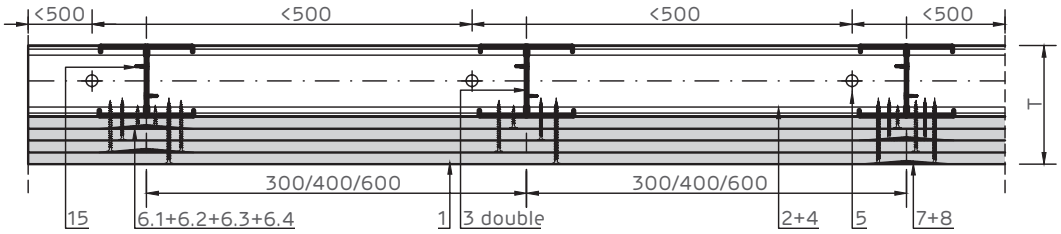
NIDA System SH.CW.I

Shaft-walls with NIDA System SH.CW.I four-layer **lining** on NIDA Metal CW/UW independent support structure

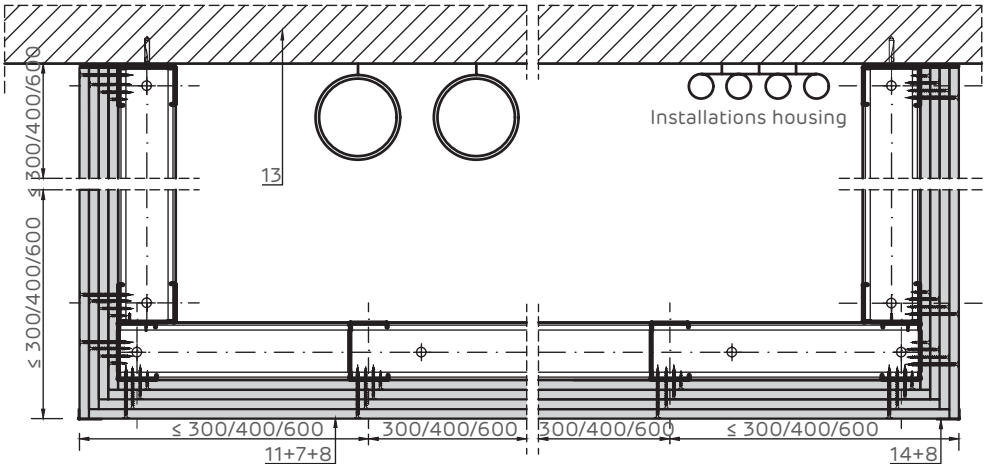
Single NIDA Metal CW upright Horizontal section.



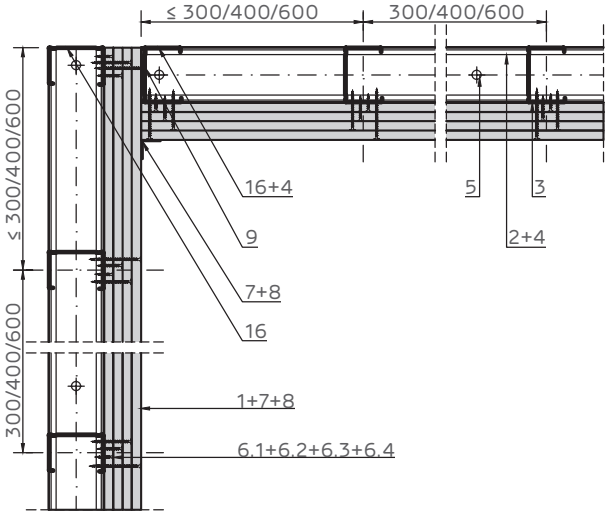
Double NIDA Metal CW upright Horizontal section.



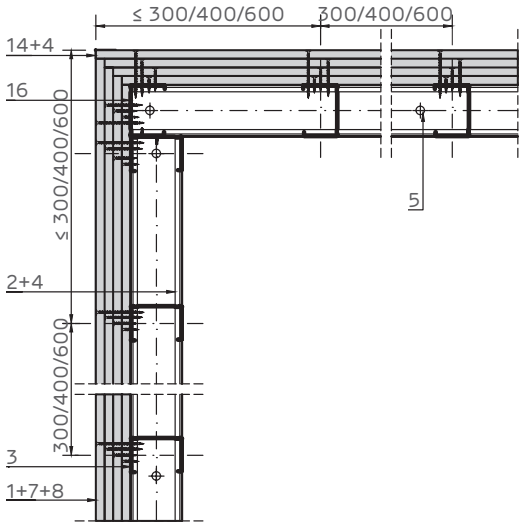
Three-sided enclosing of installations housing Horizontal section.



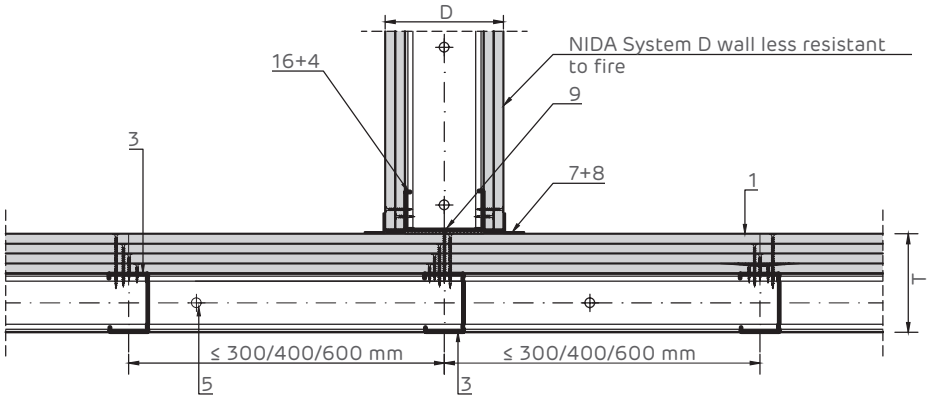
90° corner joint. Horizontal section.



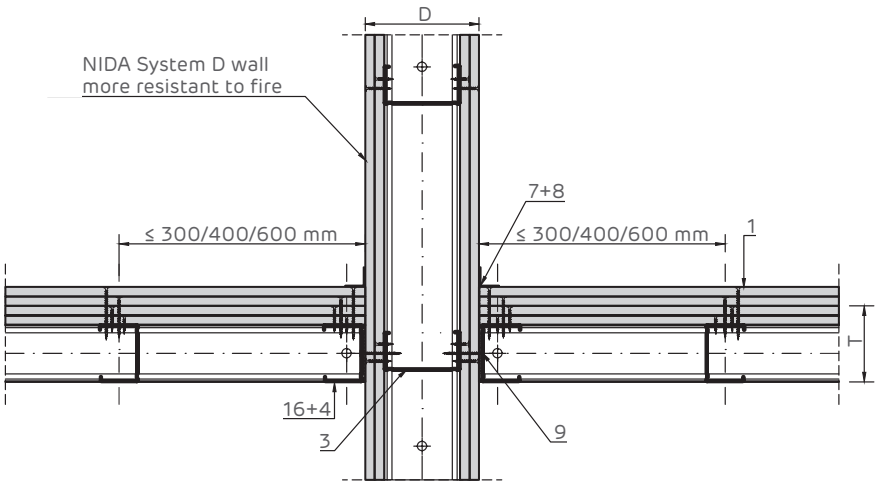
270° corner joint. Horizontal section.



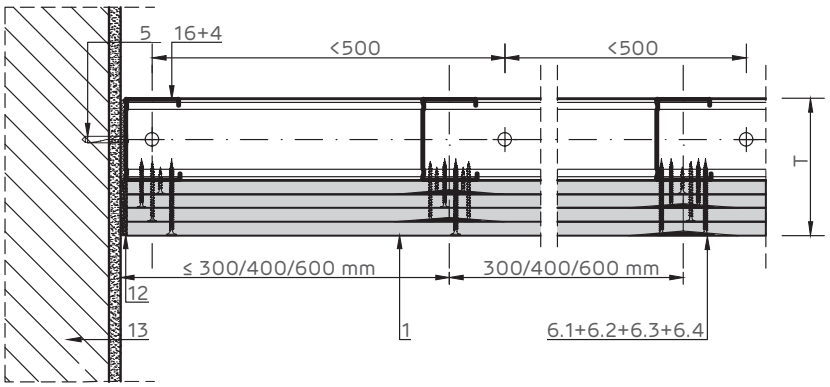
Crossing with D wall less resistant to fire
Horizontal section.



Crossing with D wall more resistant to fire
Horizontal section.

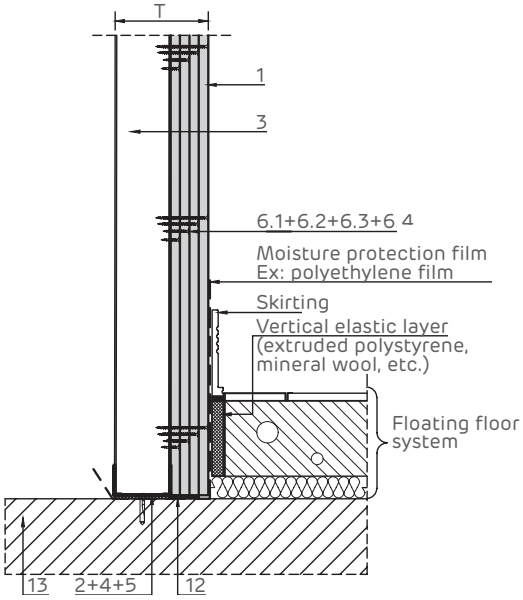


Rigid jointing with sturdy item
Horizontal section.

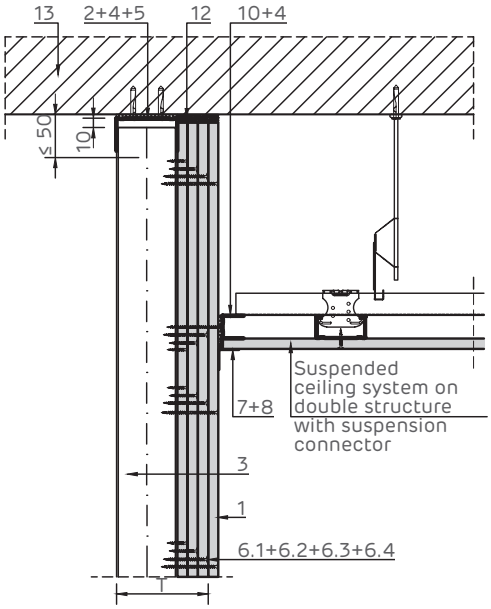


1. 4x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 600
6.4 Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL5 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

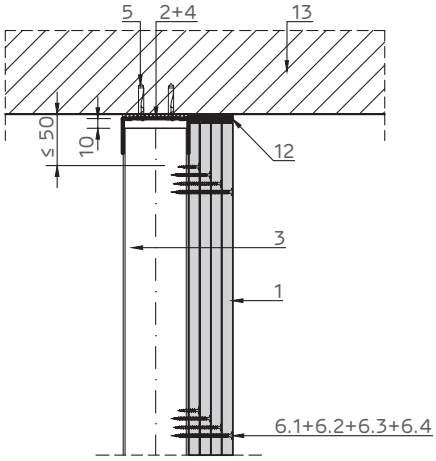
Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.



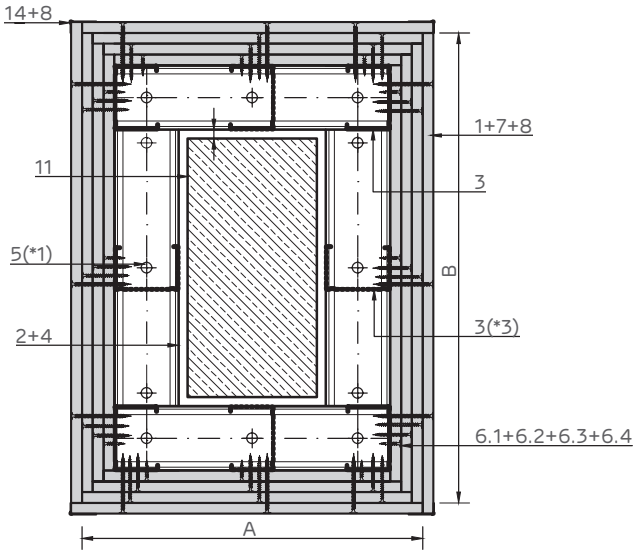
Detailed crossing with suspended ceiling on double structure with adjustable clamp. Vertical section



Detailed attachment at the top on reinforced concrete members. Installation height: H ≤ 5 m. Vertical section.

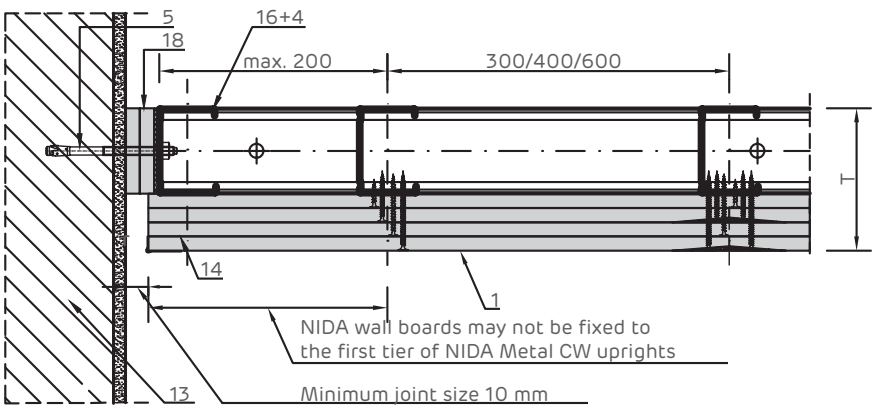


Lining of a wooden item Horizontal section.



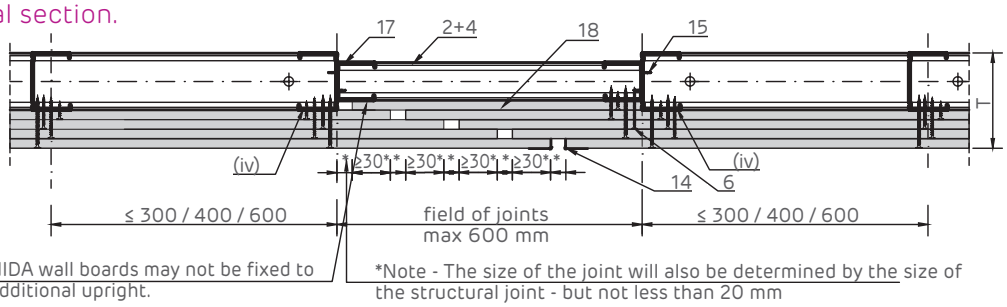
NOTE:
(*1) A minimum of 3 fasteners should be fitted along NIDA Metal UD.
(*3) If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (marked with a dotted line in the plan) should be placed.

Sliding joint with sturdy items. Horizontal section.



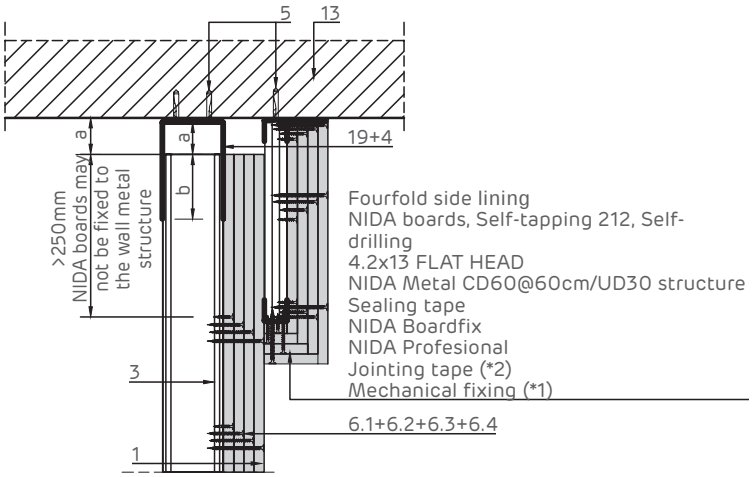
Expansion joint Horizontal section.

NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of **lining** longer than 15 m, a vertical joint should be made every 10 m of the system;
The joint should also be placed in front of structural joints.

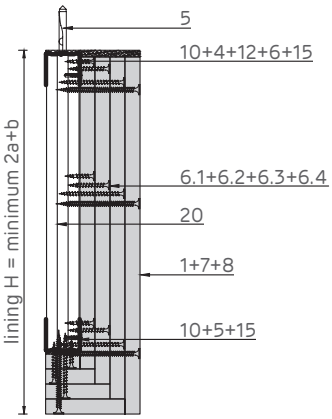


(*) The size of the joint will also be determined by the size of the structural joint, but not less than 20 mm
(**) The overlap of boards should have a minimum size of (* + 10 mm)

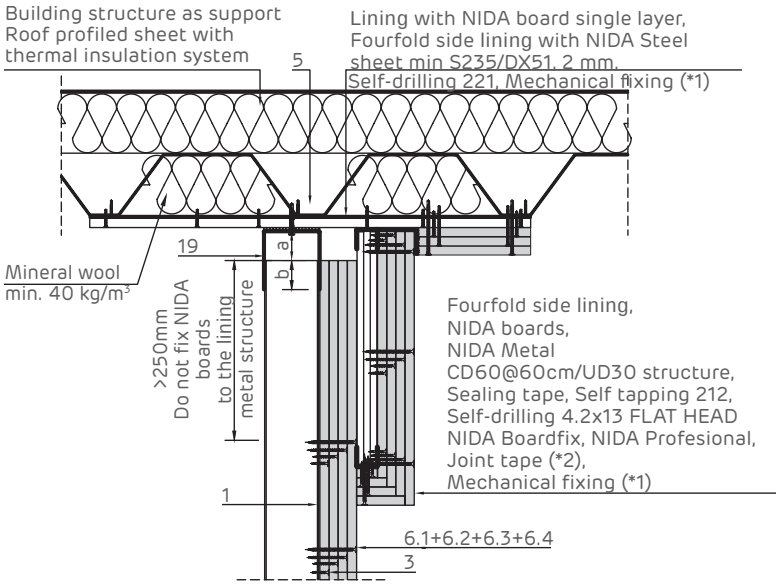
Detailed attachment at the top on reinforced concrete members. Vertical section



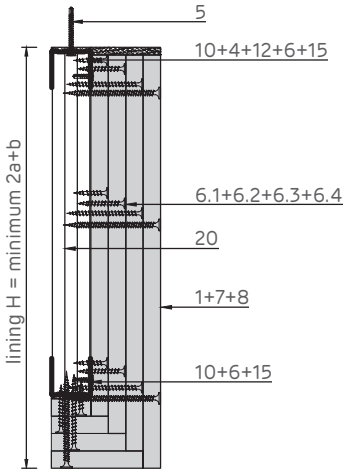
Detail of fourfold side lining. Vertical section



Detailed attachment at the top to the roof profiled sheet. Direct fixing. System parallel to the sheet ribs. Vertical section

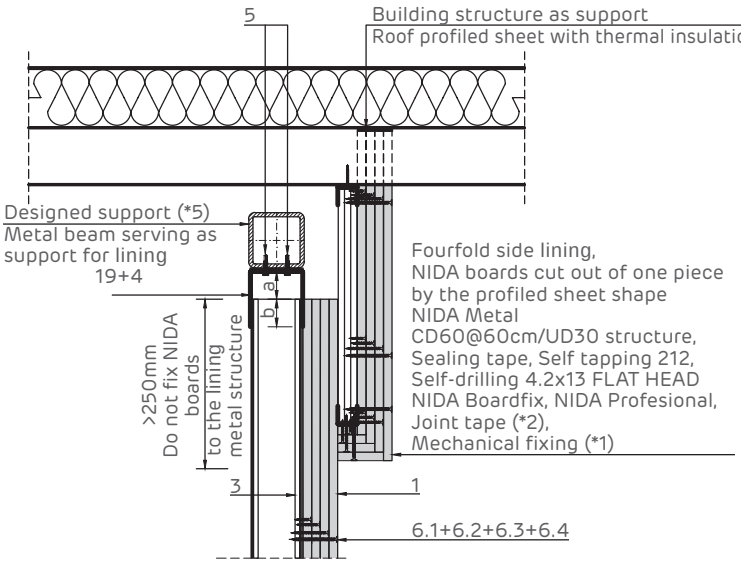


Detail of fourfold side lining Vertical section

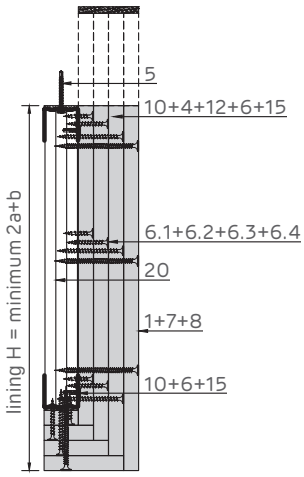


1. 4x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 600
6.4 Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL5 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

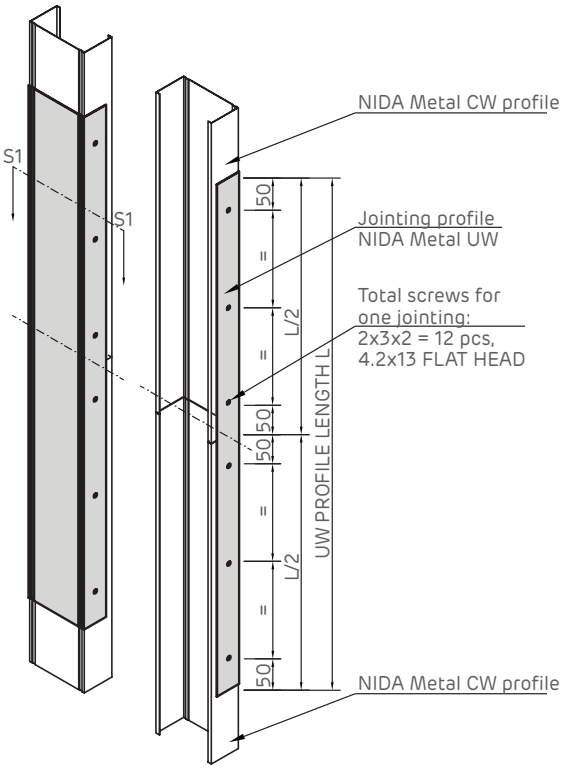
Detailed attachment at the top on the roof profiled sheet.
Fixing on designed support (*5). System perpendicular to the profiles. Vertical section



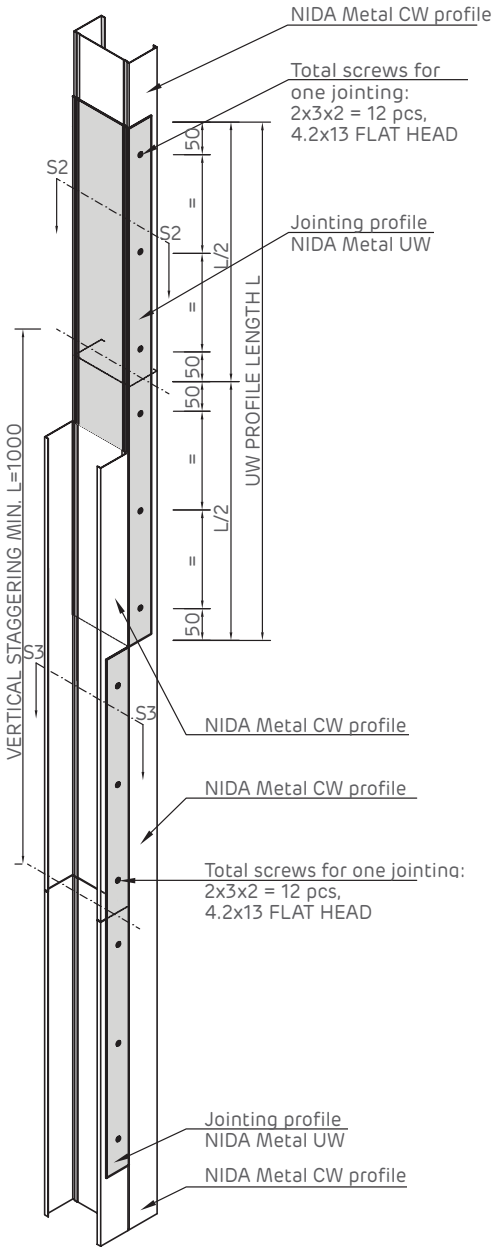
Detail of fourfold side lining
Vertical section



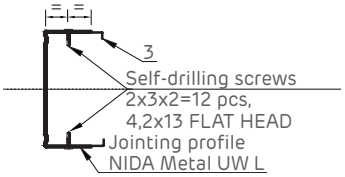
Jointing detail of NIDA Metal CW single profiles.



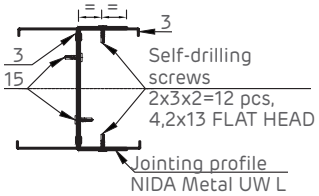
Jointing detail of NIDA Metal CW double profiles.



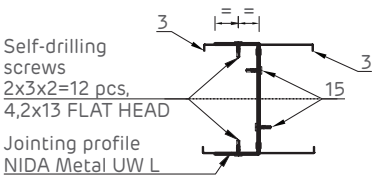
Section S1



Section S2

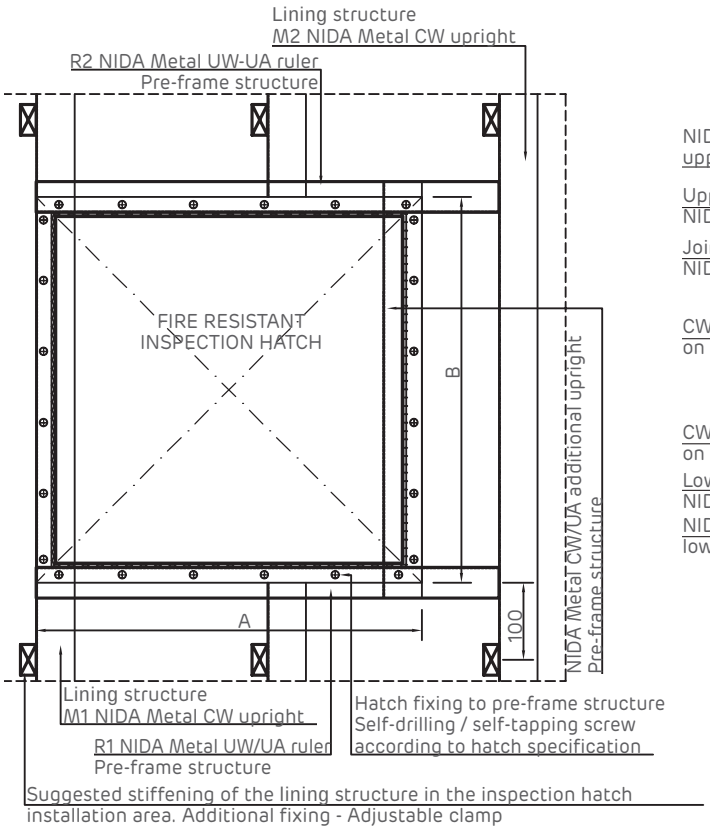


Section S3



N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

Access hatch elevation.



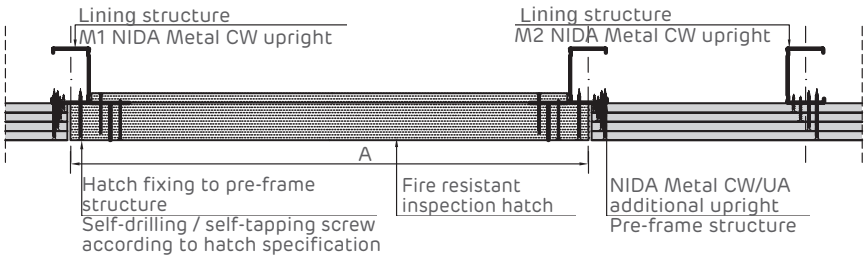
NOTE (*):

The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:

- Hatch sizes (A, B)
- Hatch weight
- Lining height and configuration

M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System lining is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

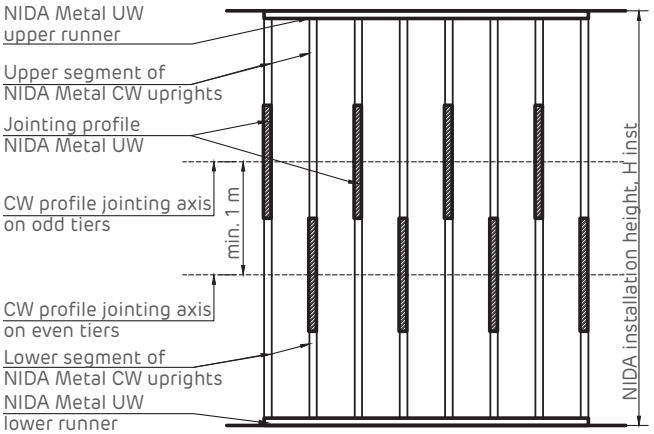
Horizontal section of the inspection hatch.



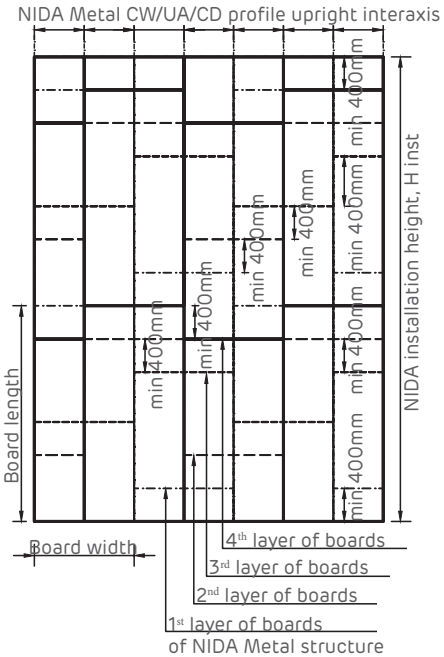
NOTE:

The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.

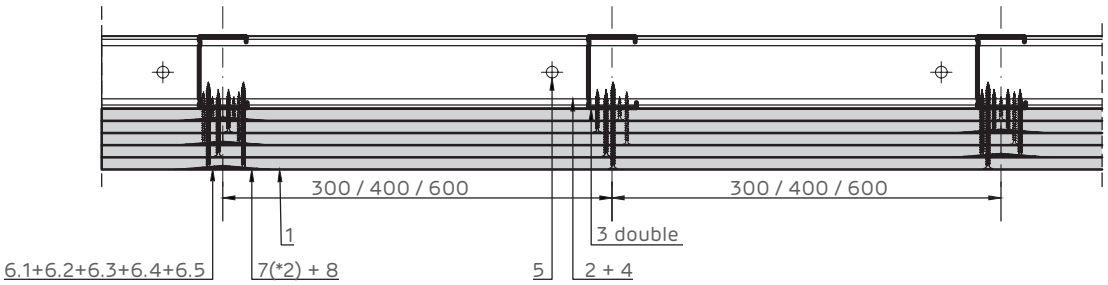


1. 4x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 600
6.4 Self-tapping screw 212xL4 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-tapping screw 212xL5 + flat washer @500mm
10. NIDA Metal UD30 end profile
11. Wooden item
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. NIDA Metal CW end profile
17. NIDA Metal CW additional upright
18. Strip made of Siniat plasterboards
19. Special NIDA Metal UW runner profile (*4)
20. NIDA Metal Cd@60cm profile

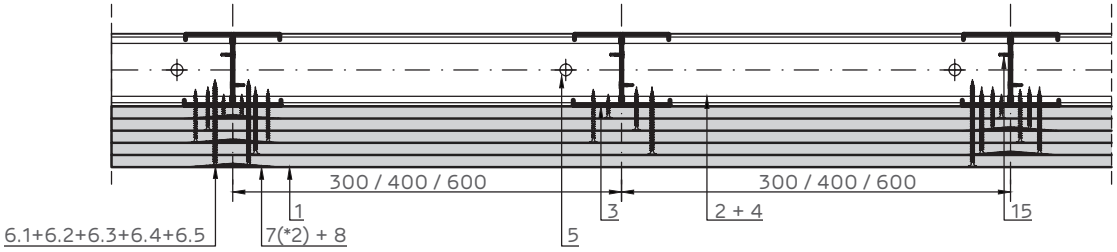
NIDA System SH.CW.I

Shaft-walls with NIDA System SH.CW.I five-layer **lining** on NIDA Metal CW/UW independent support structure

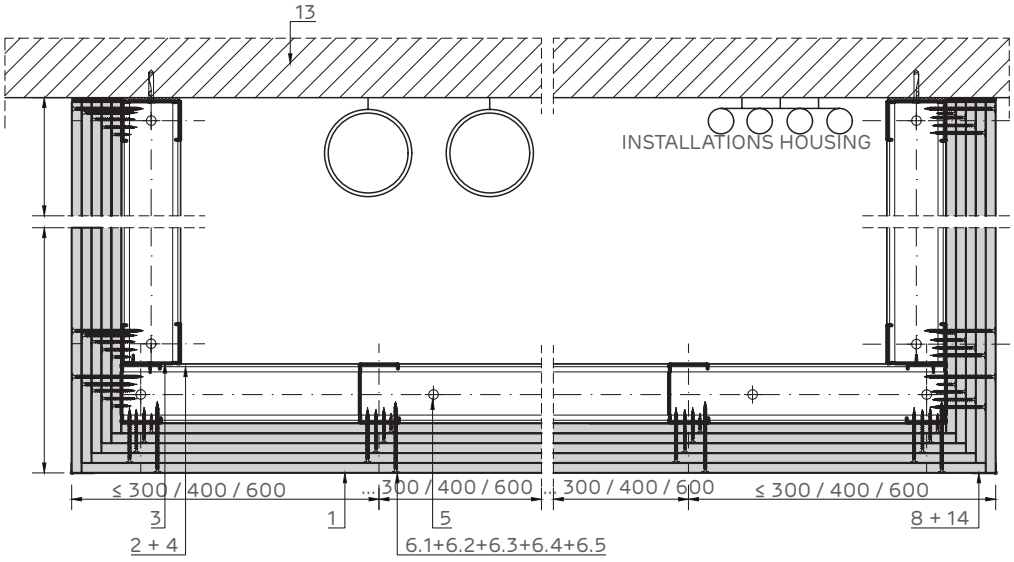
Attachment to stiff support. Horizontal section.



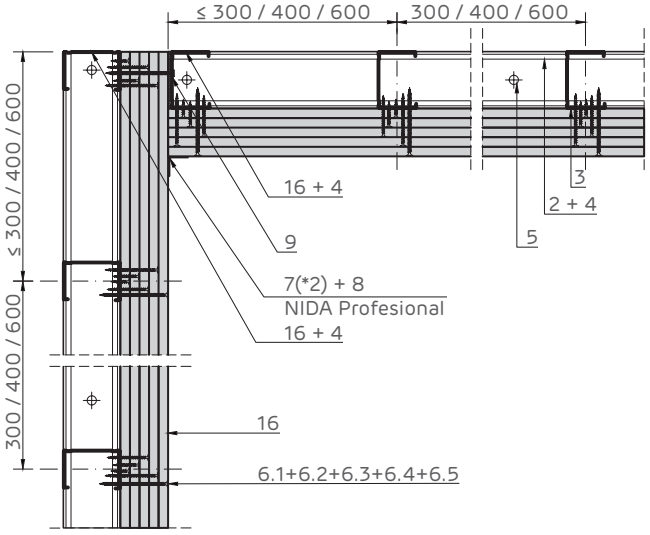
Attachment to stiff support. Horizontal section - double upright



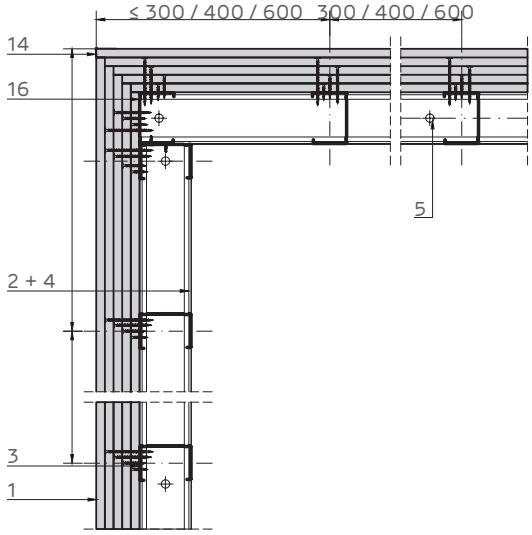
Three-sided enclosing of installations housing Horizontal section.



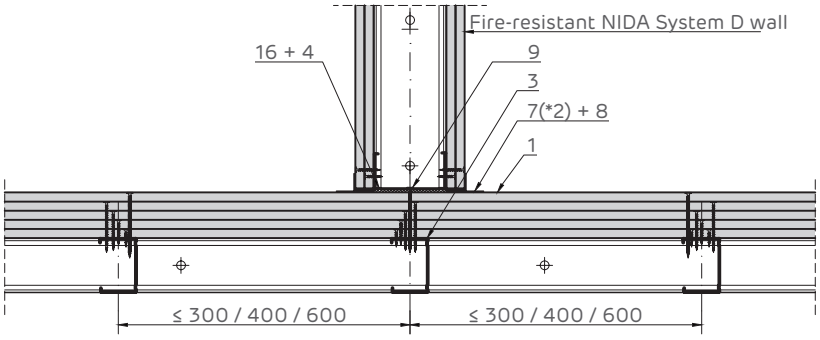
90° corner joint. Horizontal section.



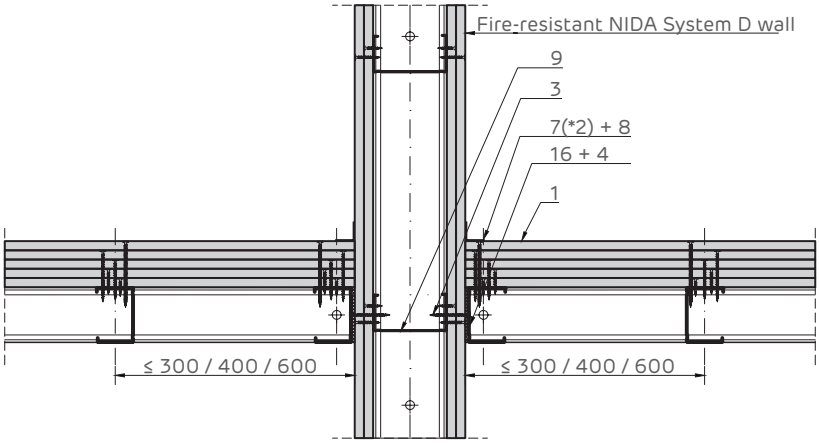
270° corner joint. Horizontal section.



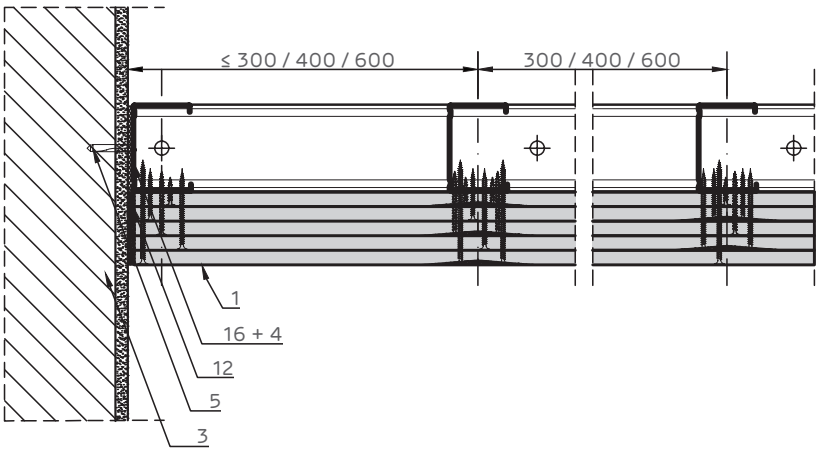
Crossing with D wall
less resistant to fire. Horizontal section.



Crossing with D wall more resistant to fire
Horizontal section.

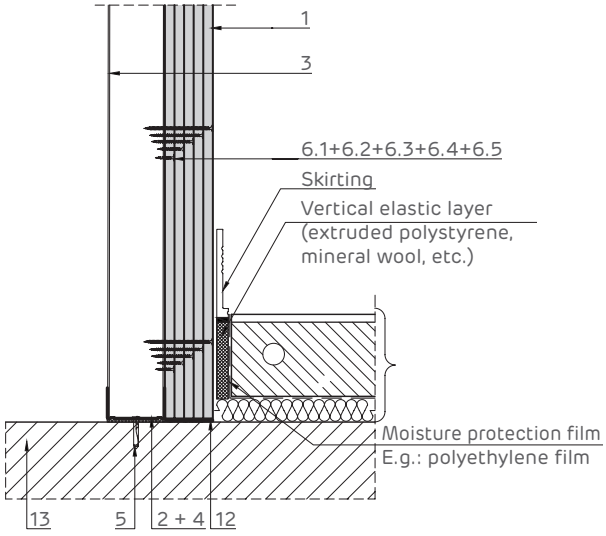


Rigid jointing with sturdy item
Horizontal section.

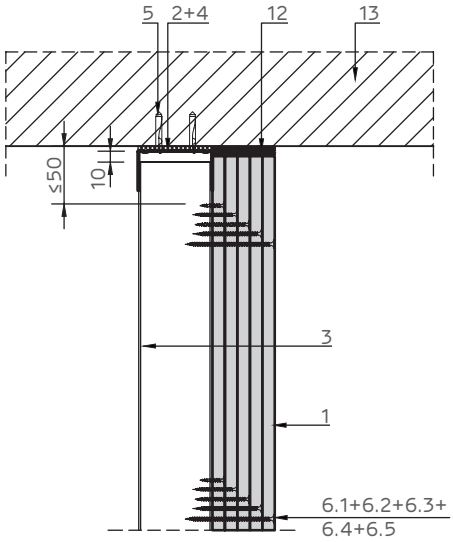


1. 5x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 600
6.4 Self-tapping screw 212xL4 @ 600
6.5 Self-tapping screw 212xL5 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

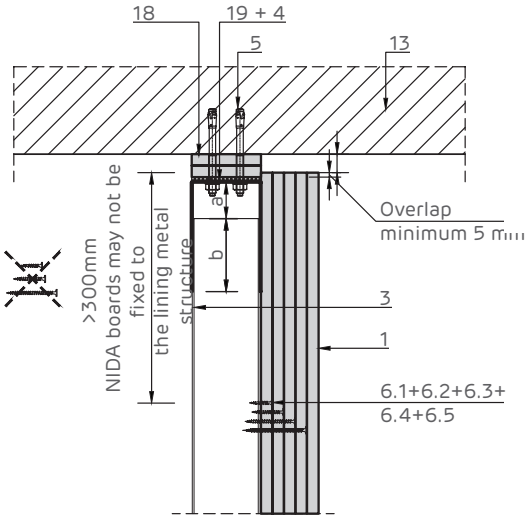
Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.



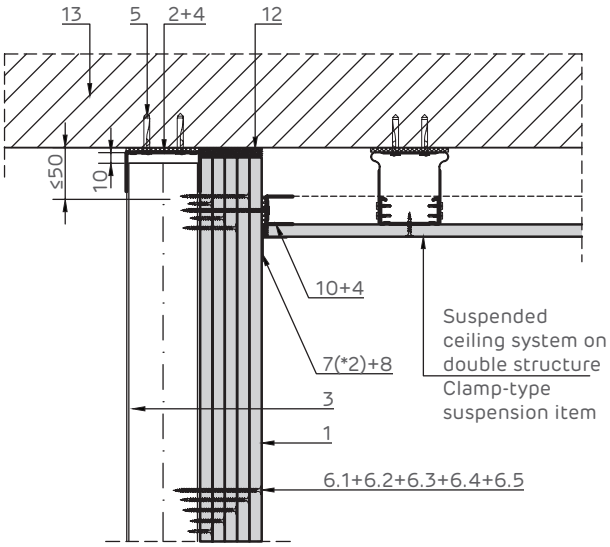
Detailed attachment at the top on reinforced concrete members. Installation height: H ≤ 5 m. Vertical section



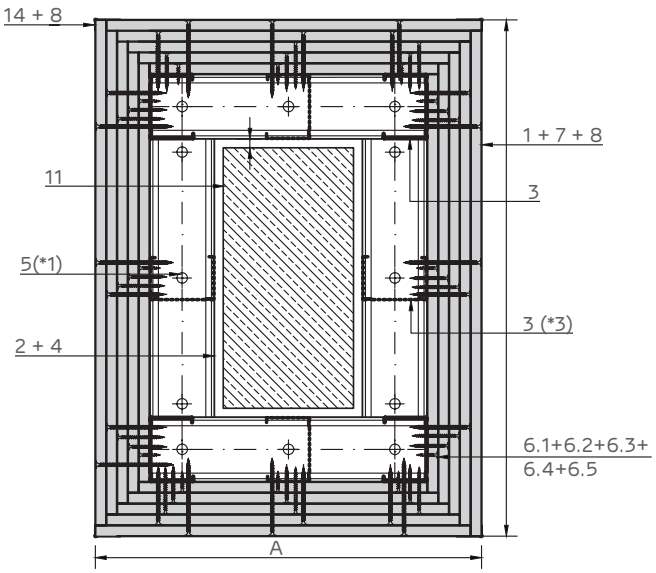
Detailed attachment at the top on reinforced concrete members. Installation height: H ≤ 5 m. Vertical section



Detailed crossing with suspended ceiling on double structure with adjustable clamp. Vertical section

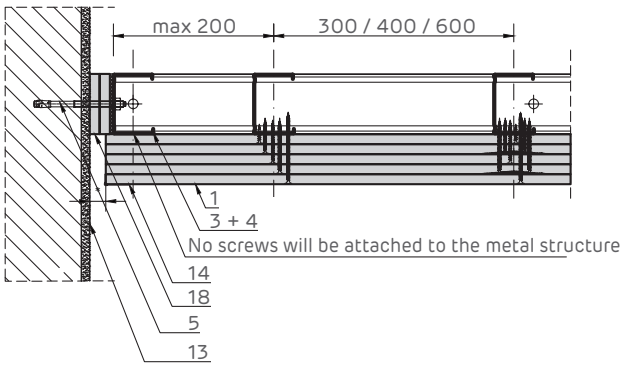


Lining of a wooden item Horizontal section.

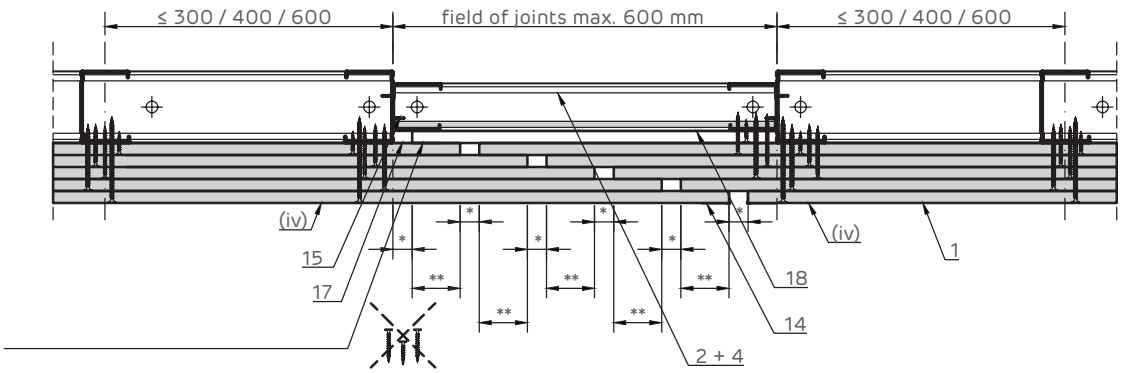


NOTE:
(*1) A minimum of 3 fasteners should be fitted along NIDA Metal UW profile
(*3) If the lining size (A/B) exceeds the maximum value of 600 mm, an additional upright (marked with a dotted line in the plan) should be placed

Sliding joint with sturdy items. Horizontal section.

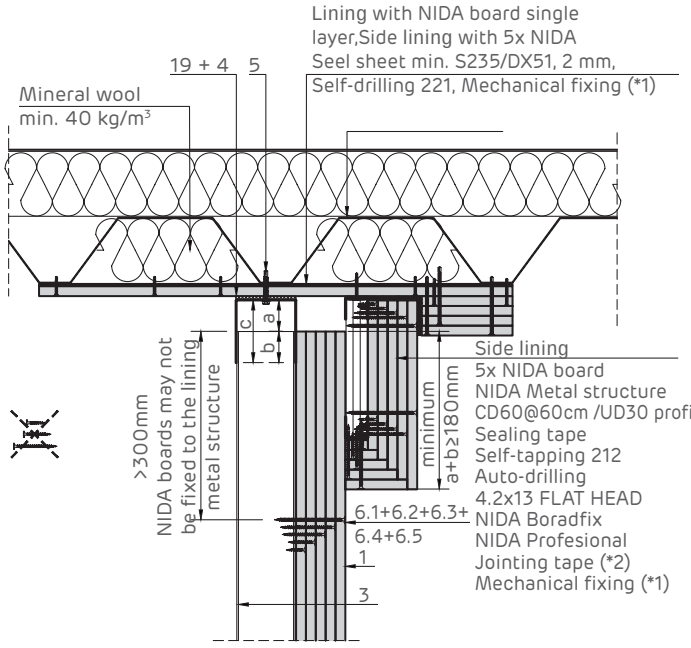


Expansion joint Horizontal section.

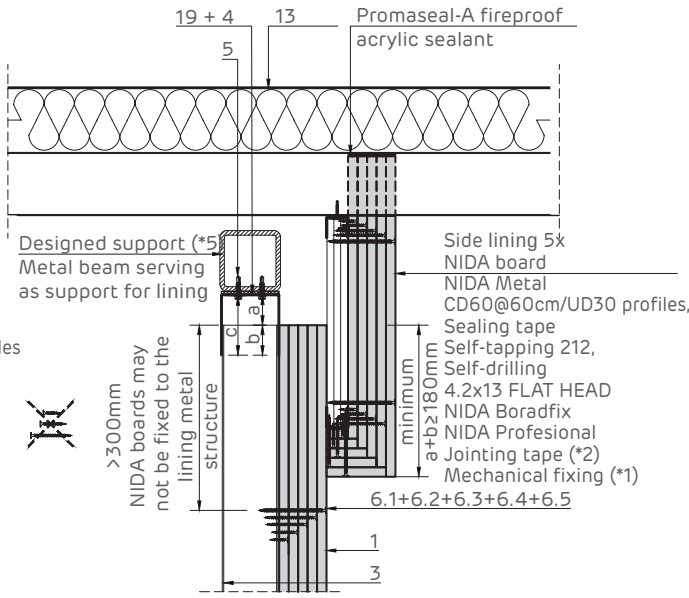


NOTE:
(iv) For the last plasterboard layer, it is not acceptable to make a joint in front of the specified upright.
(v) In the case of lining longer than 15 m, a vertical joint should be made every 10 m of the system;The joint should also be placed in front of structural joints.
* The size of the joint will also be determined by the size of the structural joint

Detailed attachment at the top on roof profiled sheet - Direct fixing. System parallel to the sheet ribs. Vertical section

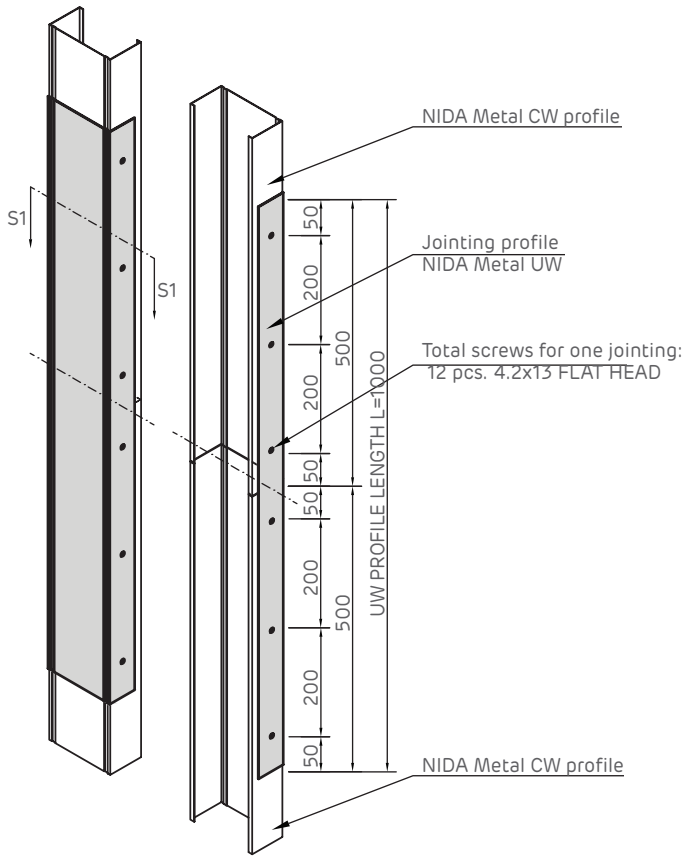


Detailed attachment at the top to the roof profiled sheet - Attachment to designed support (*5). System perpendicular to the profiles. Vertical section



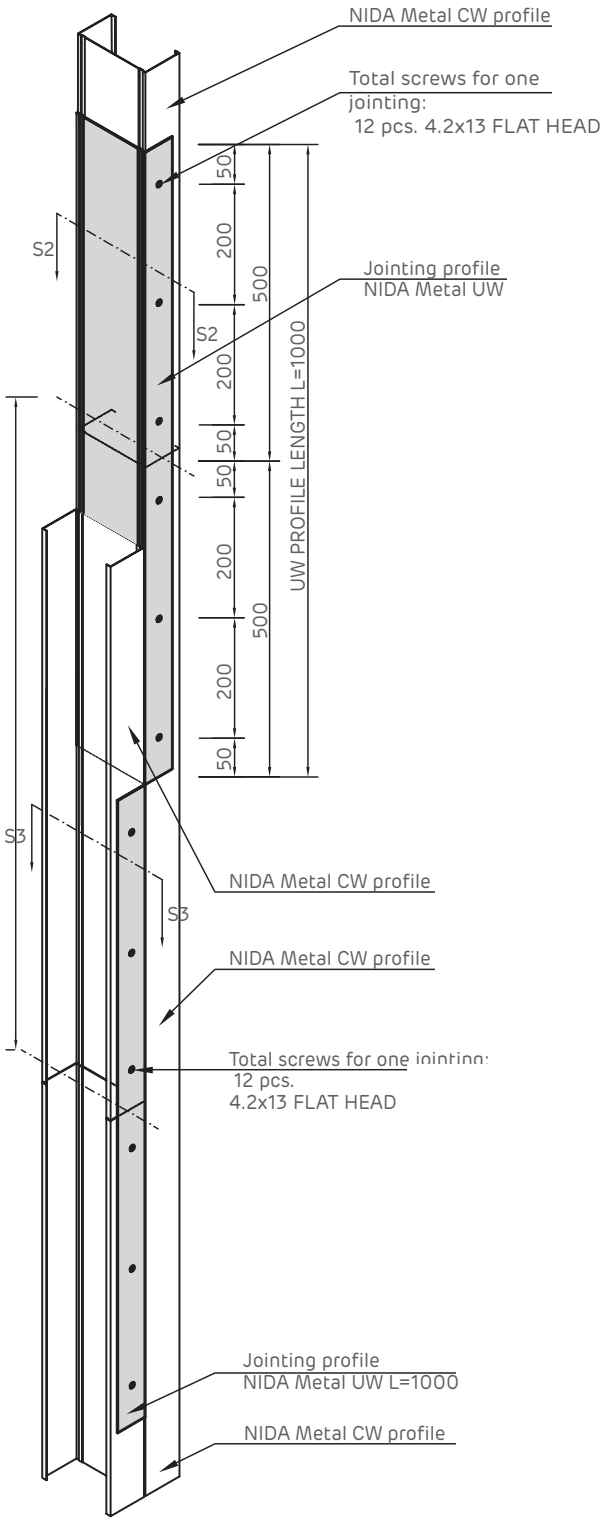
1. 5x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
3.1. Double NIDA Metal CW-H upright profiles
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 600
6.3. Self-tapping screw 212xL3 @ 600
6.4. Self-tapping screw 212xL4 @ 600
6.5. Self-tapping screw 212xL5 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

Jointing detail of NIDA Metal CW single profiles.

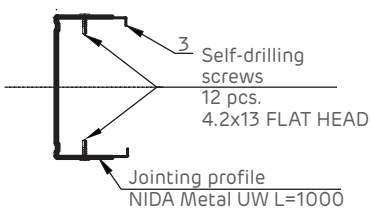


N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

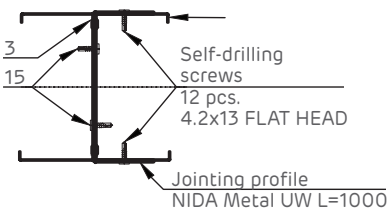
Jointing detail of NIDA Metal CW double profiles.



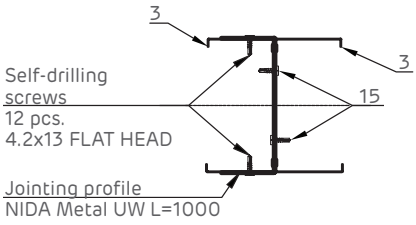
Section S1



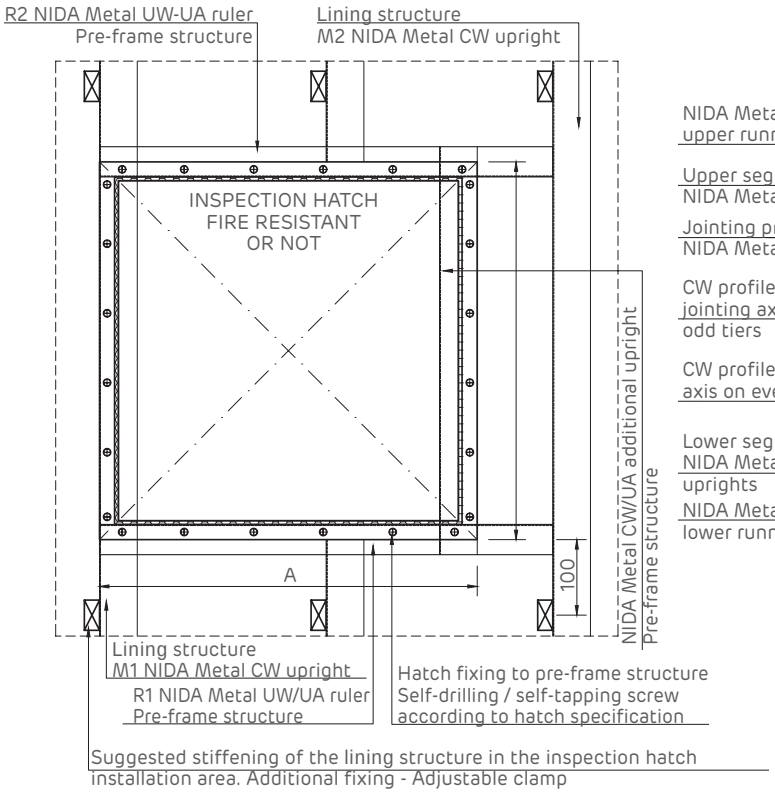
Section S2



Section S3



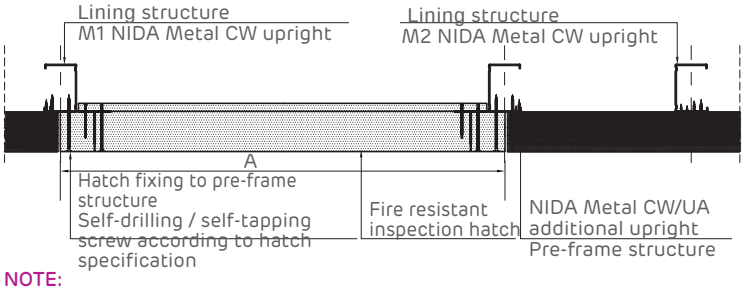
Access hatch elevation.



NOTE (*):
The pre-frame structure (Rulers R1, R2 + Uprights M1, M2) used for fixing the hatch will be sized according to the following points:
- Hatch sizes (A, B)
- Hatch weight
- **Lining** height and configuration

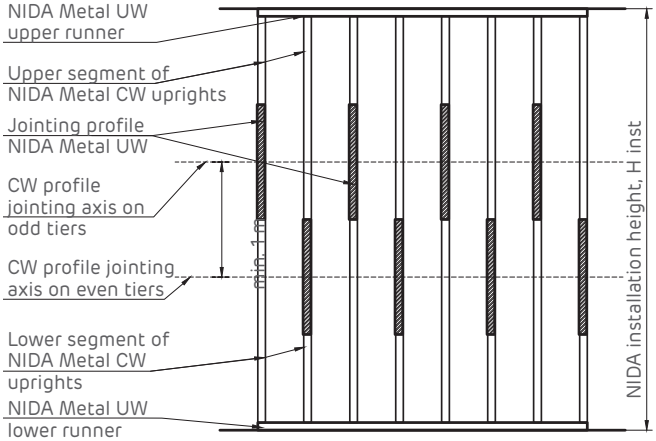
M1, M2 uprights design options: CW, CW - H, UA, UA - H, UA strong box type
R1, R2 rulers design options: UW, UW strong box type, UA strong box type
If the NIDA System **lining** is intended to be fire resistant from both directions, then the installed hatch shall also be fire resistant from both directions.

Horizontal section of the inspection hatch.

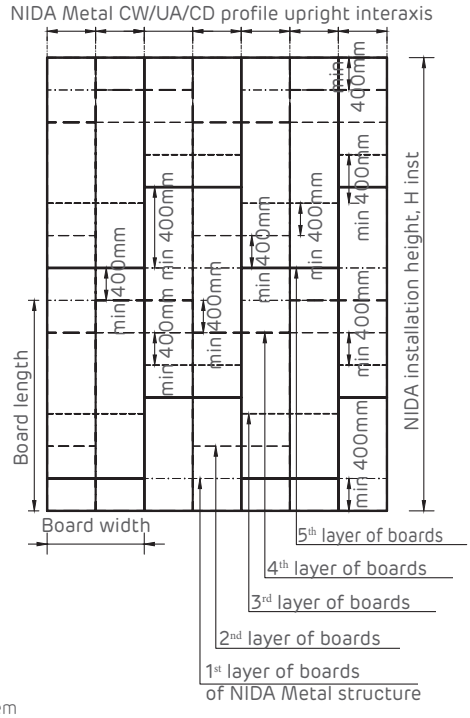


NOTE:
The detail presented is general in nature and focuses on the stiffening of the structure in the hatch installation area.It will be customised according to the model of hatch to be installed in the NIDA system

NIDA Metal CW profile joint staggering. System elevation.



Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap.

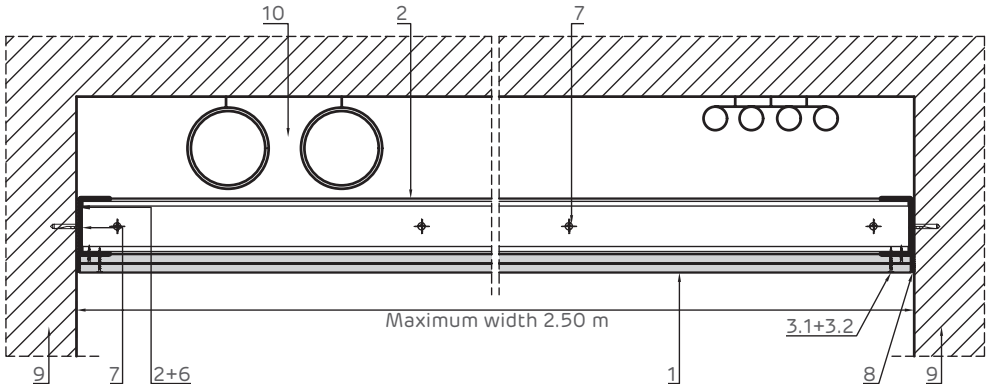


1. 5x Siniat plasterboard
2. NIDA Metal UW runner profile
3. NIDA Metal CW stud
3.1 Double NIDA Metal CW-H upright profiles
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 600
6.4 Self-tapping screw 212xL4 @ 600
6.5 Self-tapping screw 212xL5 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 5.5x25- 2 pcs/fastening
10. Corner iron 200x40x40x2 mm
11. Mechanical fixing (*1) 1 pc/fastening
12. NIDA Boardfix
13. Stiff support (reinforced concrete/brickwork/wood/etc.)
14. Corner protection profile
15. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. MOLLY @ 500 mm metal dowel
17. NIDA Metal CW end profile
18. Self-tapping screw 212xL5 + flat washer @500mm
19. NIDA Metal UD30 end profile

NIDA System SH.W250

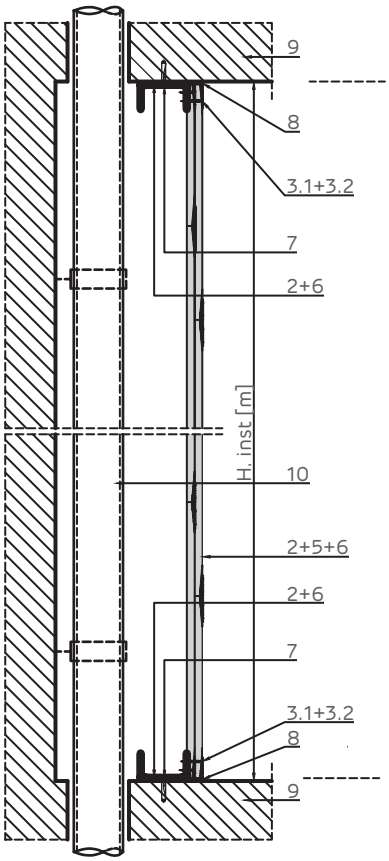
Shaft-walls with NIDA System SH.W250 double-layer **lining** on NIDA Metal CW/UW independent support structure

Horizontal section.

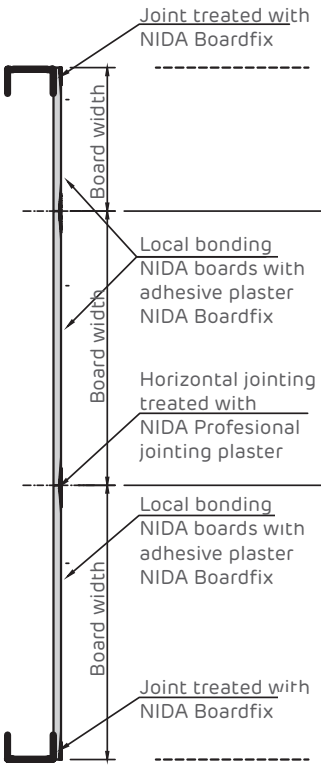


NIDA plasterboard mounting details.
Joint staggering - Vertical section.

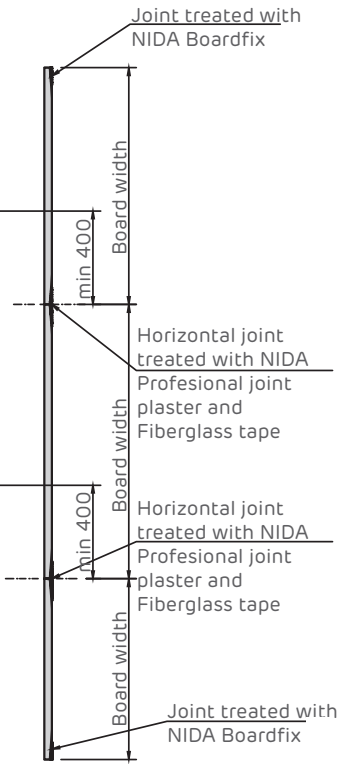
Vertical section



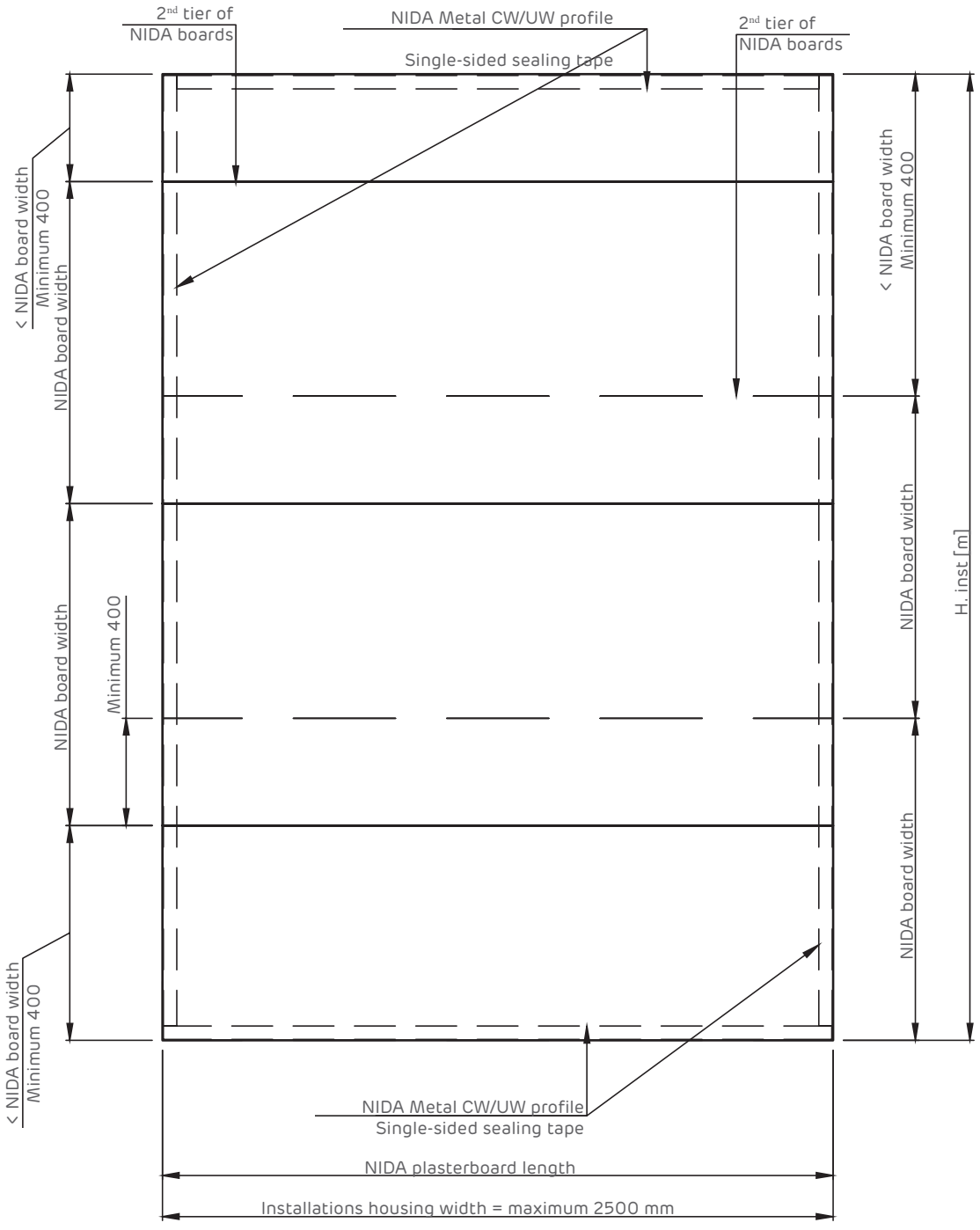
Mounting of tier nº 1 of NIDA boards



Mounting of tier nº 2 of NIDA boards



NIDA plasterboard mounting details. Joint stagger. Elevation.

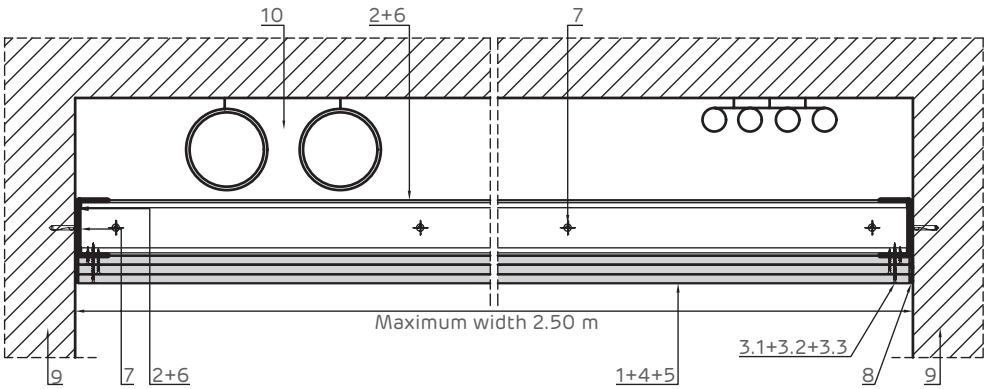


1. 2x Siniat plasterboard
2. NIDA Metal CW/UW profile
3.1 Self-tapping screw 212xL1 @ 600
3.2 Self-tapping screw 212xL2 @ 300
4. Jointing tape (*2)
5. NIDA Profesional jointing plaster
6. Single-sided sealing tape
7. Mechanical fastening (*1) maximum pitch 500 mm (zigzag to the central axis of the profile)
8. NIDA Boardfix adhesive
9. Stiff support (reinforced concrete/brickwork/wood/etc.)
10. Technical space/installations housing

NIDA System SH.W250

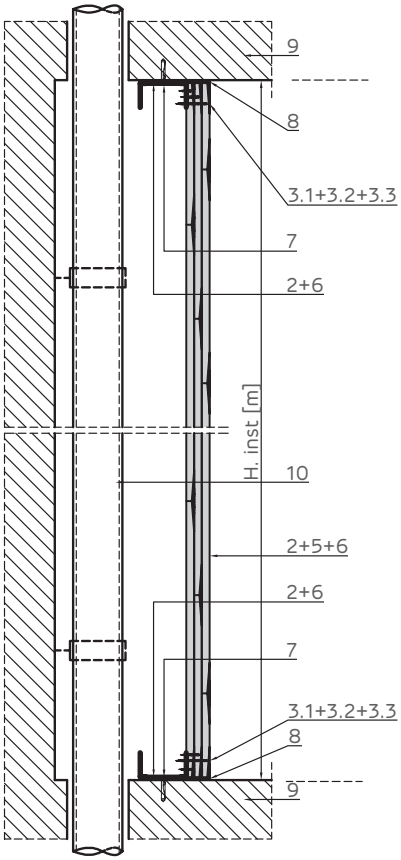
Shaft-walls with NIDA System SH.W250 triple-layer **lining** on NIDA Metal CW/UW independent support structure

Horizontal section.



NIDA plasterboard mounting details.
Joint staggering - Vertical section.

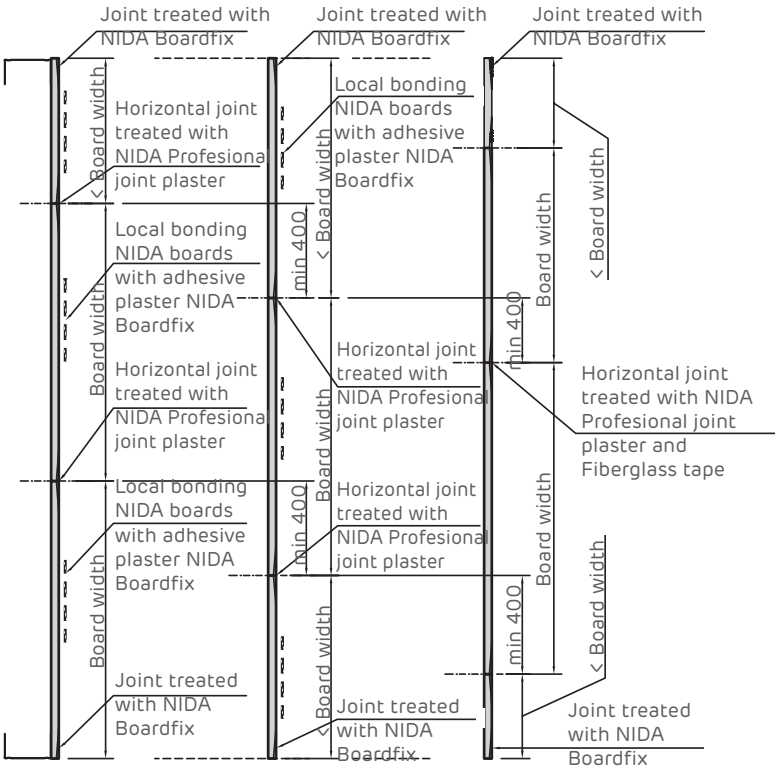
Vertical section



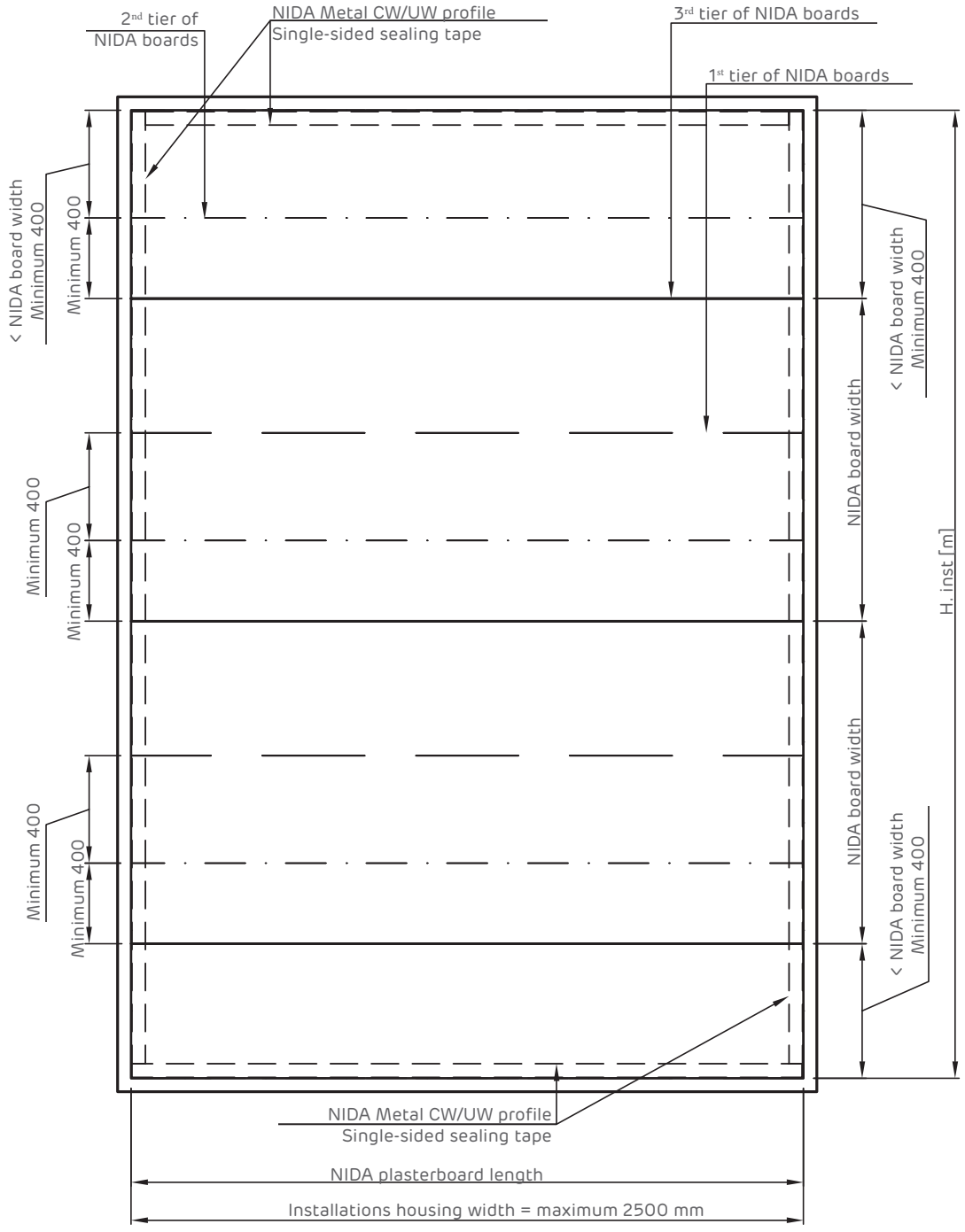
Mounting of tier nº 1 of NIDA boards

Mounting of tier nº 2 of NIDA boards

Mounting of tier nº 3 of NIDA boards



NIDA plasterboard mounting details. Joint stagger. Elevation.

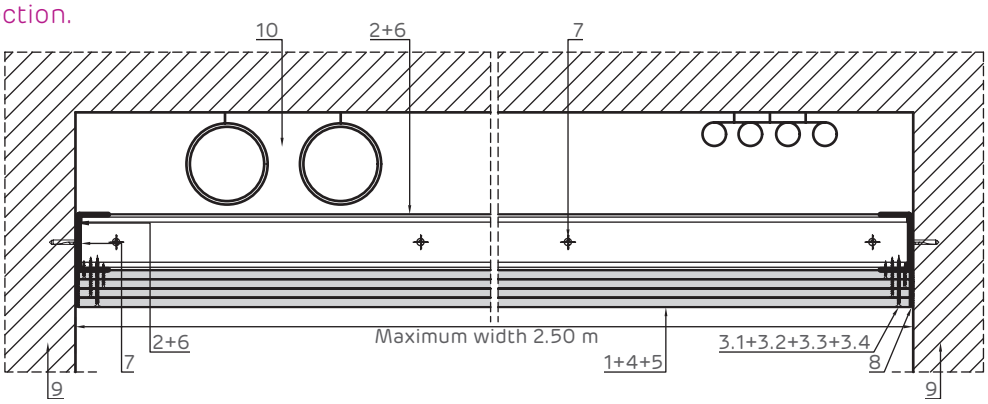


1. 3x Siniat plasterboard
2. NIDA Metal CW/UW profile
3.1 Self-tapping screw 212xL1 @ 600
3.2 Self-tapping screw 212xL2 @ 600
3.3 Self-tapping screw 212xL3 @ 300
4. Jointing tape (*2)
5. NIDA Profesional jointing plaster
6. Single-sided sealing tape
7. Mechanical fastening (*1) maximum pitch 500 mm (zigzag to the central axis of the profile)
8. NIDA Boardfix adhesive
9. Stiff support (reinforced concrete/brickwork/wood/etc.)
10. Technical space/installations housing

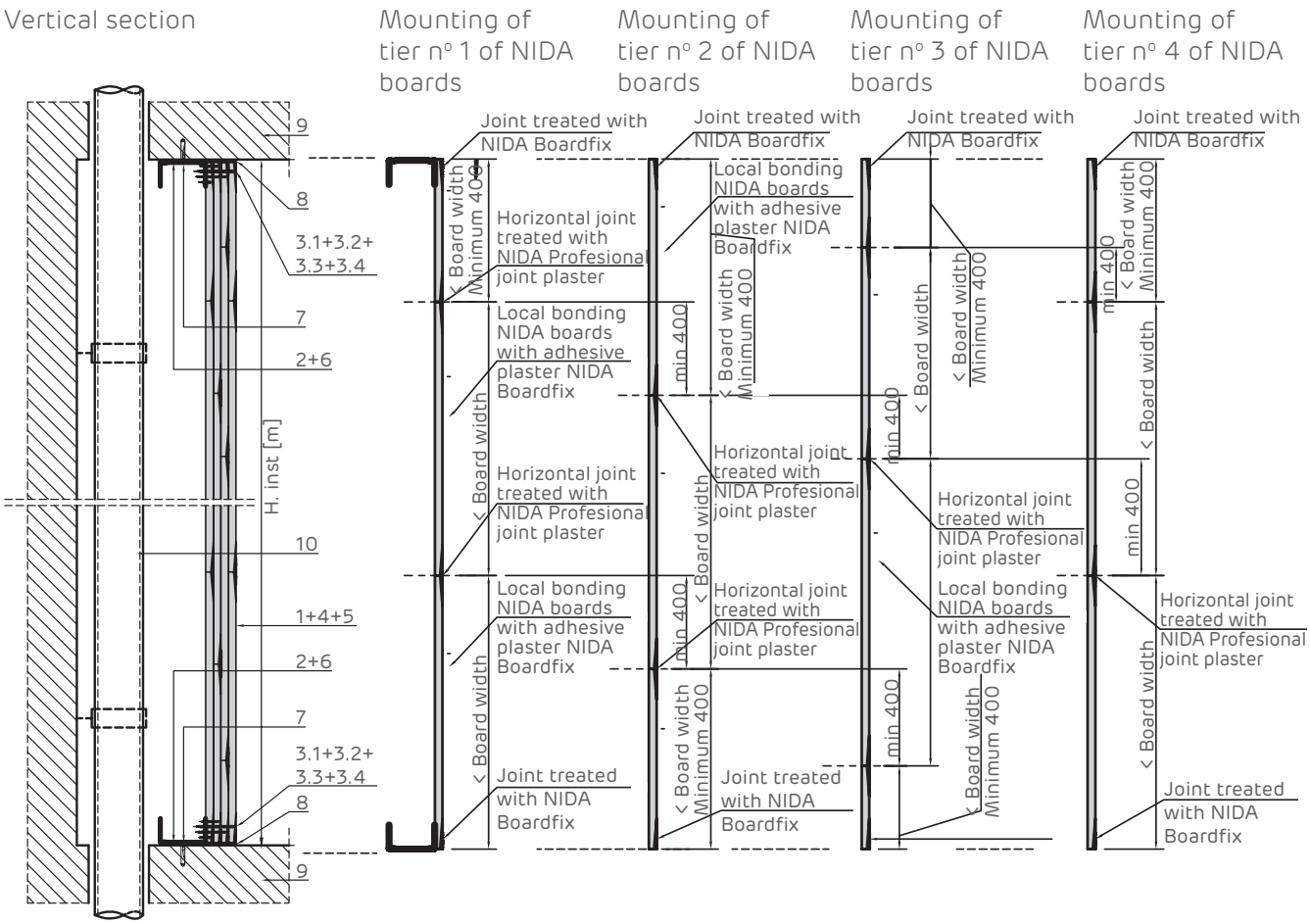
NIDA System SH.W250

Shaft-walls with NIDA System SH.W250 four-layer lining on NIDA Metal CW/UW independent support structure

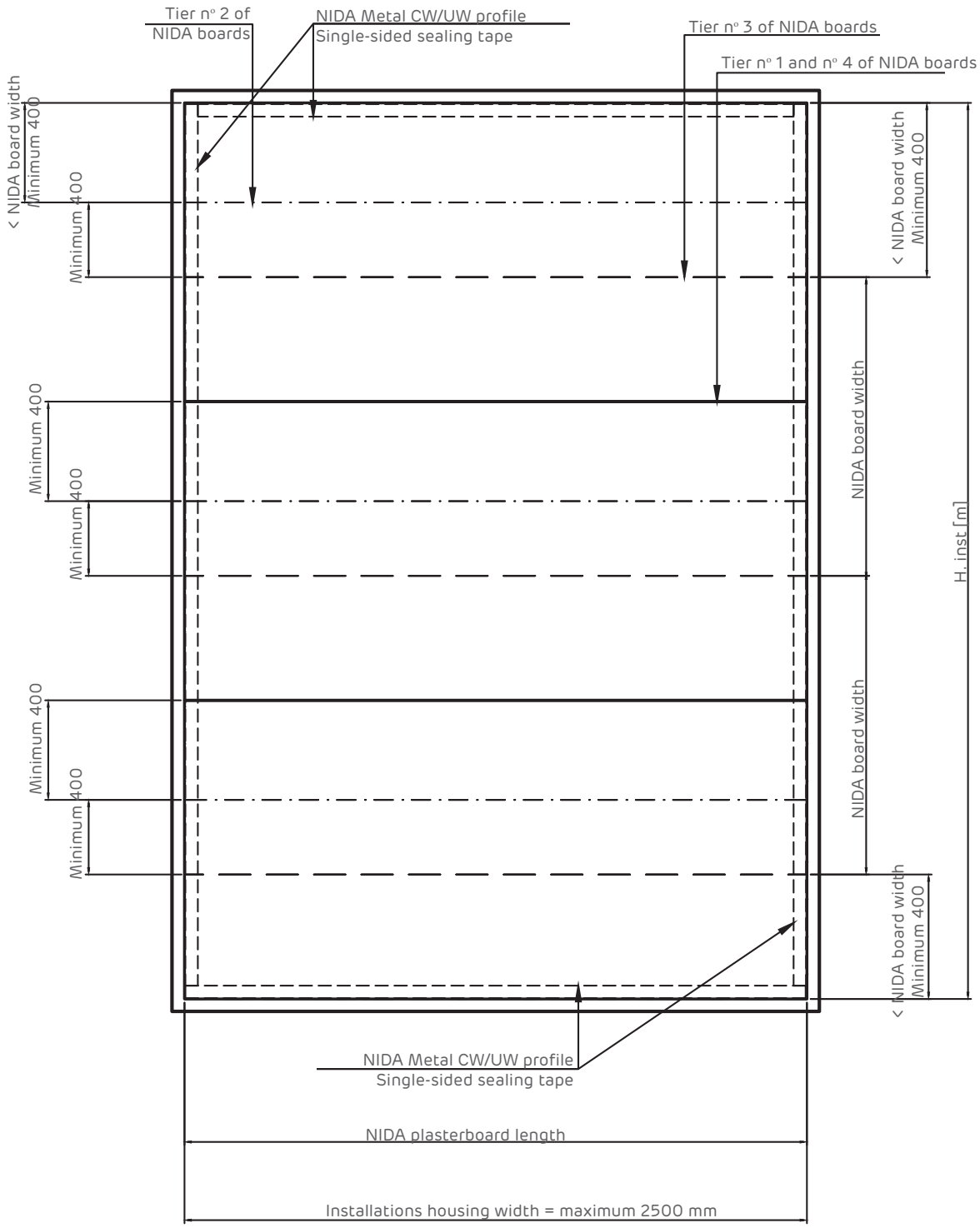
Horizontal section.



NIDA plasterboard mounting details.
Joint staggering - Vertical section.



NIDA plasterboard mounting details. Joint stagger. Elevation.

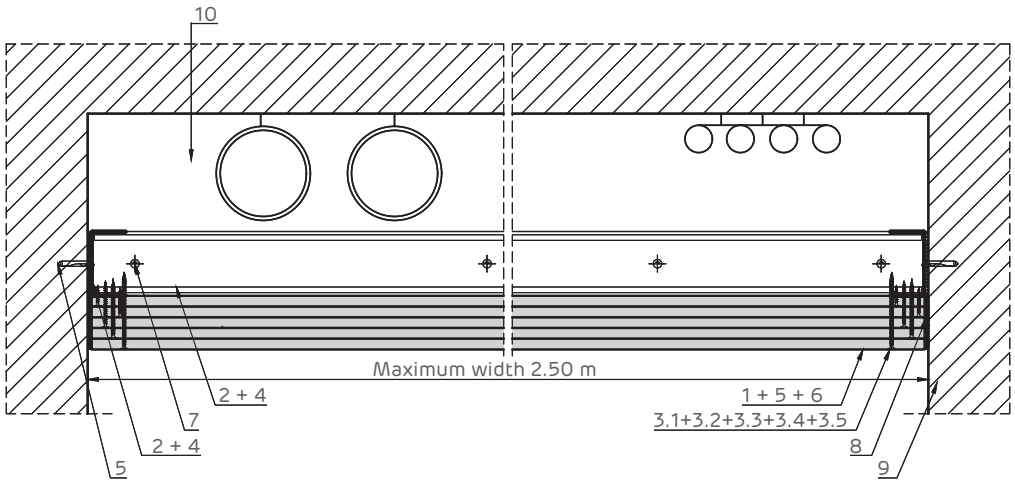


1. 4x Siniat plasterboard
2. NIDA Metal CW/UW profile
3.1 Self-tapping screw 212xL1 @ 600
3.2 Self-tapping screw 212xL2 @ 600
3.3 Self-tapping screw 212xL3 @ 600
3.4 Self-tapping screw 212xL4 @ 300
4. Jointing tape (*2)
5. NIDA Profesional jointing plaster
6. Single-sided sealing tape
7. Mechanical fastening (*1) maximum pitch 500 mm (zigzag to the central axis of the profile)
8. NIDA Boardfix adhesive
9. Stiff support (reinforced concrete/brickwork/wood/etc.)
10. Technical space/installations housing

NIDA System SH.W250

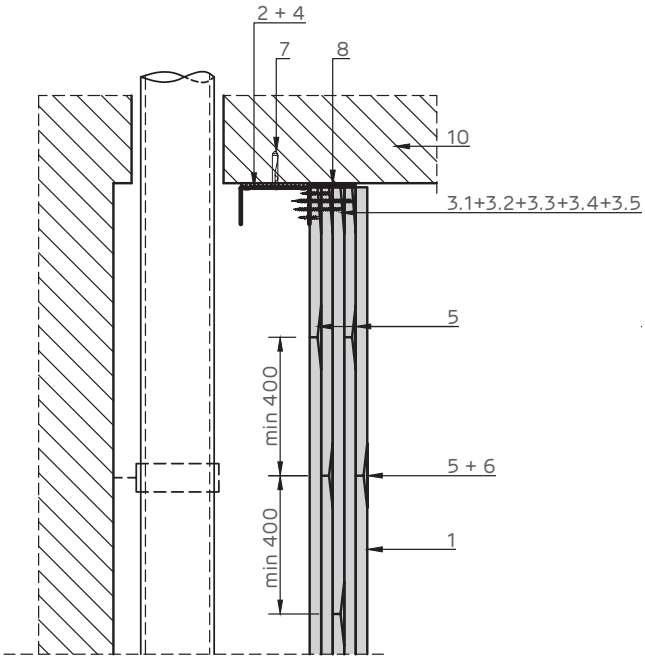
NIDA System SH.W250 five-layer lining on NIDA Metal CW/UW structure

Horizontal section.

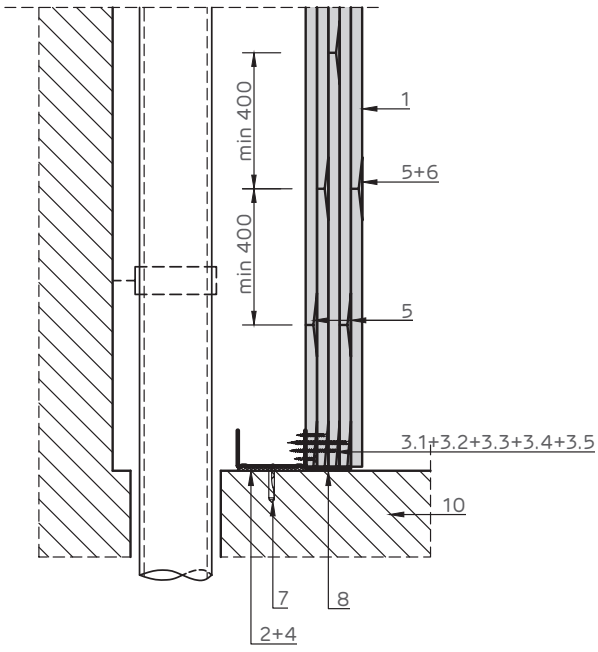


NOTE:
NIDA plasterboards are to be mounted long-sided horizontally, using one-piece boards!!!
Vertical joints between plasterboards are not allowed in the field area of the lining!!!

Mounting details Attachment at the top Vertical section



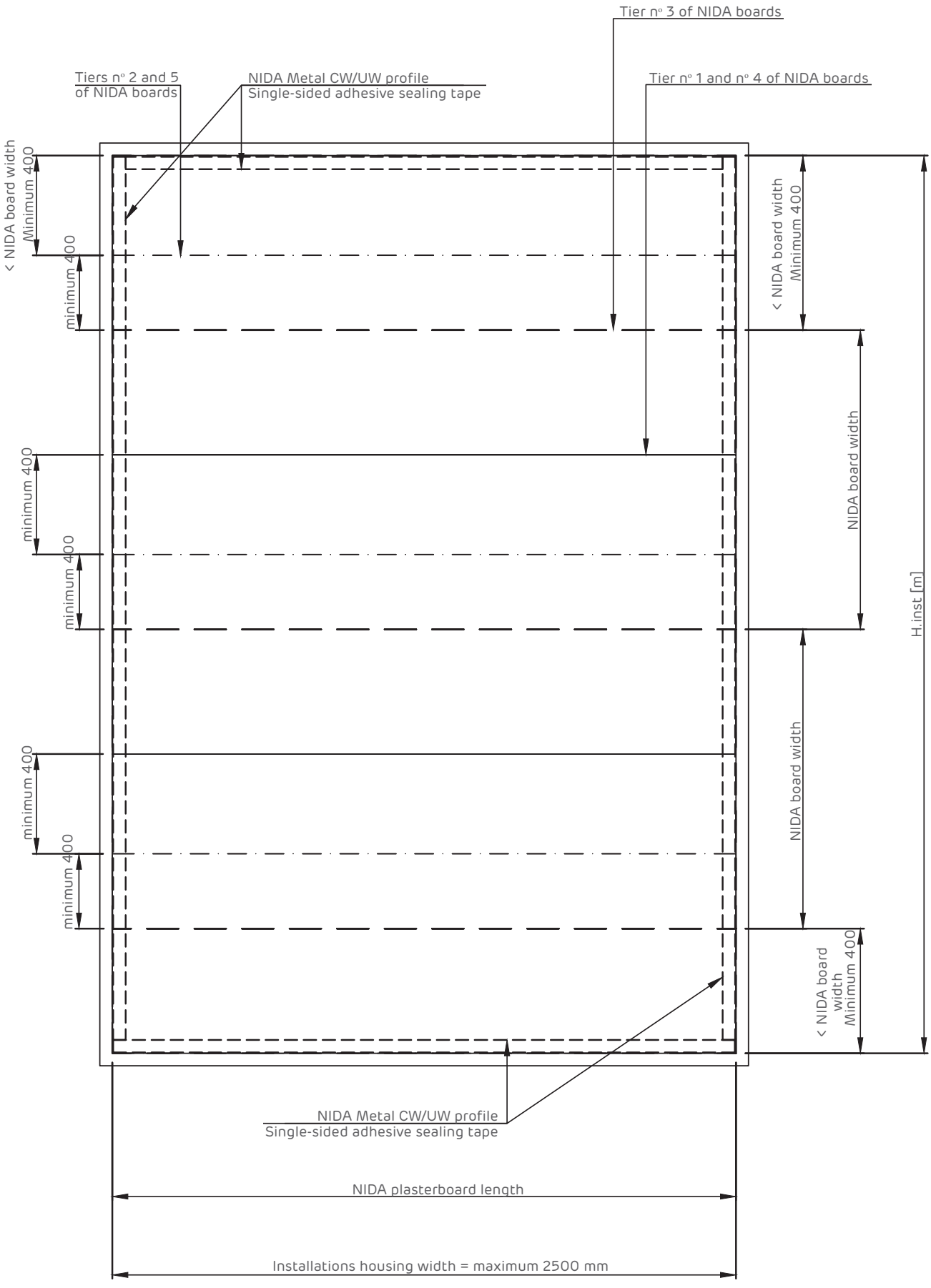
Mounting details Attachment at the bottom. Vertical section



NOTE:
NIDA plasterboards are to be mounted long-sided horizontally, using one-piece boards!!!
Vertical joints between plasterboards are not allowed in the field area of the lining!!!

1. 5x Siniat plasterboard locally bonded with Boardfix
2. NIDA Metal CW/UW profile
3.1 Self-tapping screw 212xL1 @ 600
3.2 Self-tapping screw 212xL2 @ 600
3.3 Self-tapping screw 212xL3 @ 600
3.4 Self-tapping screw 212xL4 @ 600
3.5 Self-tapping screw 212xL5 @ 300
4. Jointing tape (*2)
5. NIDA Profesional jointing plaster
6. Single-sided adhesive sealing tape
7. Mechanical fixing(* 1) maximum 500 mm pitch (In zigzag to the profile centerline)
8. NIDA Boardfix adhesive
9. Stiff support (reinforced concrete/brickwork/wood/ metal structure, ACC)
10. Technical space/installations housing

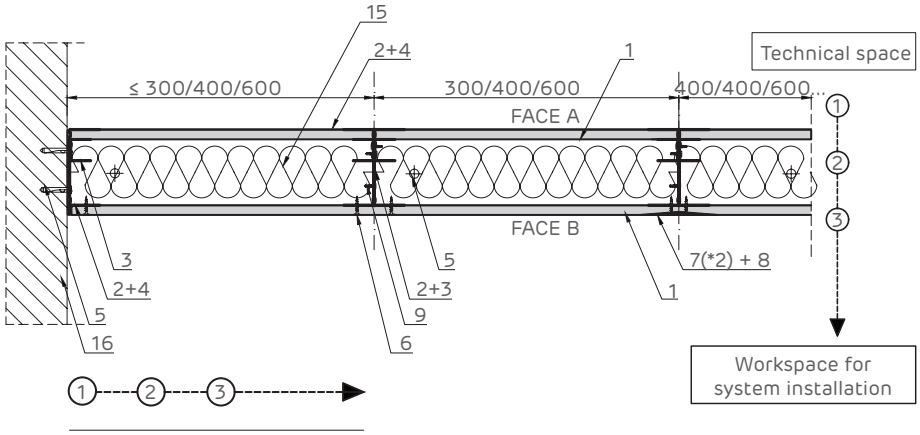
NIDA plasterboard mounting details. Joint stagger. Elevation.



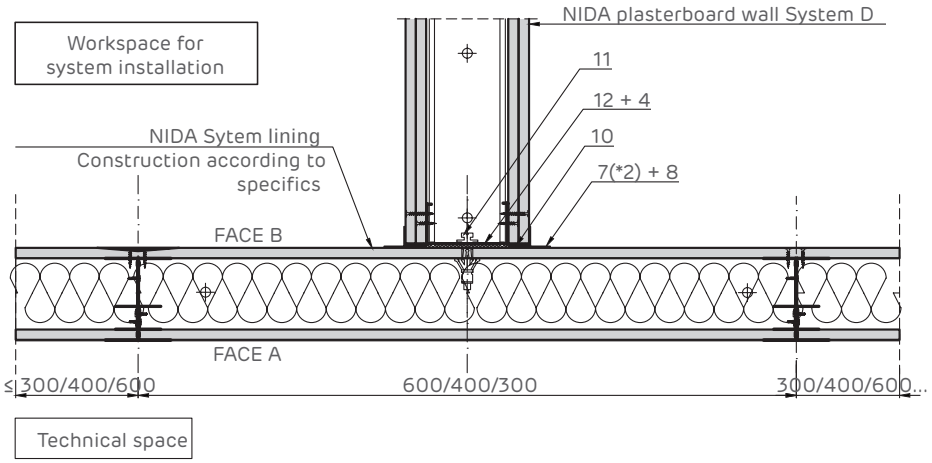
NIDA System SH.UU

Shaft-walls with NIDA System SH.UU single-layer **lining** inwards and outwards on NIDA Metal UW/UD independent support structure

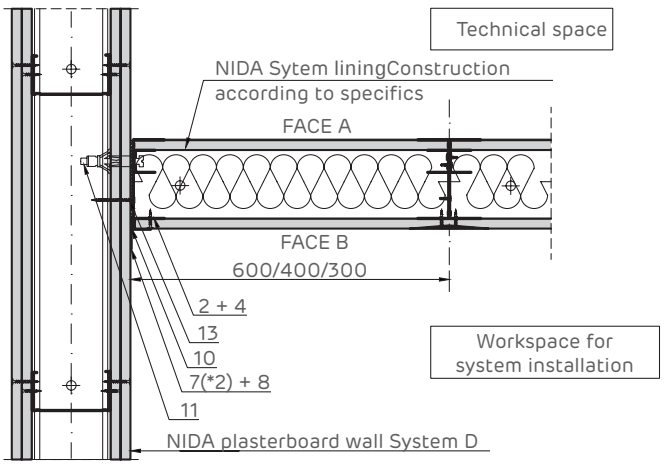
Horizontal section.



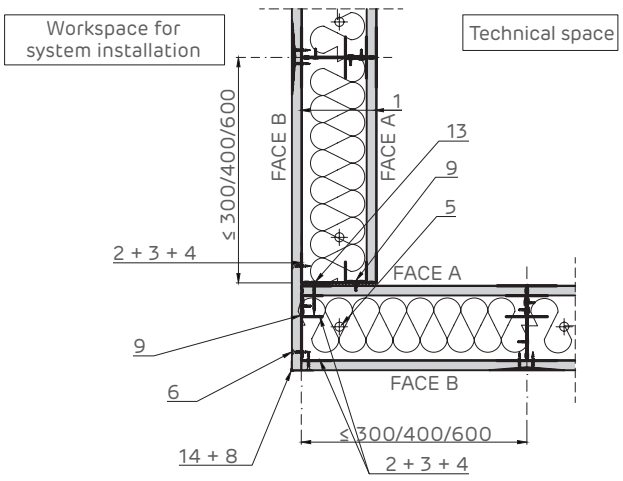
NIDA System T - Acoustic **lining** in wall system
lining with single board layer on NIDA Metal UW/UD structure
Horizontal section.



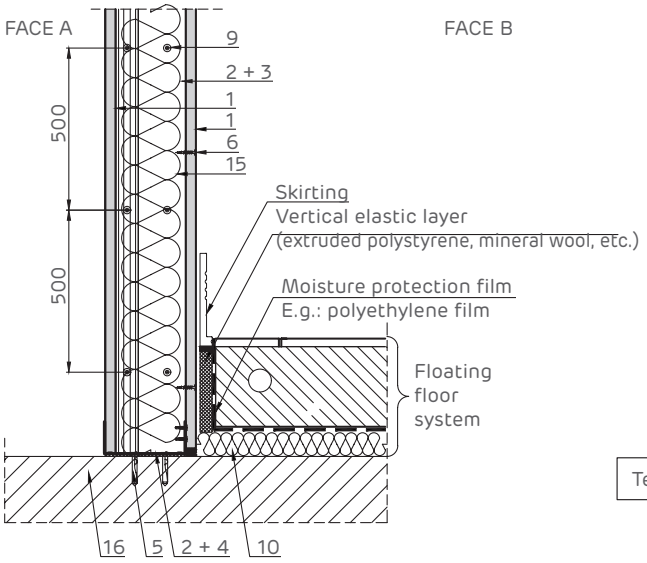
Lining crossing with D wall
more resistant to fire.
Horizontal section.



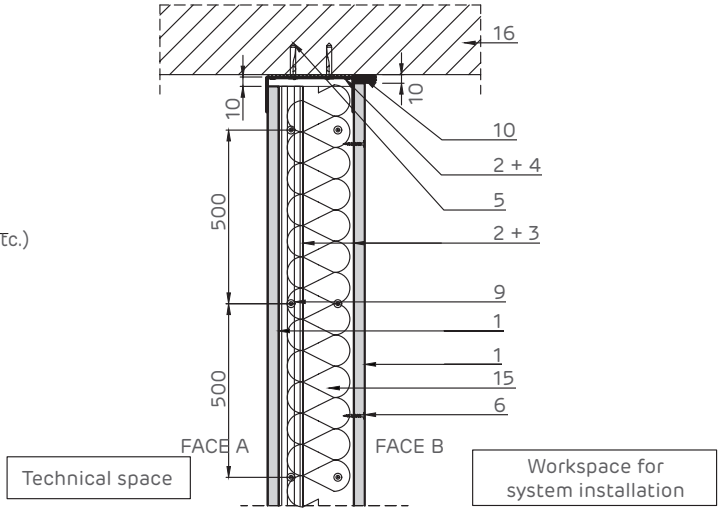
Corner detail
Horizontal section.



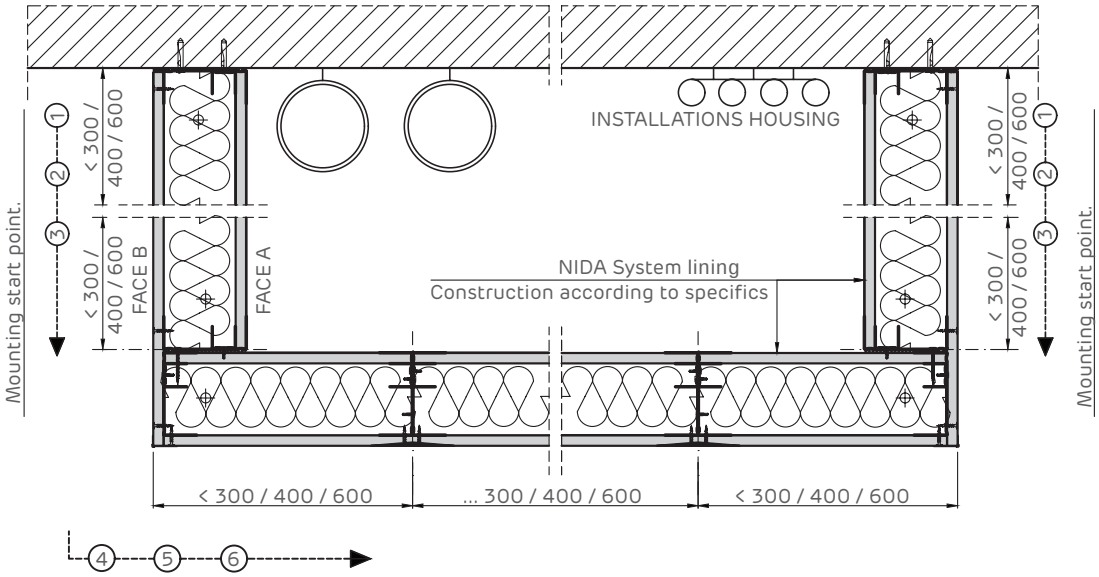
Detail of crossing with floating floor
Vertical section



Detail of upper attachment to reinforced concrete slab
Vertical section



Three-sided enclosing of installations housing.
Horizontal section.

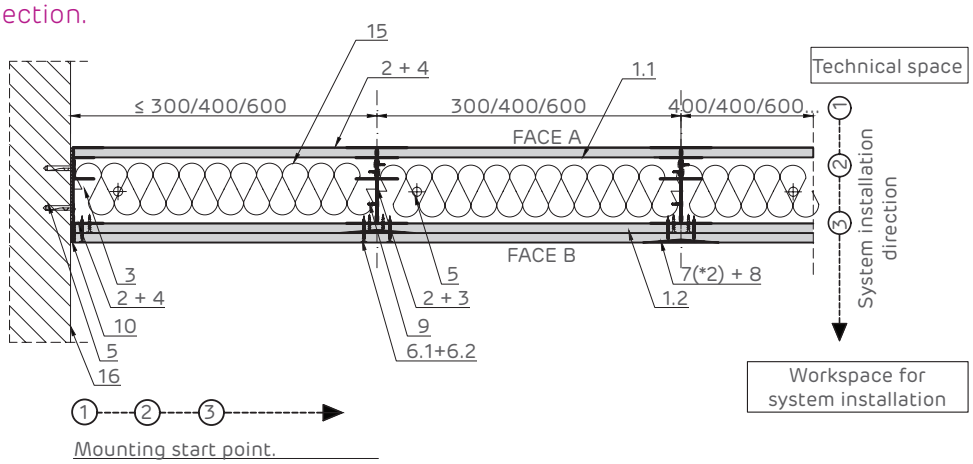


1. 1x Siniat plasterboard
2. NIDA Metal UW profile
3. NIDA Metal UD profile
4. Single-sided adhesive sealing tape
5. Mechanical fixing (*1)
   Layout at maximum 500 mm pitch
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD
   laid out in zigzag at 500 mm pitch
10. NIDA Boardfix
11. MOLLY @ 50 cm metal dowel
12. NIDA Metal CW upright
13. Self-tapping screw 212xL3 + flat washer @ 500 mm
14. Corner protection profile
15. Mineral wool
16. Stiff support (reinforced concrete/brickwork/wood/
    etc.)

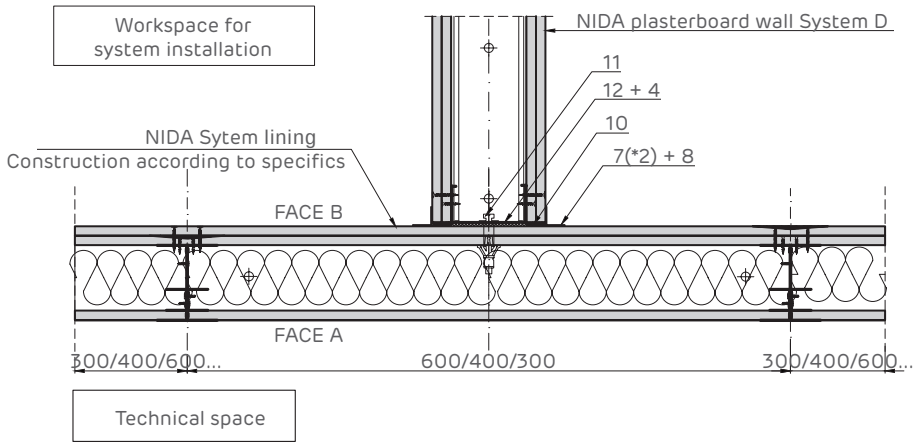
NIDA System SH.UU

Shaft-wall with NIDA System SH.UU single-layer **lining** inwards and double-layer **lining** outwards on NIDA Metal UW/UD independent support structure

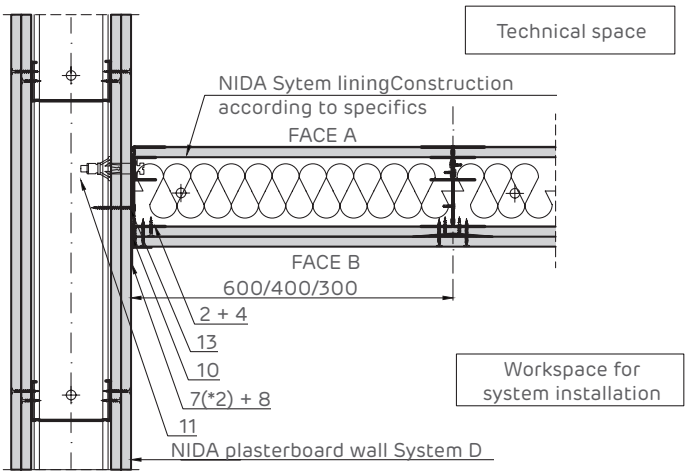
Horizontal section.



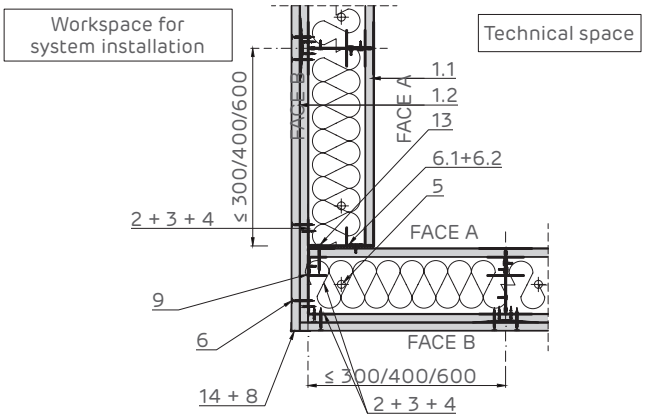
Lining crossing with D wall
less resistant to fire or not resistant at all
Horizontal section.



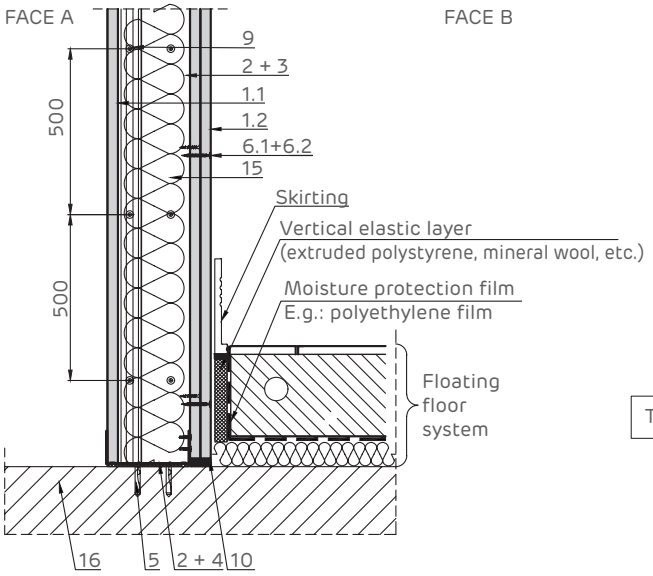
Lining crossing with D wall
more resistant to fire.
Horizontal section.



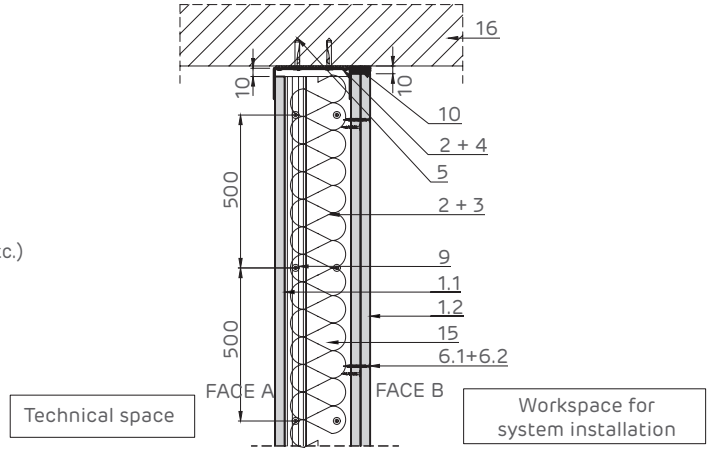
Corner detail
Horizontal section.



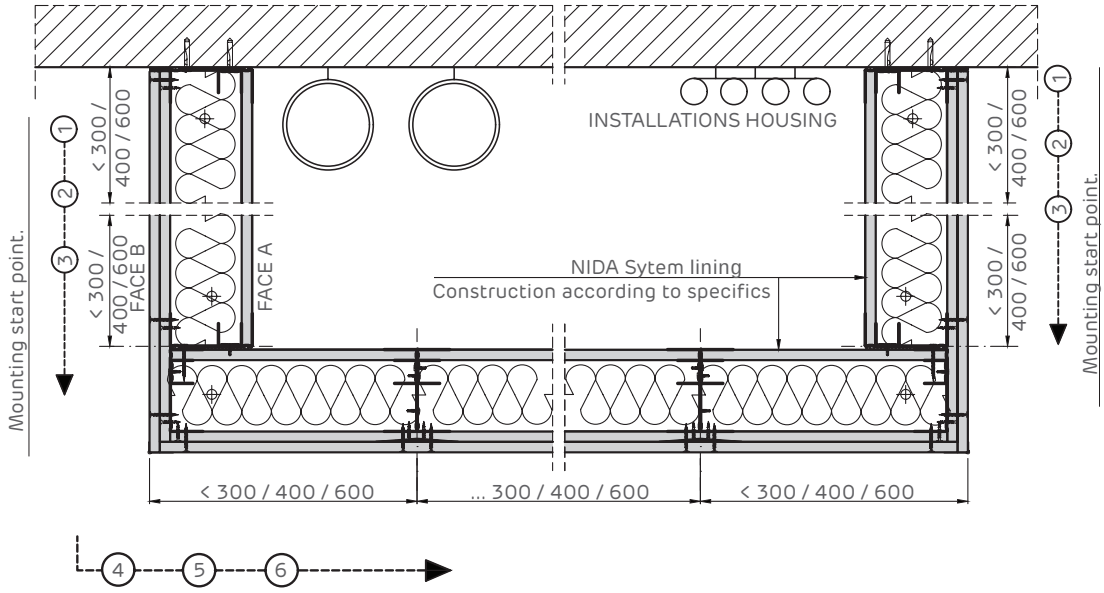
Detail of crossing with floating floor
Vertical section



Detail of attachment at the top
on reinforced concrete slab
Vertical section



Three-sided enclosing of installations housing. Horizontal section.

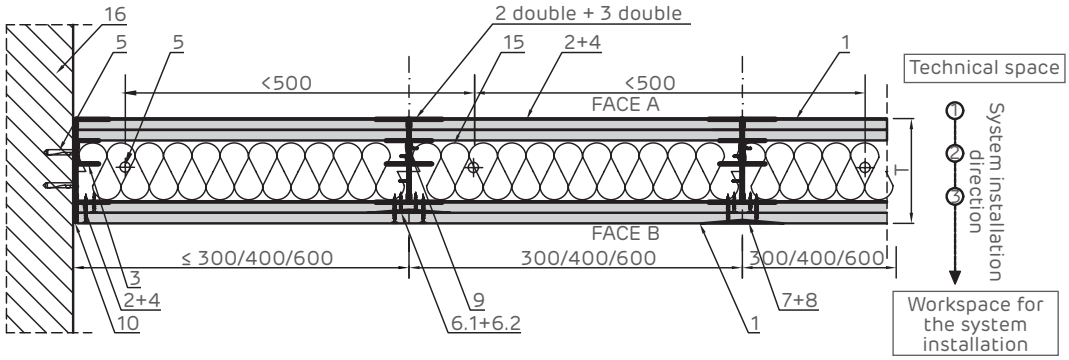


- 1.1 1x Siniat plasterboard
- 1.2 2x Siniat plasterboard
- 2 NIDA Metal UW profile
- 3 NIDA Metal UD profile
- 4 Single-sided adhesive sealing tape
- 5 Mechanical fixing (*1)
  Layout at maximum 500 mm pitch
- 6.1 Self-tapping screw 212xL1 @ 600
- 6.2 Self-tapping screw 212xL2 @ 300
- 7 Jointing tape (*2)
- 8 NIDA Profesional jointing plaster
- 9 Self-drilling screw 4.2x13 FLAT HEAD
  laid out in zigzag at 500 mm pitch
- 10 NIDA Boardfix
- 11 MOLLY @ 50 cm metal dowel
- 12 NIDA Metal CW upright
- 13 Self-tapping screw 212xL3 + flat washer @ 500 mm
- 14 Corner protection profile
- 15 Mineral wool
- 16 Stiff support (reinforced concrete/brickwork/wood/etc.)

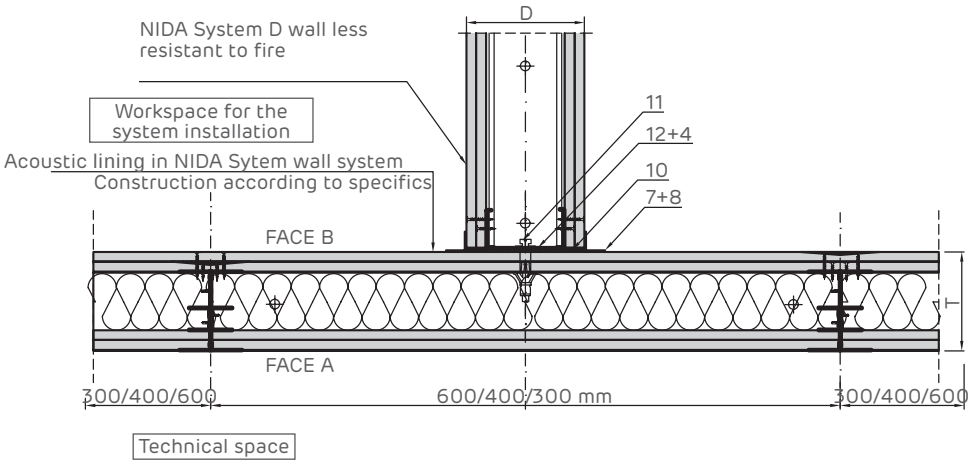
NIDA System SH.UU

Shaft-wall with NIDA System SH.UU double-layer **lining** inwards and outwards on NIDA Metal UW/UD independent support structure

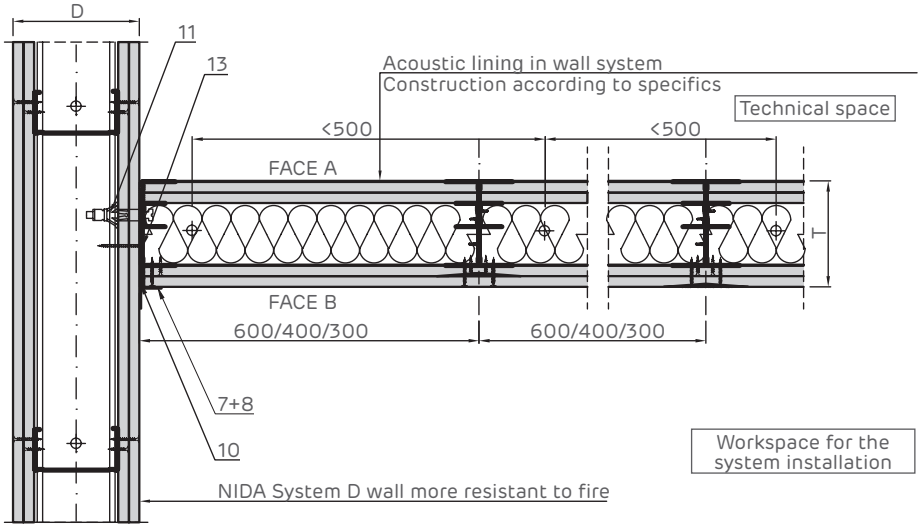
Horizontal section.



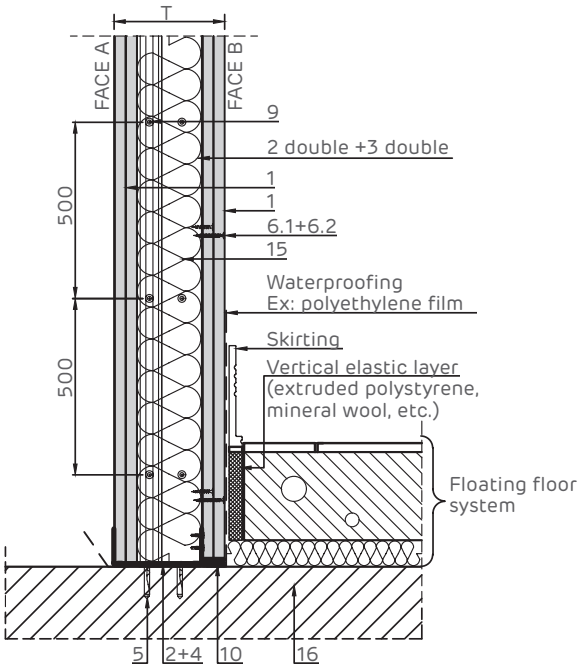
Lining crossing with D wall less resistant to fire.
Horizontal section.



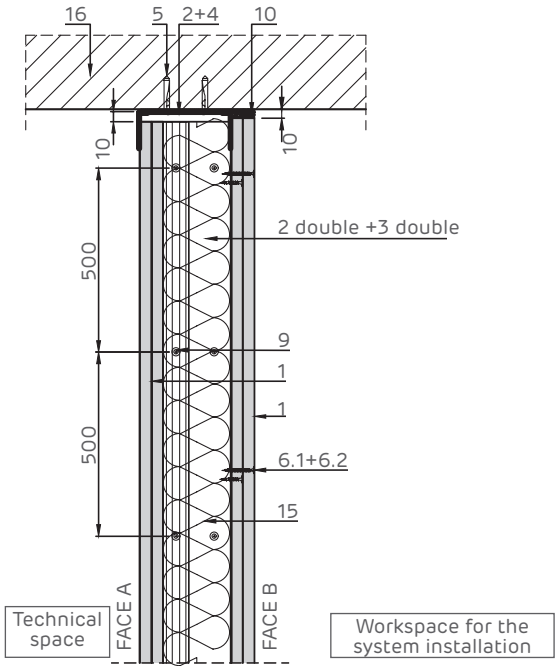
Lining crossing with D wall more resistant to fire.
Horizontal section.



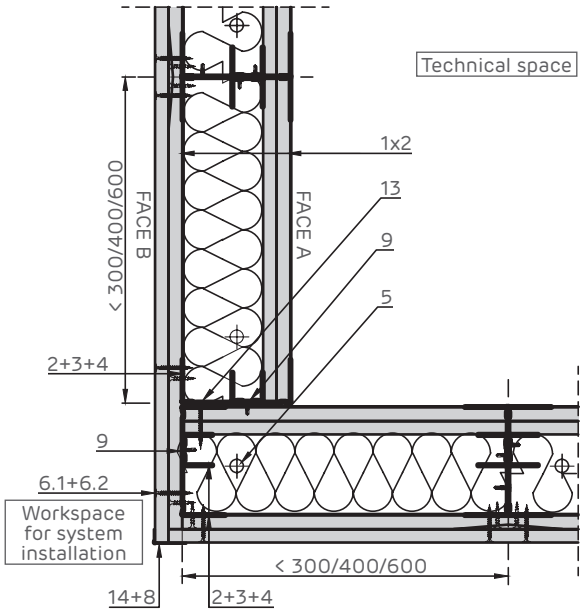
Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.



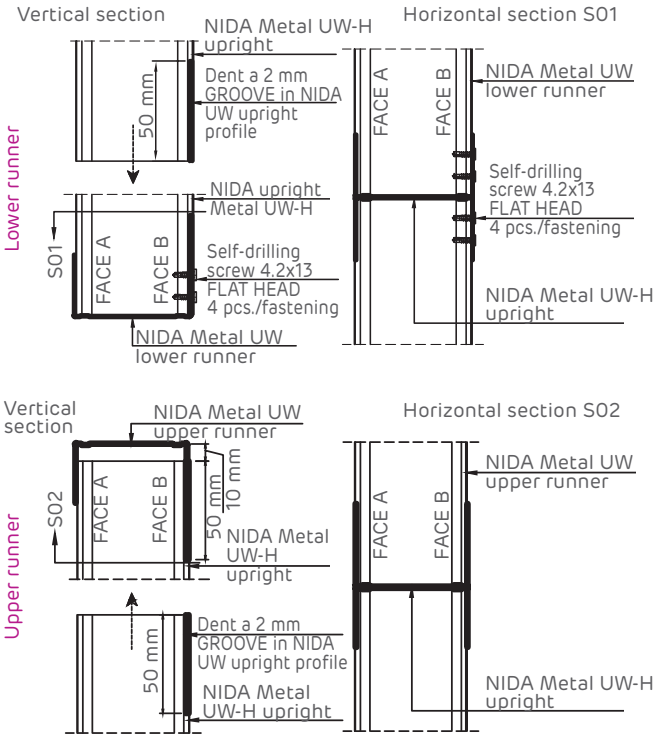
Upper fastening detail on reinforced concrete slab. Vertical section



Corner detail Horizontal section.

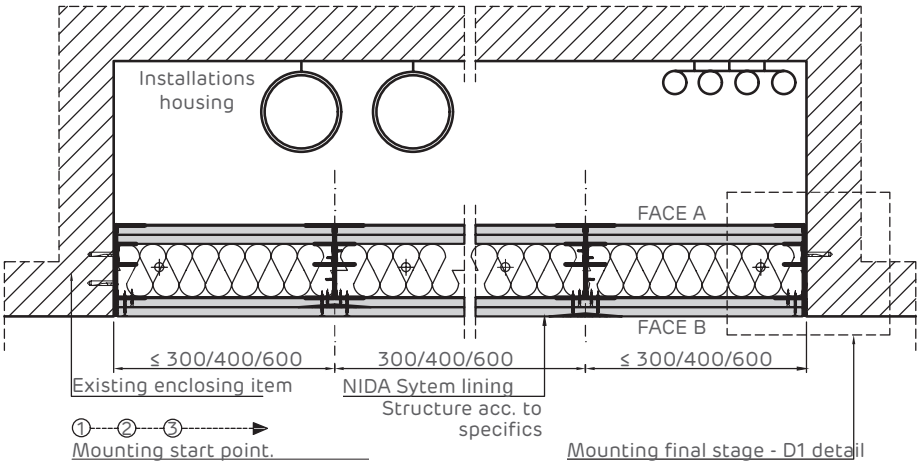


Details of fixing UW-H NIDA Metal uprights in the NIDA Metal UW runner.

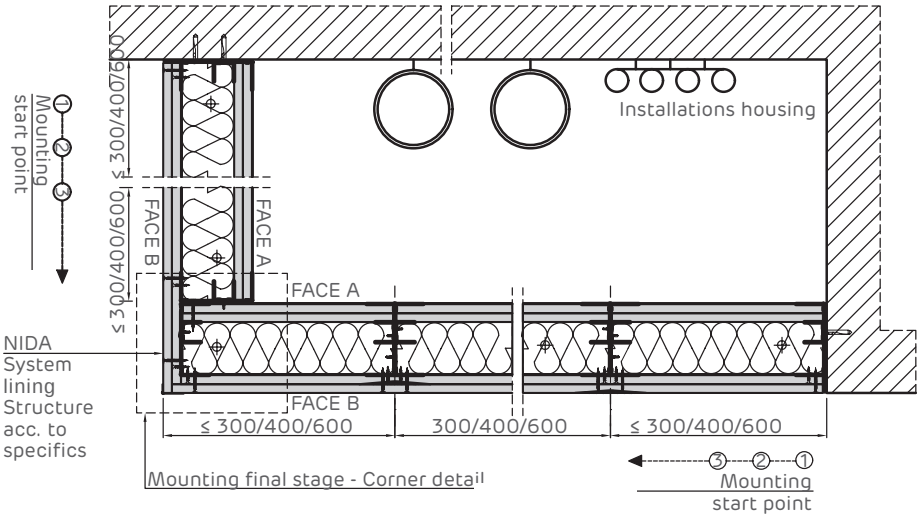


1. 2x Siniat plasterboard
2. NIDA Metal UW profile
3. NIDA Metal UD profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
10. NIDA Boardfix
11. MOLLY @ 500 mm metal dowel
12. NIDA Metal CW upright
13. Self-tapping screw 212xL3 + flat washer @500mm
14. Corner protection profile
15. Mineral wool
16. Stiff support (reinforced concrete/brickwork/wood/ etc.)

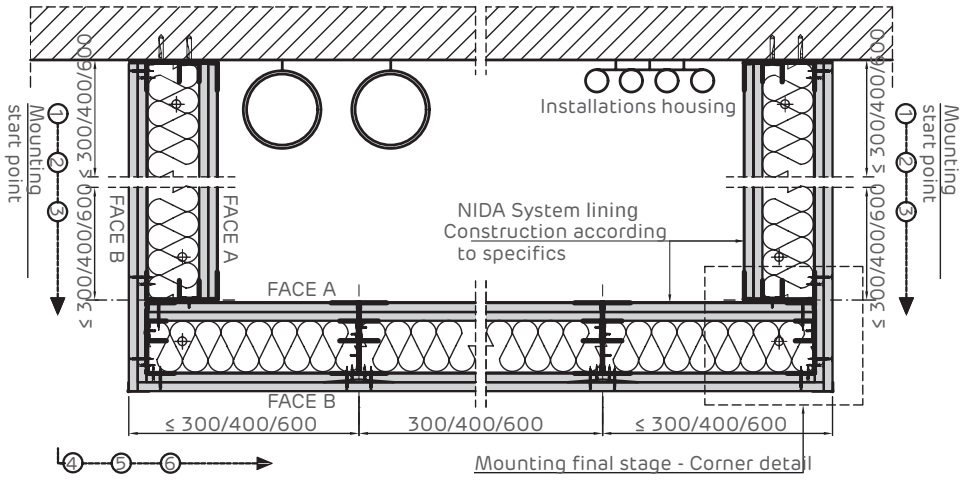
One-sided enclosing of installations housing Horizontal section.



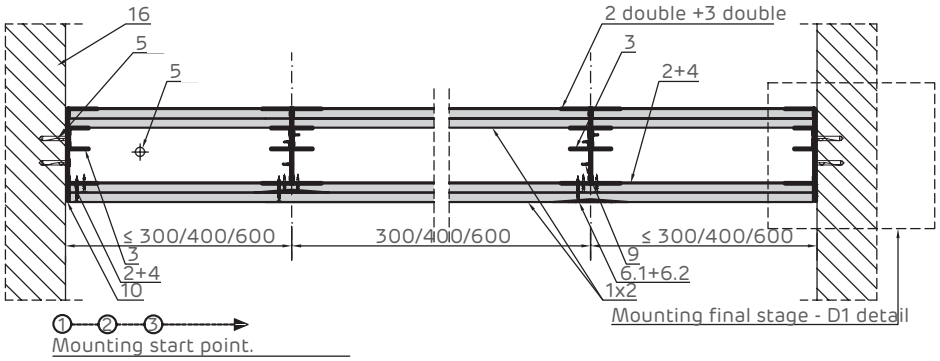
Two-sided enclosing of installations housing Horizontal section.



Two-sided enclosing of installations housing Horizontal section.

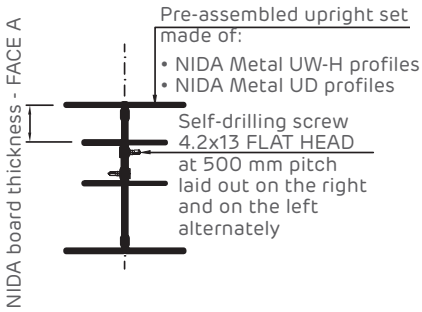


System installation stages Horizontal section.

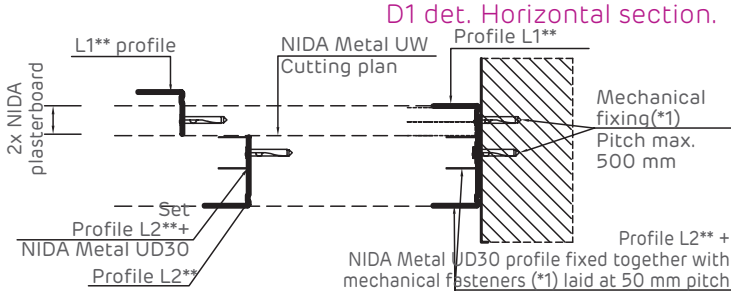


The system should be mounted from one end in the case of linear lining, fixed between two enclosing elements (e.g. brick wall, reinforced concrete). In the case of lining of technical spaces which are L-shaped or U-shaped, the system should be mounted in such a way that it closes at all times in the corner area

Implementation of the UW-UD upright set.



D1 det. Horizontal section.



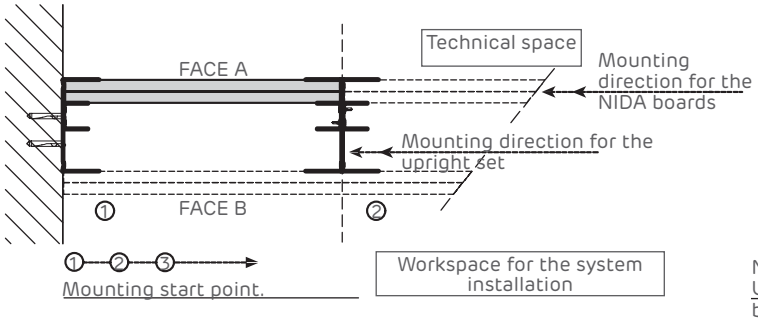
NOTE **:

NIDA Metal UW runner profile will be cut in two L pieces as follows:

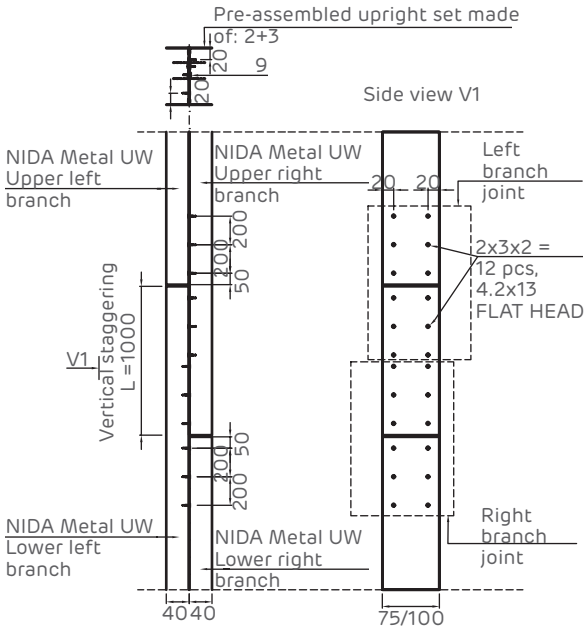
- L1 profile and L2 profile

Profile L1 shall be cut according to the thickness and number of layers of NIDA boards so that they will cover the width of the profile as shown in the plan. After cutting the L1 profile, another piece will result, namely L2; this will be fixed together with the NIDA Metal UD profile to the existing support using mechanical fasteners (*1).

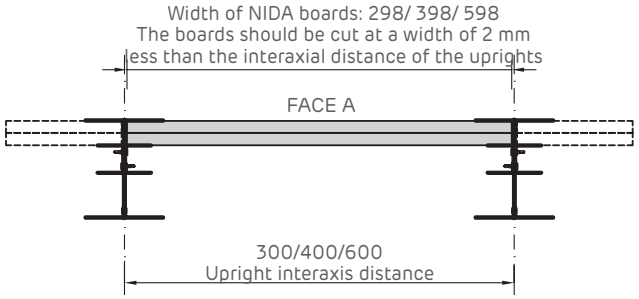
Mounting instructions.



Detail of upright set jointing NIDA Metal UW 75 / 100 - H.



Board cutting on FACE A

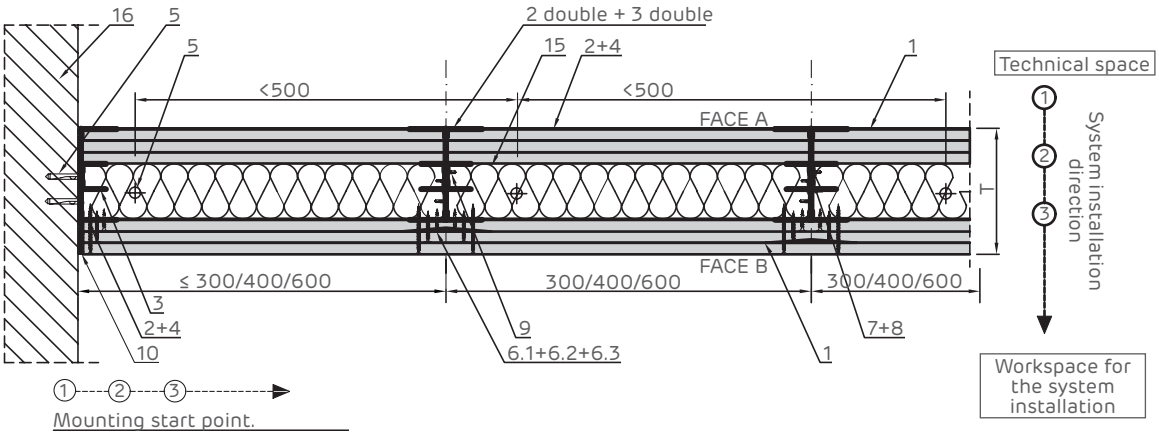


1. 2x Siniat plasterboard
2. NIDA Metal UW profile
3. NIDA Metal UD profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
10. NIDA Boardfix
11. MOLLY @ 500 mm metal dowel
12. NIDA Metal CW upright
13. Self-tapping screw 212xL3 + flat washer @ 500 mm
14. Corner protection profile
15. Mineral wool
16. Stiff support (reinforced concrete/brickwork/wood/ etc)

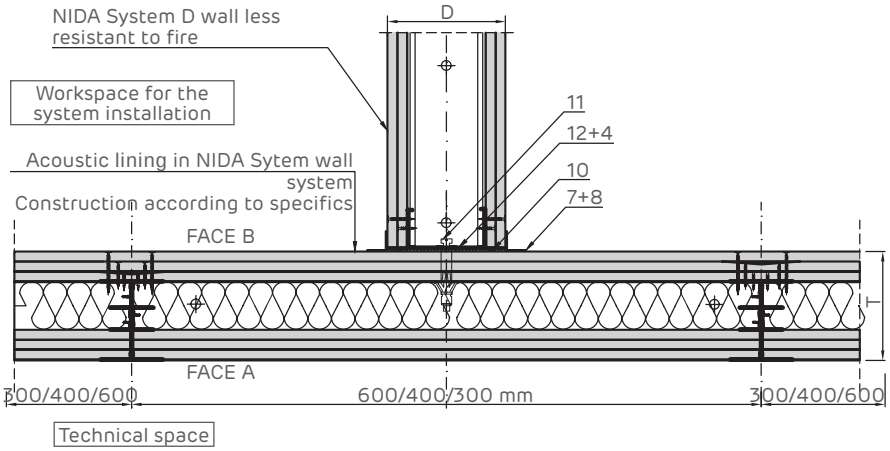
NIDA System SH.UU

Shaft-wall with NIDA System SH.UU triple-layer **lining** inwards and outwards on NIDA Metal UW/UD independent support structure

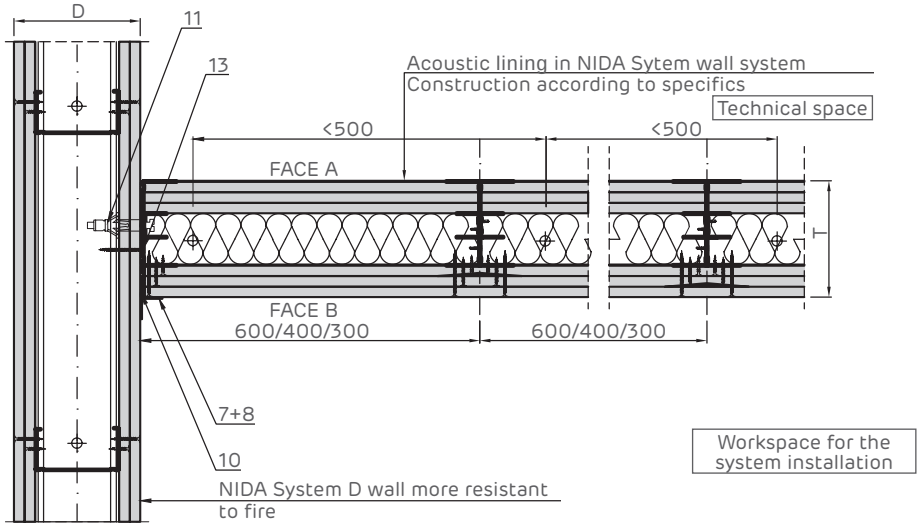
Horizontal section.



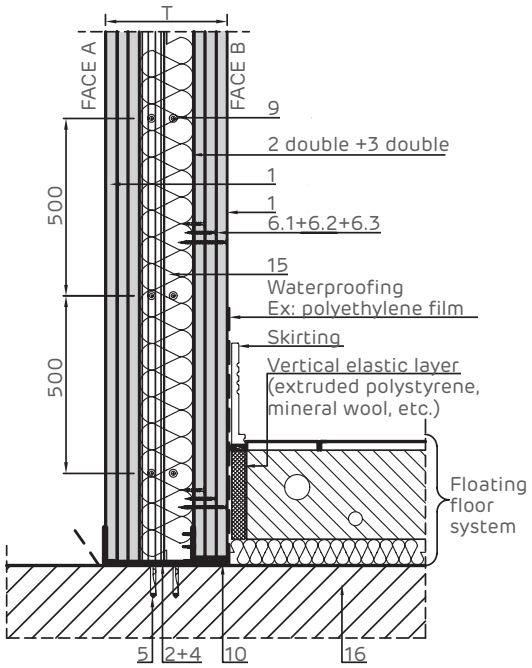
Lining crossing with D wall less resistant to fire.
Horizontal section.



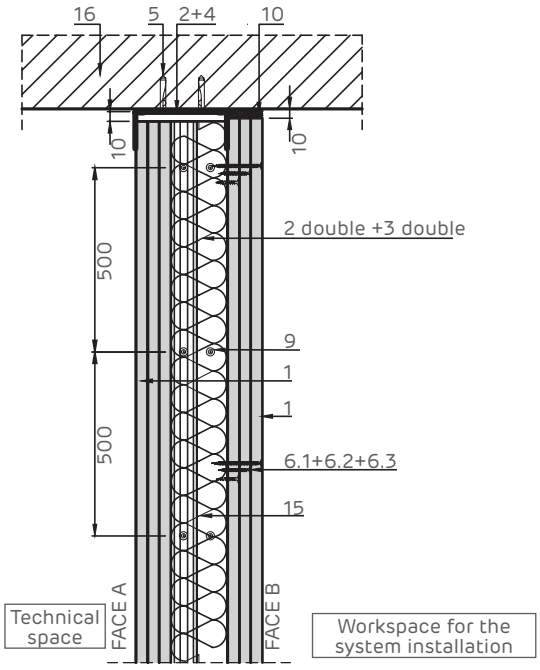
Lining crossing with D wall more resistant to fire.
Horizontal section.



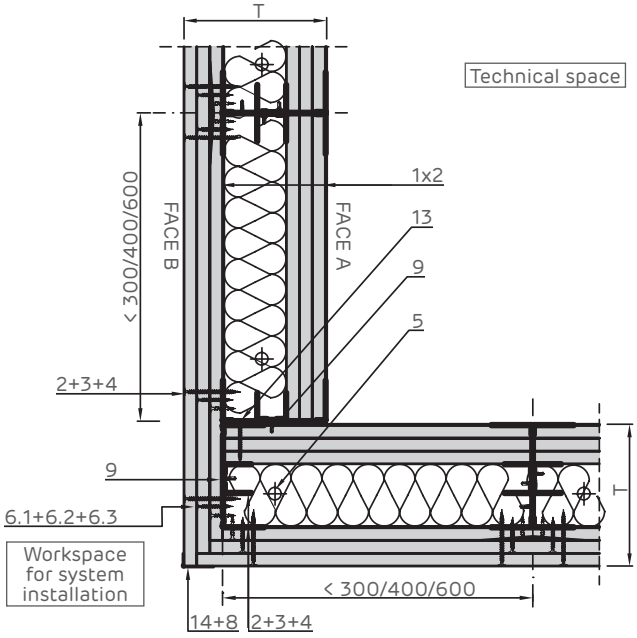
Detailed crossing with floating floor system. Vertical section at the bottom of the lining. For superior acoustic performance.



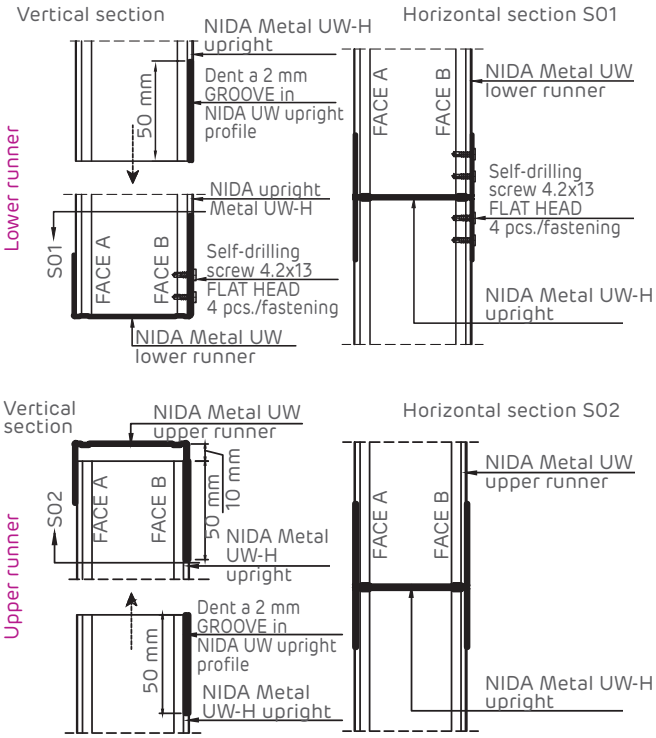
Upper fastening detail on reinforced concrete slab. Vertical section



Corner detail Horizontal section.

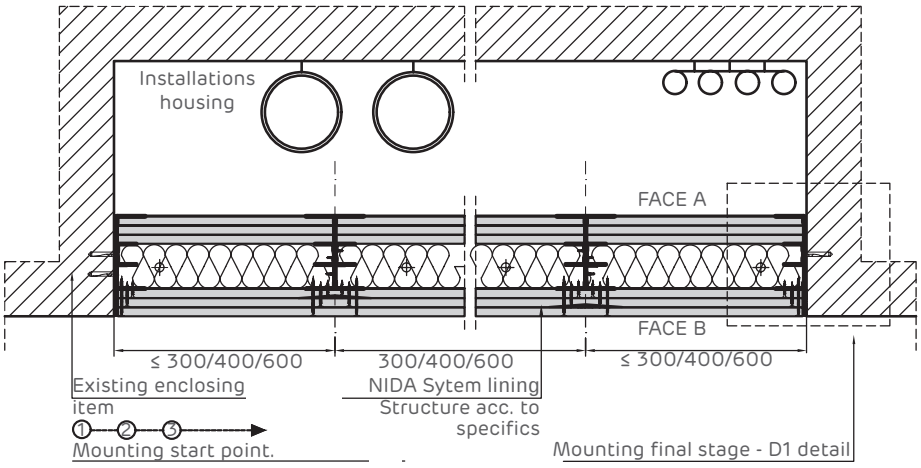


Details of fixing UW-H NIDA Metal uprights in the NIDA Metal UW runner.

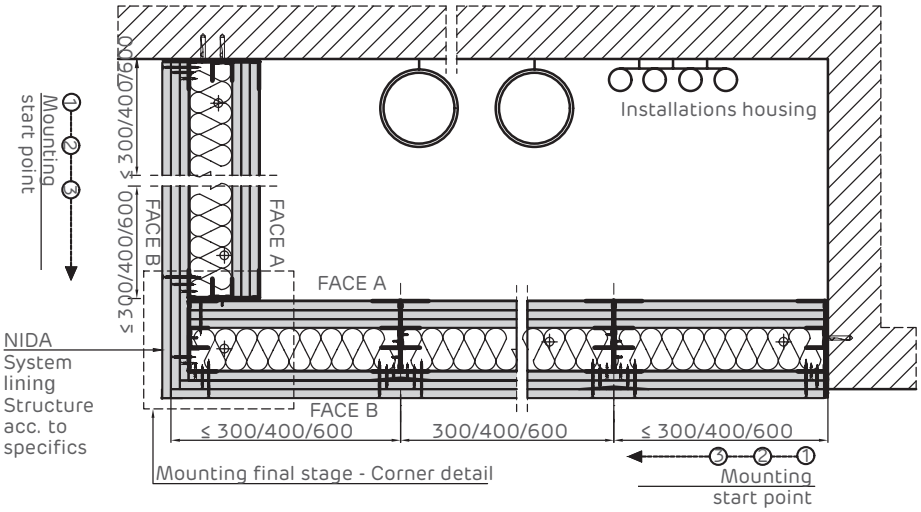


1. 3x Siniat plasterboard
2. NIDA Metal UW profile
3. NIDA Metal UD profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
10. NIDA Boardfix
11. MOLLY @ 500 mm metal dowel
12. NIDA Metal CW upright
13. Self-tapping screw 212xL4 + flat washer @500mm
14. Corner protection profile
15. Mineral wool
16. Stiff support (reinforced concrete/brickwork/wood/ etc.)

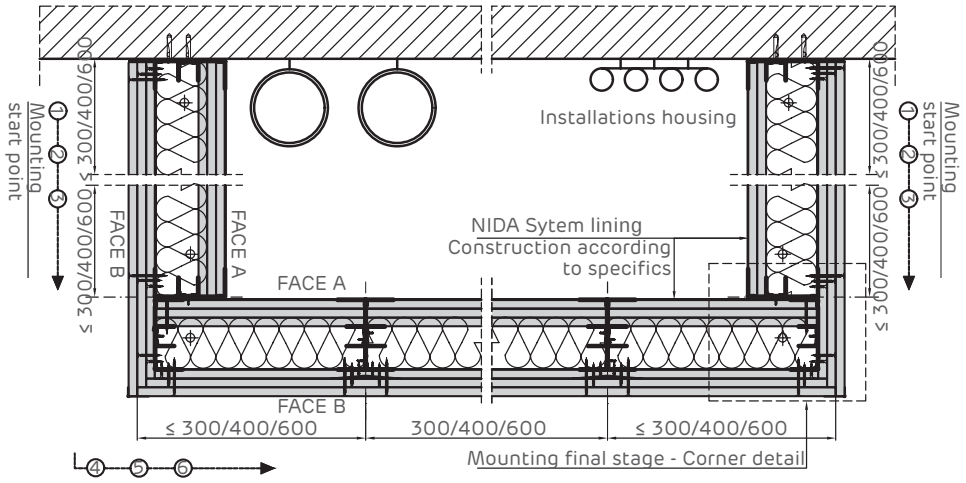
One-sided enclosing of installations housing Horizontal section.



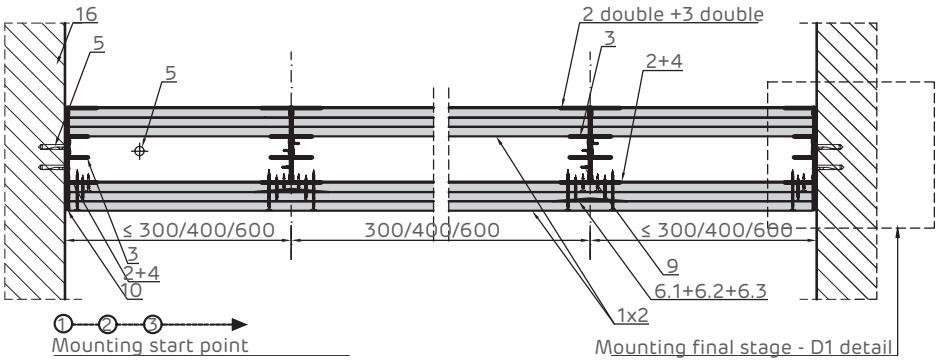
Two-sided enclosing of installations housing Horizontal section.



Two-sided enclosing of installations housing Horizontal section.

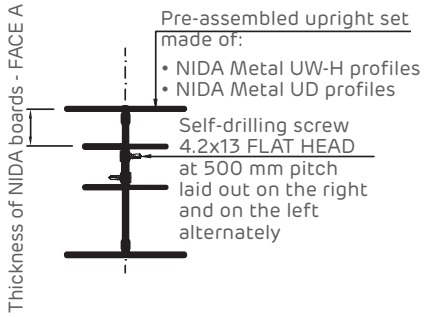


System installation stages Horizontal section.

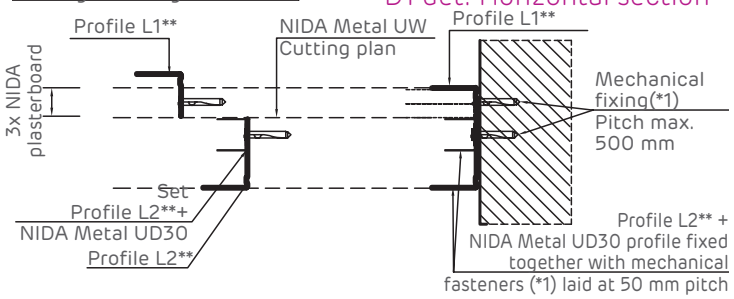


The system should be mounted from one end in the case of linear lining, fixed between two enclosing elements (e.g. brick wall, reinforced concrete). In the case of lining of technical spaces which are L-shaped or U-shaped, the system should be mounted in such a way that it closes at all times in the corner area

Implementation of the UW-UD upright set



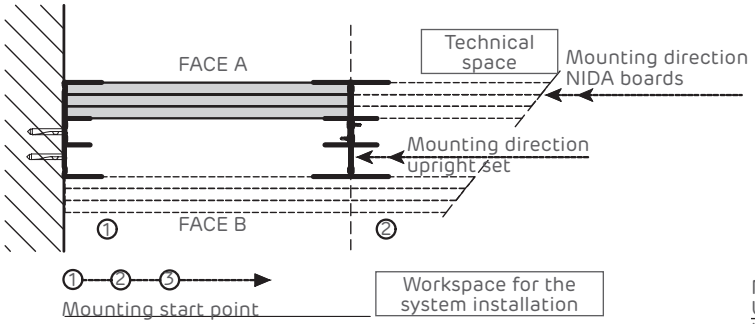
D1 det. Horizontal section



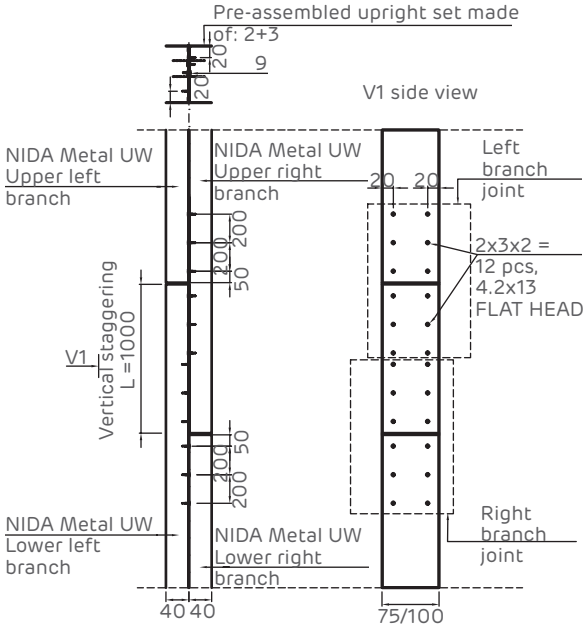
NOTE **:
NIDA Metal UW runner profile will be cut in two L pieces as follows:
- Profile L1 and Profile L2

Profile L1 will be cut according to the thickness and number of layers of NIDA boards so that they will cover the width of the profile as shown in the drawing. After cutting the L1 profile, another piece will result, namely the L2 profile; this will be fixed together with the NIDA Metal UD profile to the existing support using mechanical fasteners (*1).

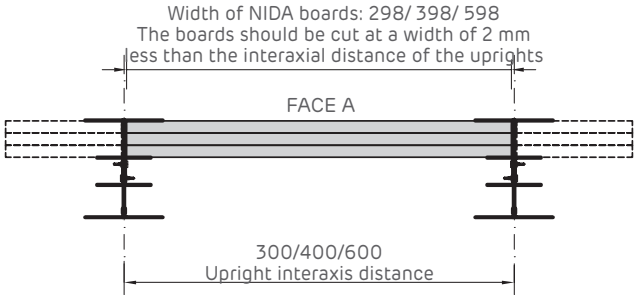
Mounting instructions



Detail of upright set jointing NIDA Metal UW 75 / 100 - H



Board cutting on FACE A

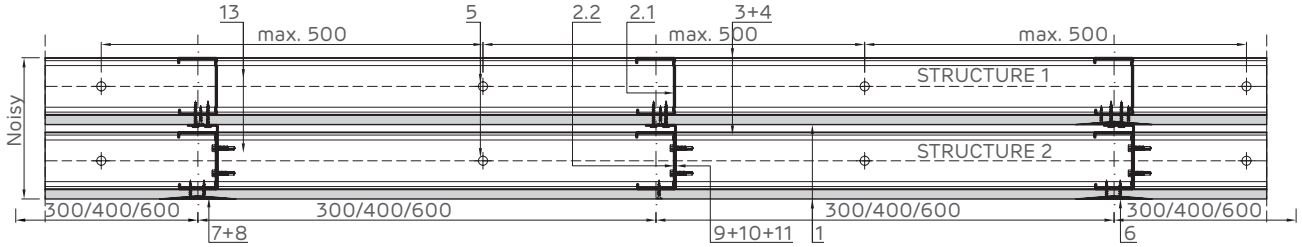


1. 3x Siniat plasterboard
2. NIDA Metal UW profile
3. NIDA Metal UD profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. 6.1 Self-tapping screw 212xL1 @ 600
   6.2 Self-tapping screw 212xL2 @ 600
   6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
10. NIDA Boardfix
11. MOLLY @ 500 mm metal dowel
12. NIDA Metal CW upright
13. Self-tapping screw 212xL4 + flat washer @500mm
14. Corner protection profile
15. Mineral wool
16. Stiff support (reinforced concrete/brickwork/wood/ etc.)

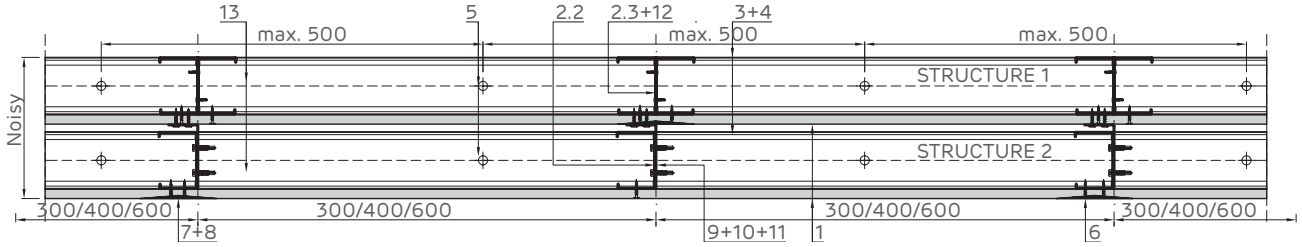
NIDA System N.CW.I

Shaft-wall with NIDA System N.CW.I single-layer **lining** inwards and outwards on NIDA Metal CW/UW independent double structure

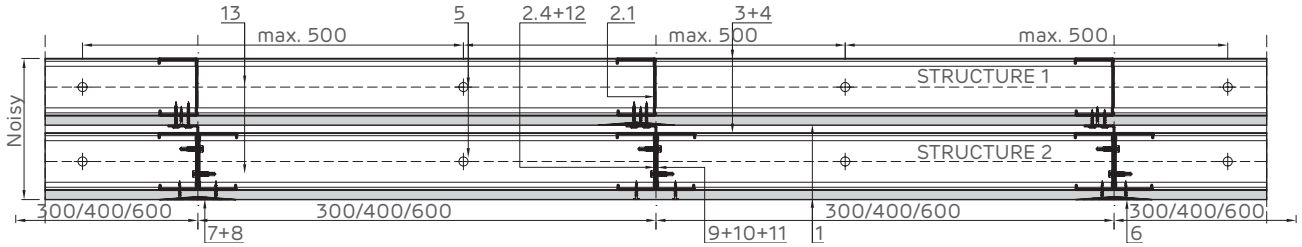
Horizontal section: Single upright for Structure 1 and Structure 2



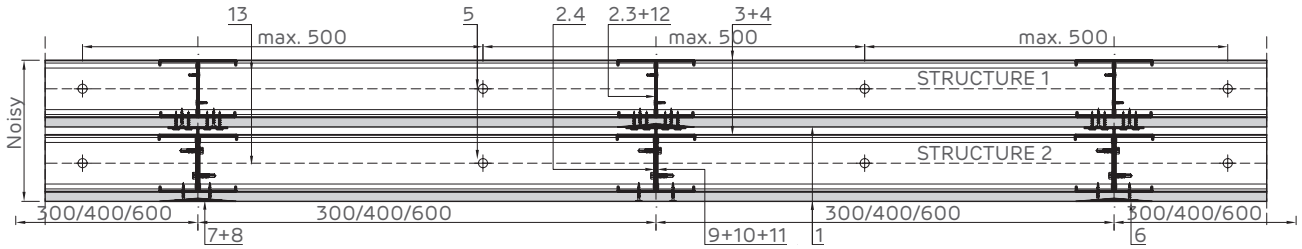
Horizontal section: Double upright for Structure 1 and single upright for Structure 2



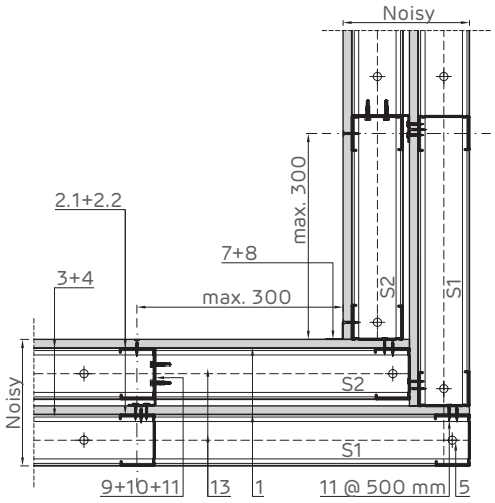
Horizontal section: Single upright for Structure 1 and double upright for Structure 2



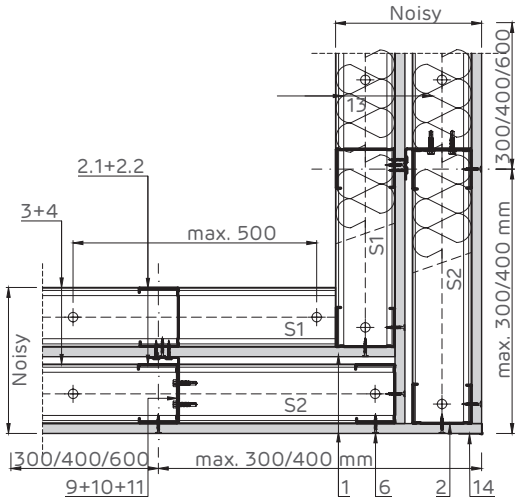
Horizontal section: Double upright for Structure 1 and Structure 2



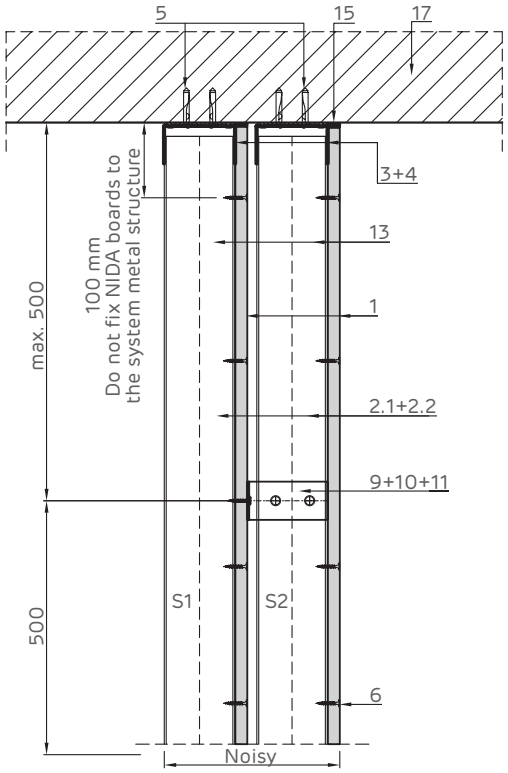
90° corner joint..
Horizontal section.



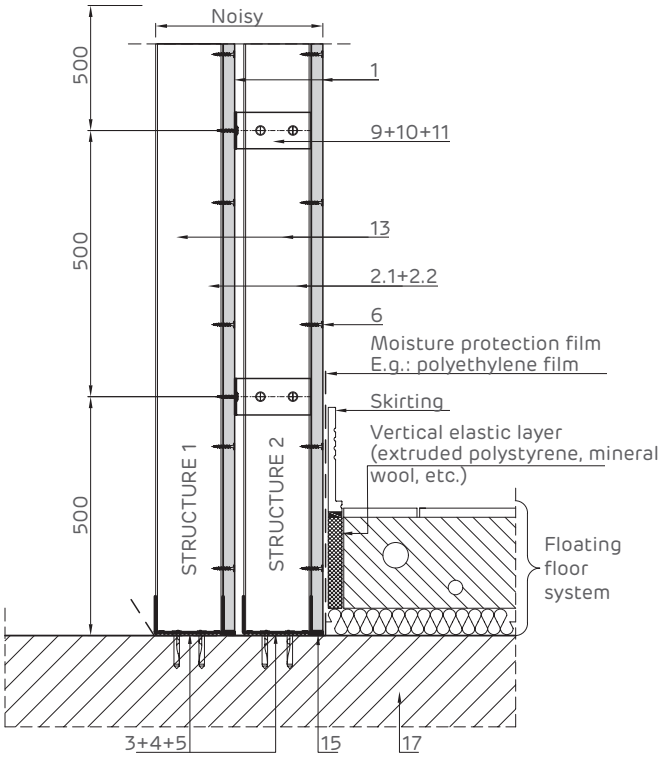
270° corner joint.. H. inst < 6 m.
Horizontal section.



Detailed attachment at the top on reinforced concrete members.
Vertical section

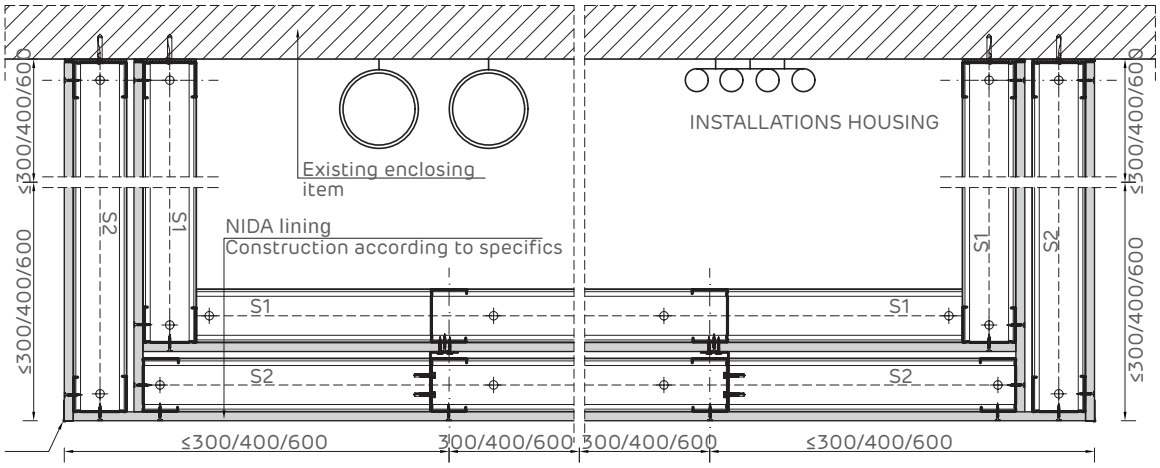


Detailed crossing with floating floor system.
Vertical section at the bottom of the lining.
For superior acoustic performance.

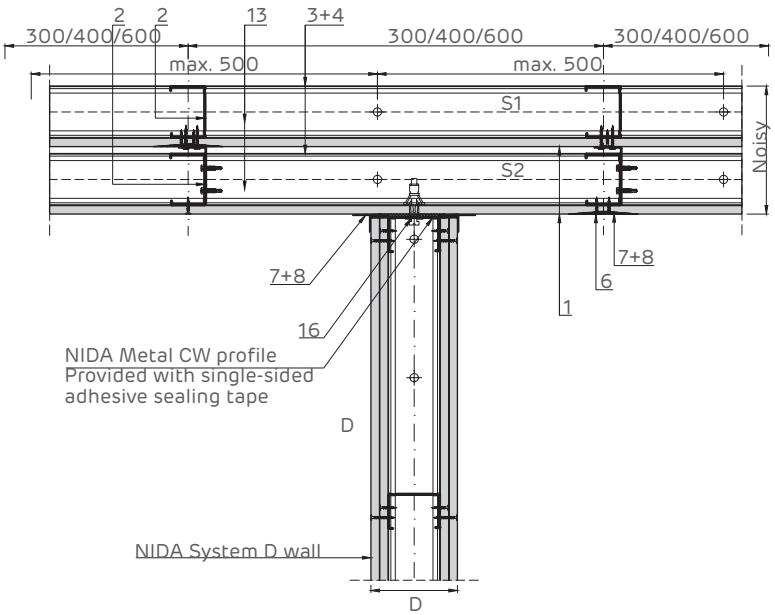


1. 2x 1 Siniat plasterboard
2.1. NIDA Metal CW @ Structure 1 single upright
2.2. NIDA Metal CW @ Structure 2 single upright
2.3. NIDA Metal CW @ Structure 1 double upright
2.4. NIDA Metal CW @ Structure 2 double upright
3. NIDA Metal UW runner profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6. Self-tapping screw 212xL1 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
10. Self-drilling 5.5x25 2 pcs./fastening
11. Self-tapping screw 212xL2 + flat washer @500mm
12. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
13. Mineral wool
14. NIDA Profesional corner protection profile
15. NIDA Boardfix adhesive
16. MOLLY @ 500 mm metal dowel
17. Rigid (concrete) support

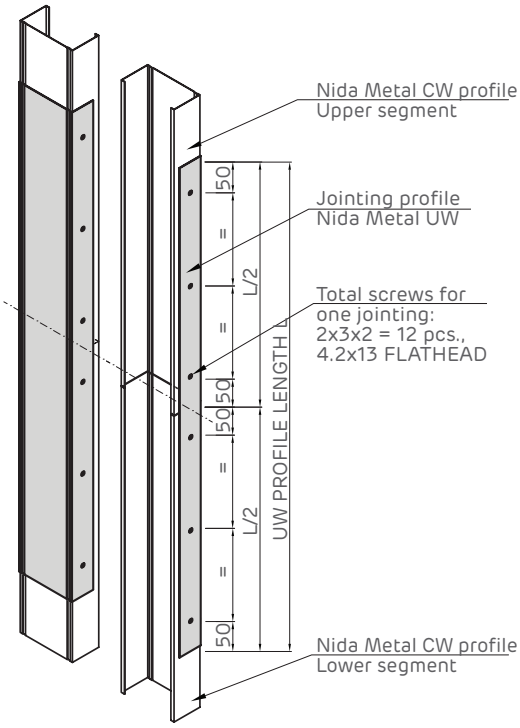
Three-sided enclosing of installations housing Horizontal section.



Horizontal section: Crossing with NIDA System D distribution wall.

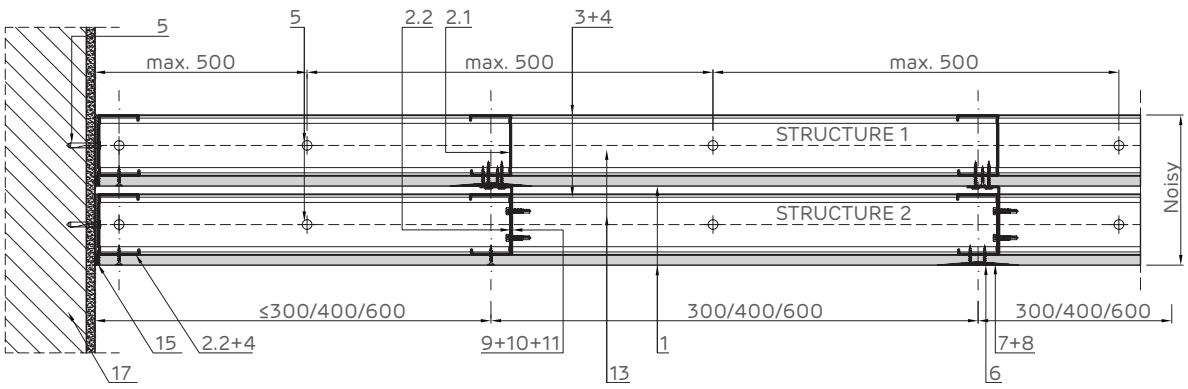


Jointing detail of NIDA Metal CW single profiles.

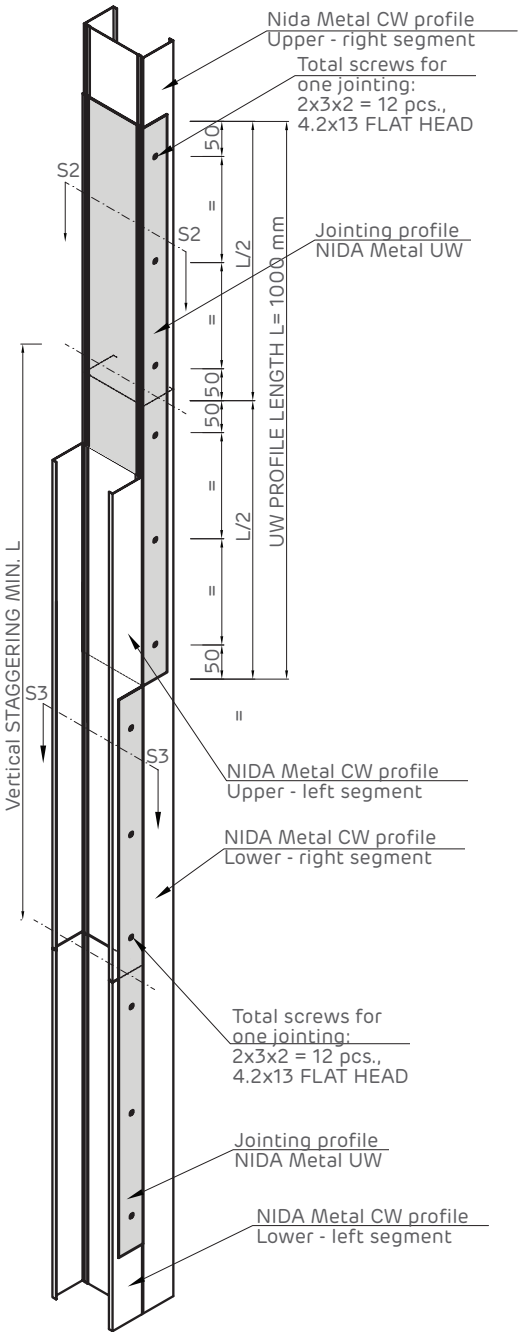


N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

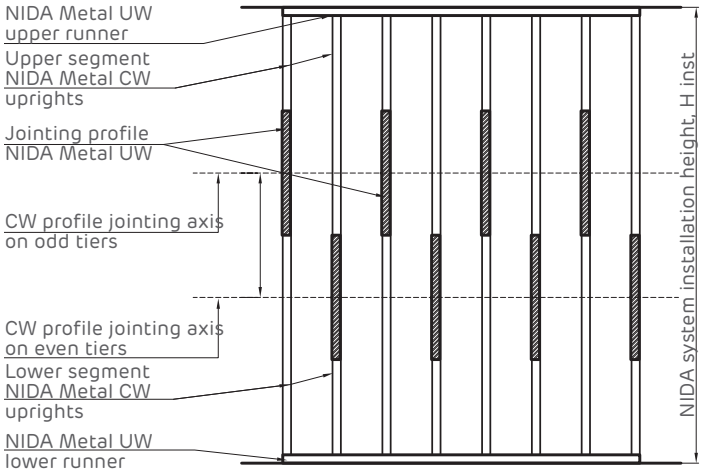
Horizontal section: Rigid jointing with sturdy item



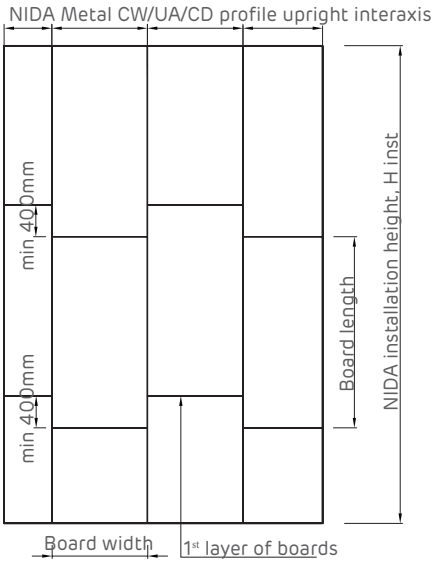
Jointing detail of NIDA Metal CW double profiles.



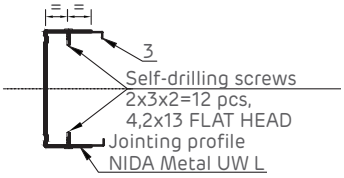
NIDA Metal CW profile joint staggering System elevation.



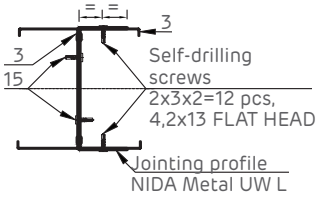
Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap



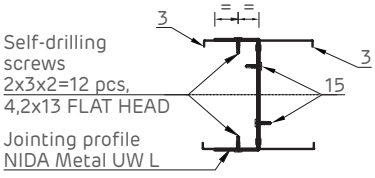
Section S1



Section S2



Section S3



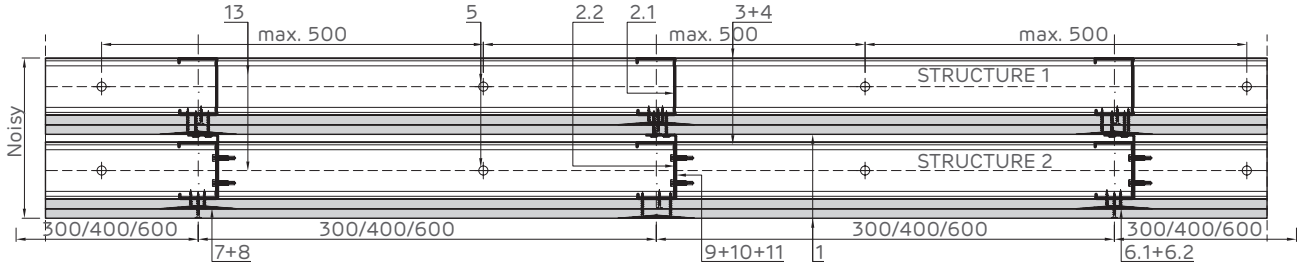
N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

1. 2x 1 Siniat plasterboard
2. 2.1 NIDA Metal CW @ Structure 1 single upright
3. 2.2 NIDA Metal CW @ Structure 2 single upright
4. 2.3 NIDA Metal CW @ Structure 1 double upright
5. 2.4 NIDA Metal CW @ Structure 2 double upright
6. 3 NIDA Metal UW runner profile
7. 4 Single-sided sealing tape
8. 5 Mechanical fixing - Max. pitch 500 mm (*1)
9. 6 Self-tapping screw 212xL1 @ 300
10. 7 Jointing tape (*2)
11. 8 NIDA Profesional jointing plaster
12. 9 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
13. 10 Self-drilling 5.5x25 2 pcs./fastening
14. 11 Self-tapping screw 212xL2 + flat washer @500mm
15. 12 Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
16. 13 Mineral wool
17. 14 NIDA Profesional corner protection profile
18. 15 NIDA Boardfix adhesive
19. 16 MOLLY @ 500 mm metal dowel
20. 17 Rigid (concrete) support

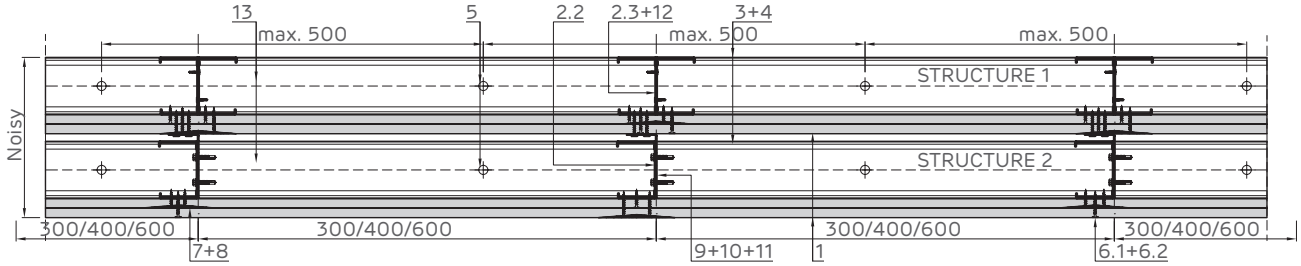
NIDA System N.CW.I

Shaft-wall with NIDA System N.CW.I double-layer **lining** inwards and outwards on NIDA Metal CW/UW independent double structure

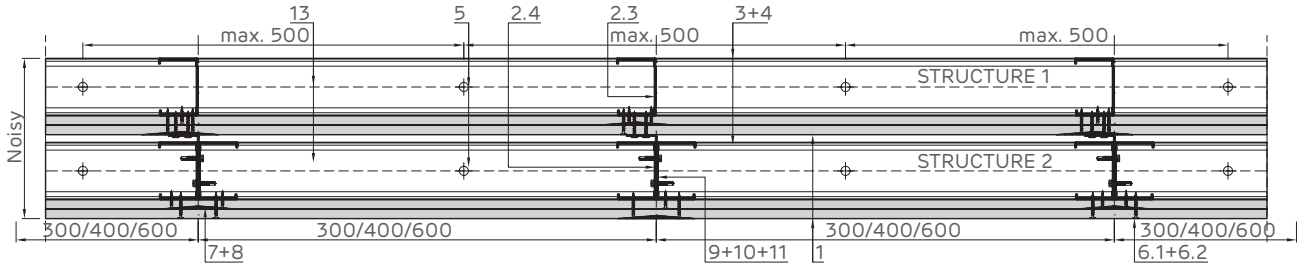
Horizontal section: Single upright for Structure 1 and Structure 2



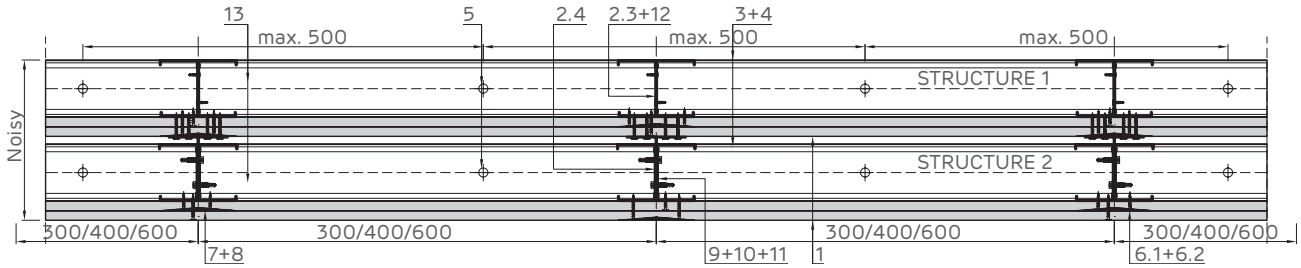
Horizontal section: Double upright for Structure 1 and single upright for Structure 2



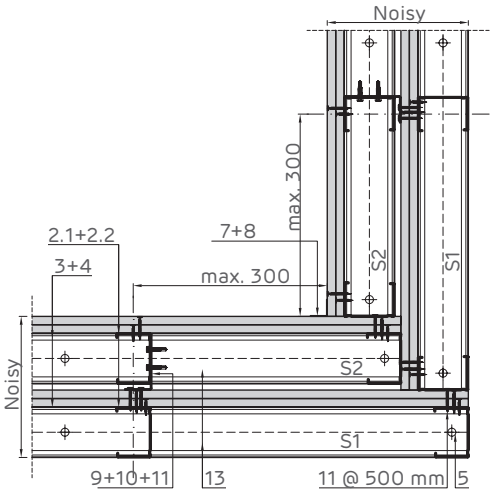
Horizontal section: Single upright for Structure 1 and double upright for Structure 2



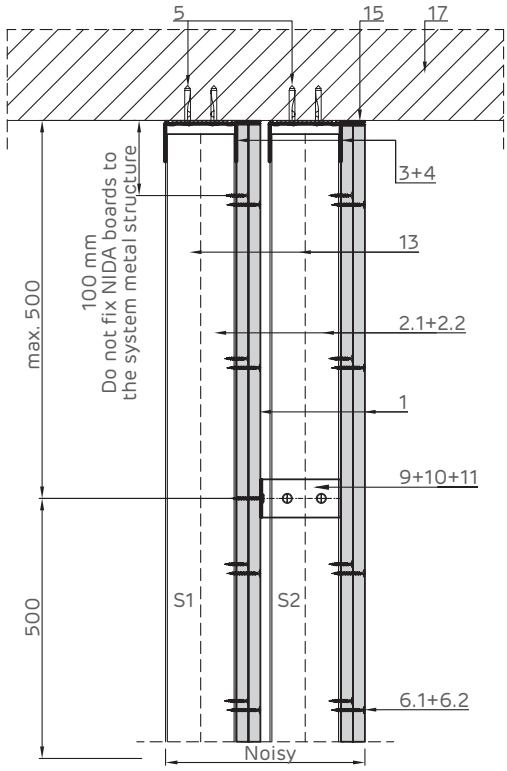
Horizontal section: Double upright for Structure 1 and Structure 2



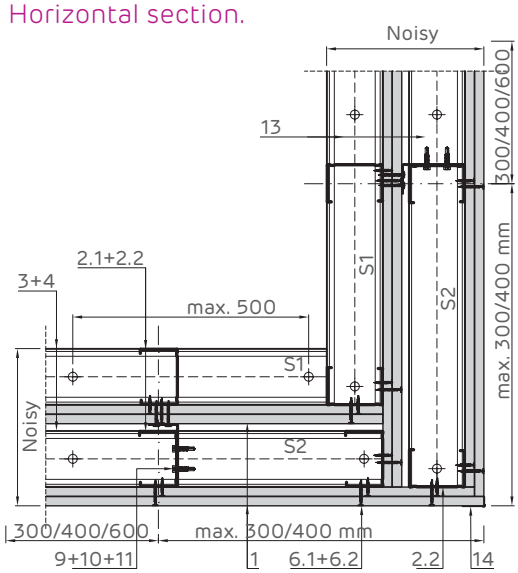
90° corner joint..
Horizontal section.



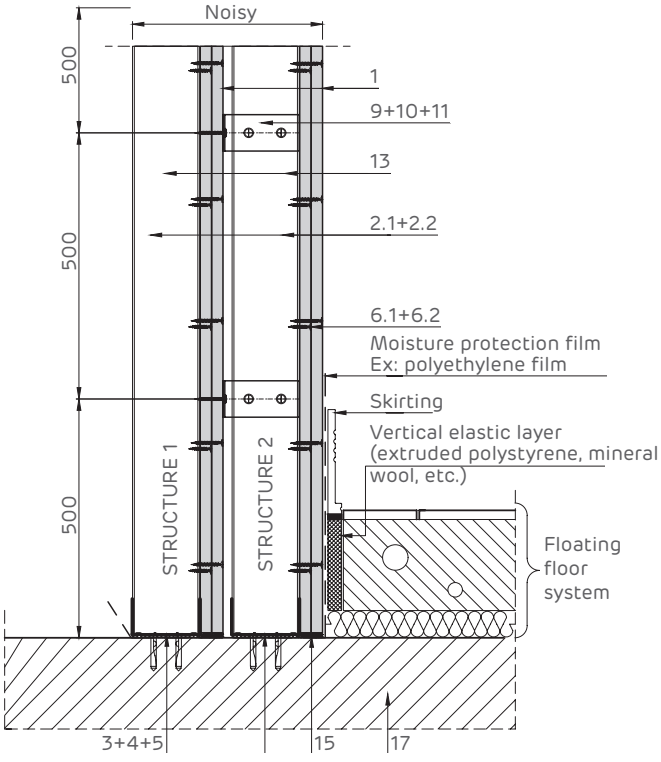
Detailed attachment at the top on reinforced concrete members.
Vertical section



270° corner joint.. H. inst < 6 m.
Horizontal section.

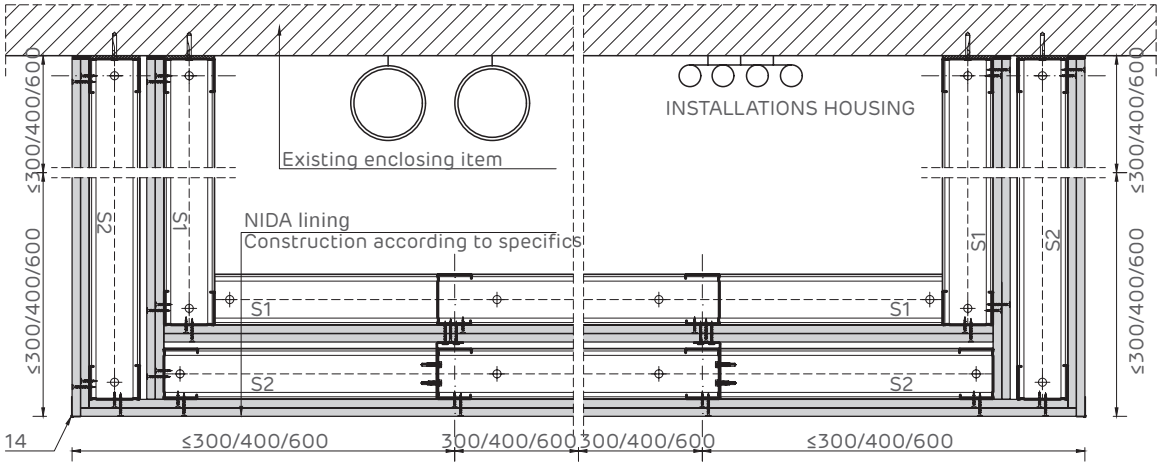


Detailed crossing with floating floor system.
Vertical section at bottom of lining for superior acoustic performance.

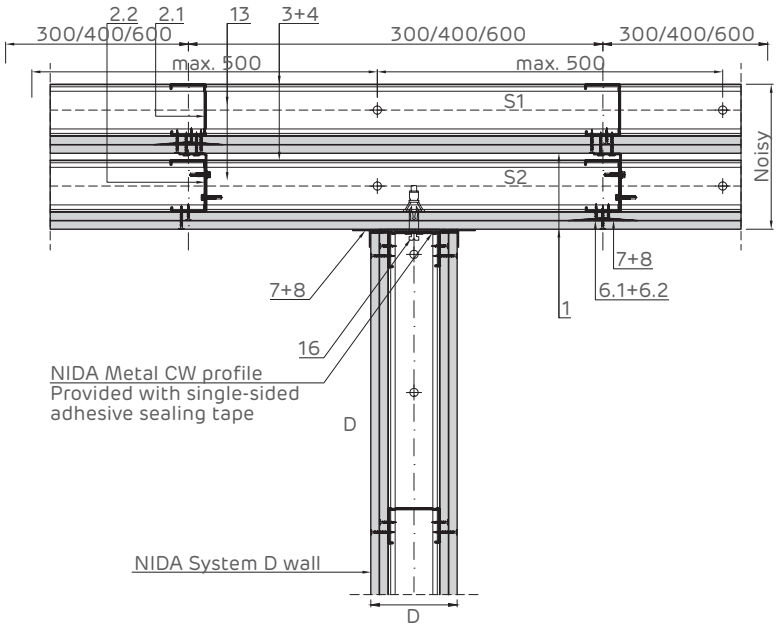


1. 2x2 Siniat plasterboard
2.1 NIDA Metal CW @ Structure 1 single upright
2.2 NIDA Metal CW @ Structure 2 single upright
2.3 NIDA Metal CW @ Structure 1 double upright
2.4 NIDA Metal CW @ Structure 2 double upright
3. NIDA Metal UW runner profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
10. Self-drilling 5.5x25 2 pcs./fastening
11. Self-tapping screw 212xL3 + flat washer @500mm
12. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
13. Mineral wool
14. NIDA Profesional corner protection profile
15. NIDA Boardfix adhesive
16. MOLLY @ 500 mm metal dowel
17. Rigid (concrete) support

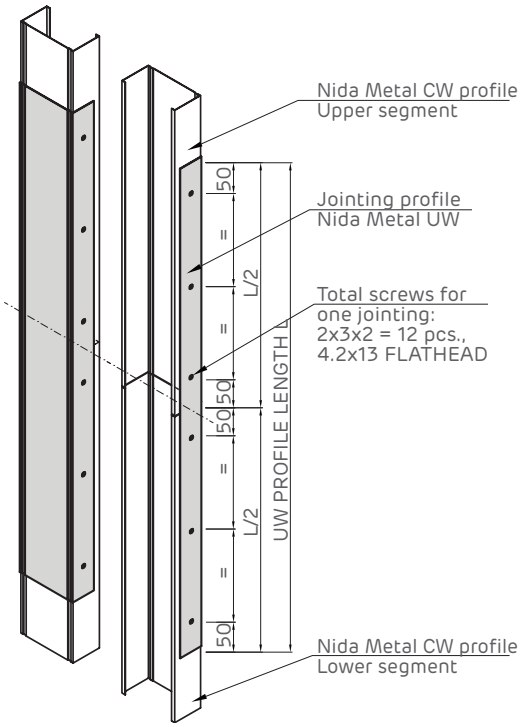
Three-sided enclosing of installations housing Horizontal section.



Horizontal section: Crossing with NIDA System D distribution wall.

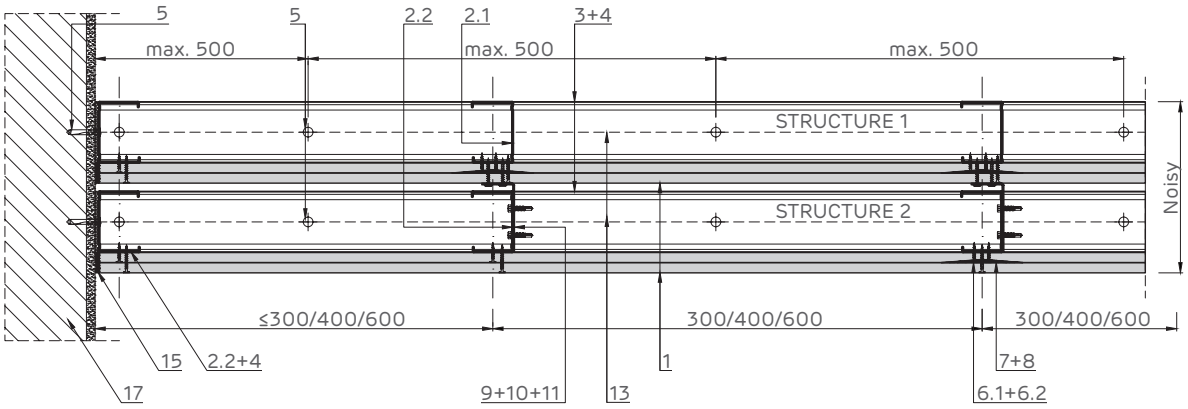


Jointing detail of NIDA Metal CW single profiles.

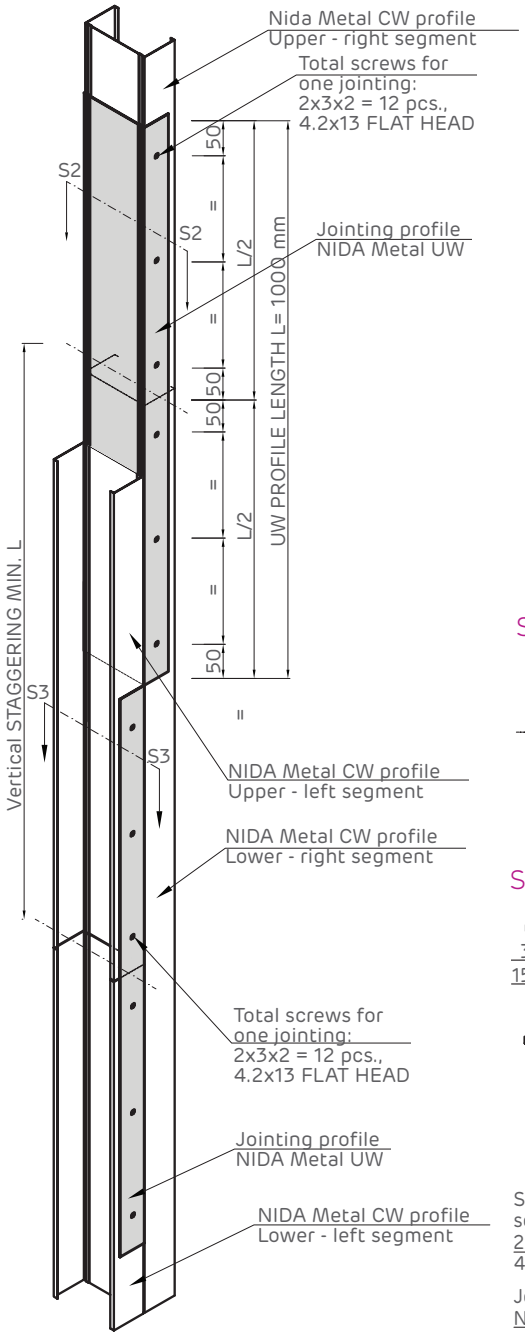


N°	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

Horizontal section: Rigid jointing with sturdy item

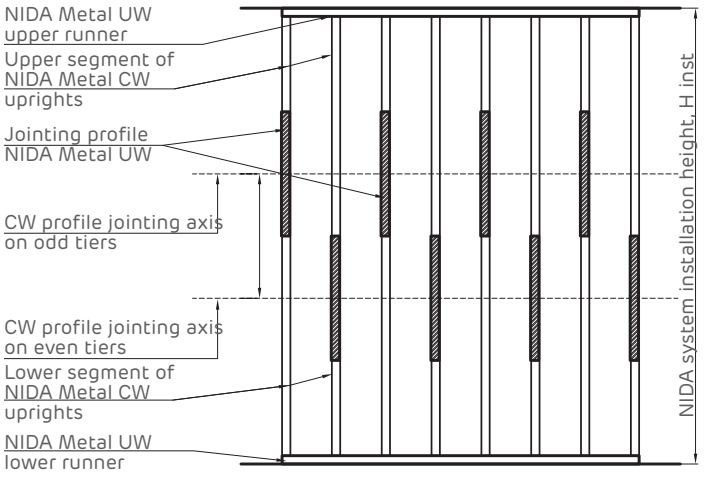


Jointing detail of NIDA Metal CW double profiles.

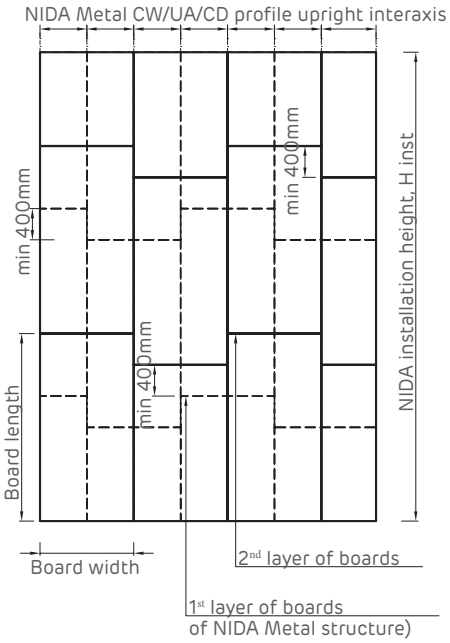


Nº	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

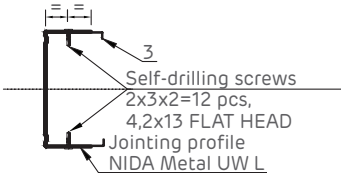
NIDA Metal CW profile joint staggering System elevation.



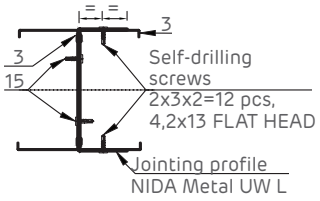
Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap



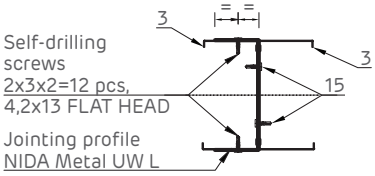
Section S1



Section S2



Section S3

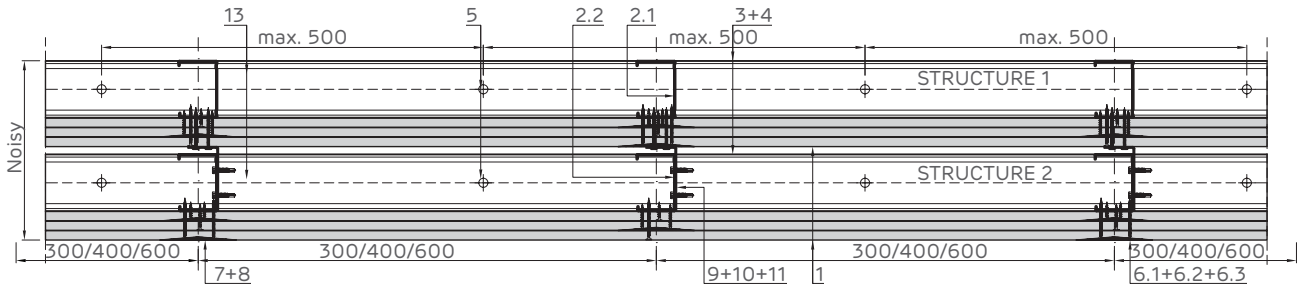


1. 2x2 Siniat plasterboard
2.1. NIDA Metal CW @ Structure 1 single upright
2.2. NIDA Metal CW @ Structure 2 single upright
2.3. NIDA Metal CW @ Structure 1 double upright
2.4. NIDA Metal CW @ Structure 2 double upright
3. NIDA Metal UW runner profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1. Self-tapping screw 212xL1 @ 600
6.2. Self-tapping screw 212xL2 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
10. Self-drilling 5.5x25 2 pcs./fastening
11. Self-tapping screw 212xL3 + flat washer @500mm
12. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
13. Mineral wool
14. NIDA Profesional corner protection profile
15. NIDA Boardfix adhesive
16. MOLLY @ 500 mm metal dowel
17. Rigid (concrete) support

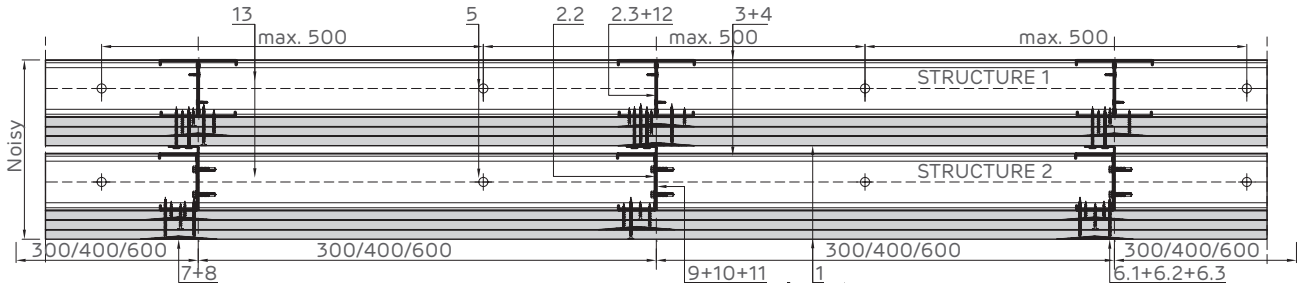
NIDA System N.CW.I

Shaft-wall with NIDA System N.CW.I triple-layer **lining** inwards and outwards on NIDA Metal CW/UW independent double structure

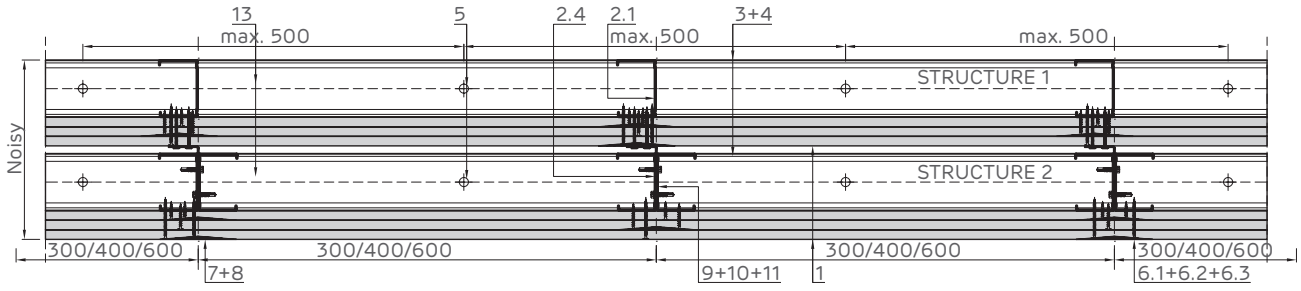
Horizontal section: Single upright for Structure 1 and Structure 2



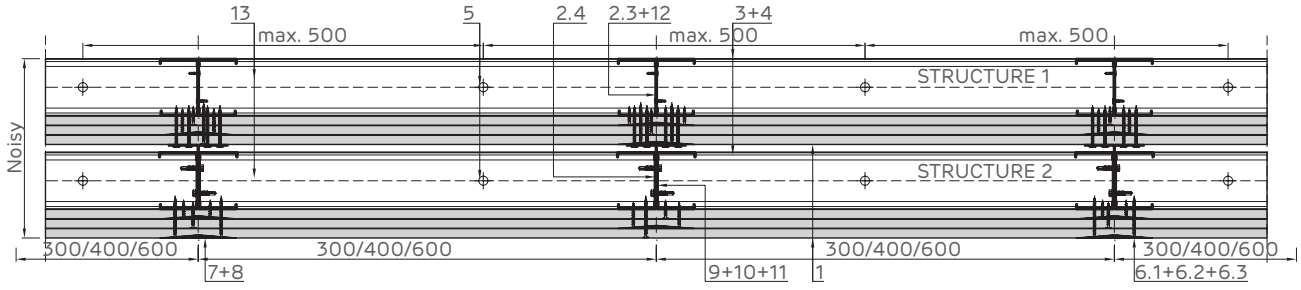
Horizontal section: Double upright for Structure 1 and single upright for Structure 2



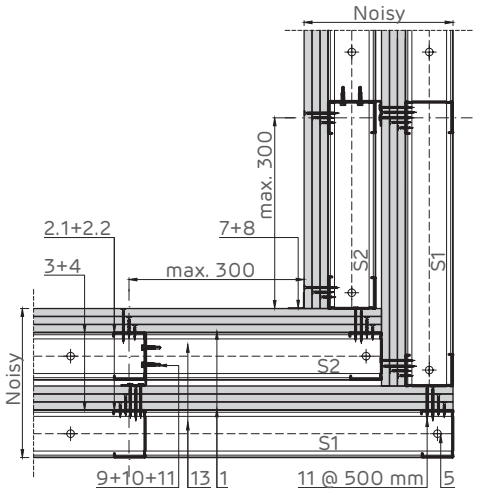
Horizontal section: Single upright for Structure 1 and double upright for Structure 2



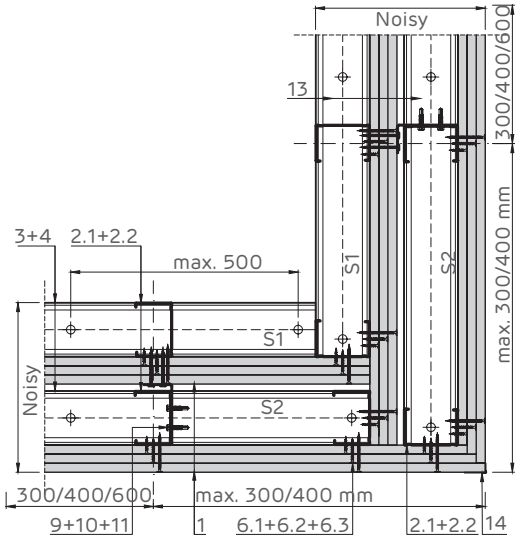
Horizontal section: Double upright for Structure 1 and Structure 2



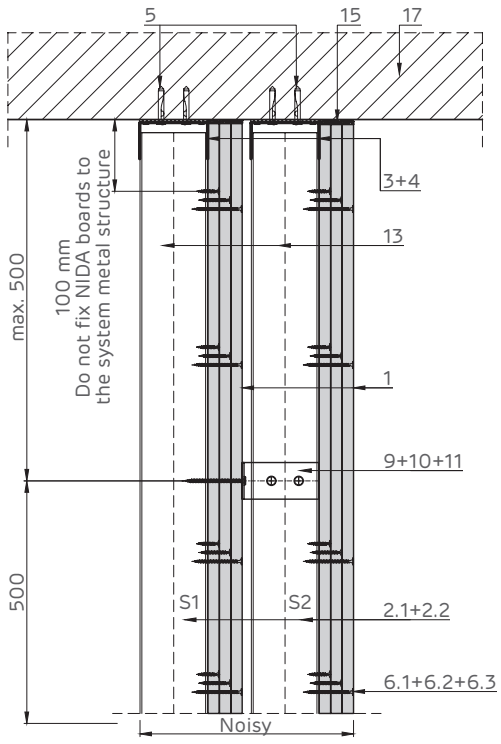
90° corner joint..
Horizontal section.



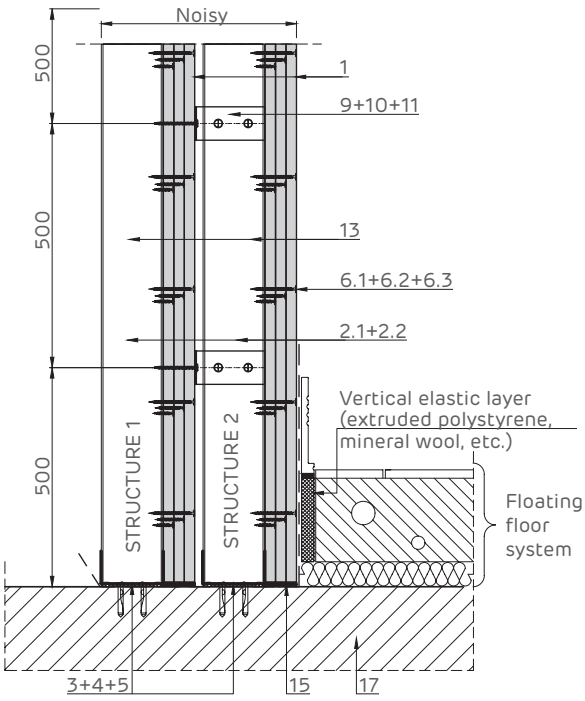
270° corner joint.. H. inst < 6 m.
Horizontal section.



Detailed attachment at the top on reinforced concrete members.
Vertical section

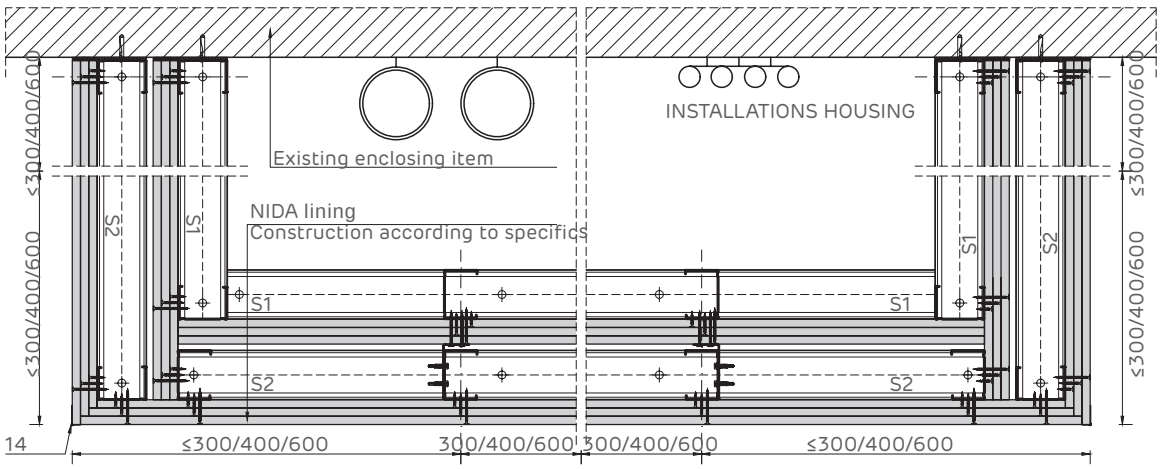


Detailed crossing with floating floor system.
Vertical section at the bottom of the lining.
For superior acoustic performance.

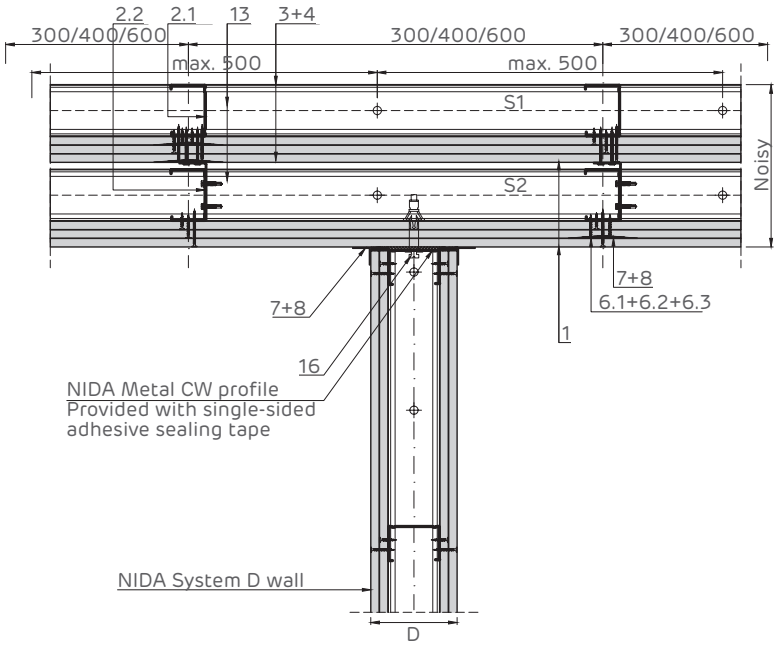


1. 2x3 Siniat plasterboard
2.1 NIDA Metal CW @ Structure 1 single upright
2.2 NIDA Metal CW @ Structure 2 single upright
2.3 NIDA Metal CW @ Structure 1 double upright
2.4 NIDA Metal CW @ Structure 2 double upright
3. NIDA Metal UW runner profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
10. Self-drilling 5.5x25 2 pcs./fastening
11. Self-tapping screw 212xL4 + flat washer @500mm
12. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
13. Mineral wool
14. NIDA Profesional corner protection profile
15. NIDA Boardfix adhesive
16. MOLLY @ 500 mm metal dowel
17. Rigid (concrete) support

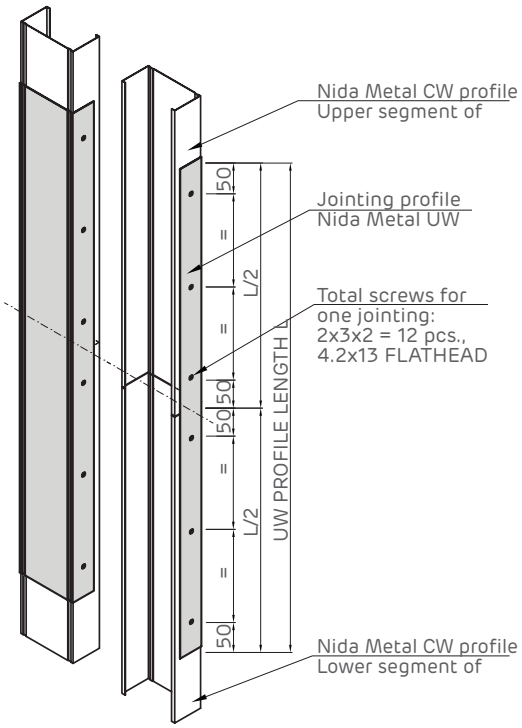
Three-sided enclosing of installations housing Horizontal section.



Horizontal section: Crossing with NIDA System D distribution wall.

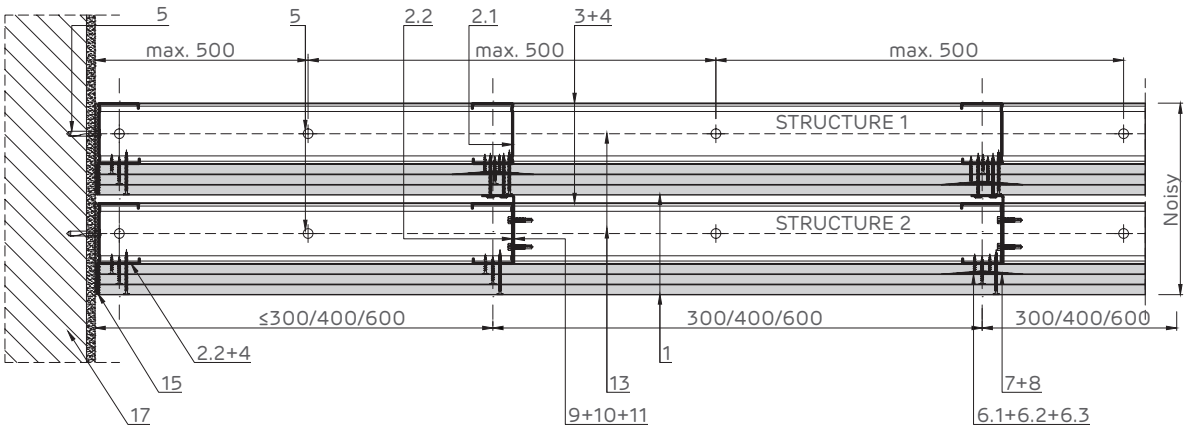


Jointing detail of NIDA Metal CW single profiles.

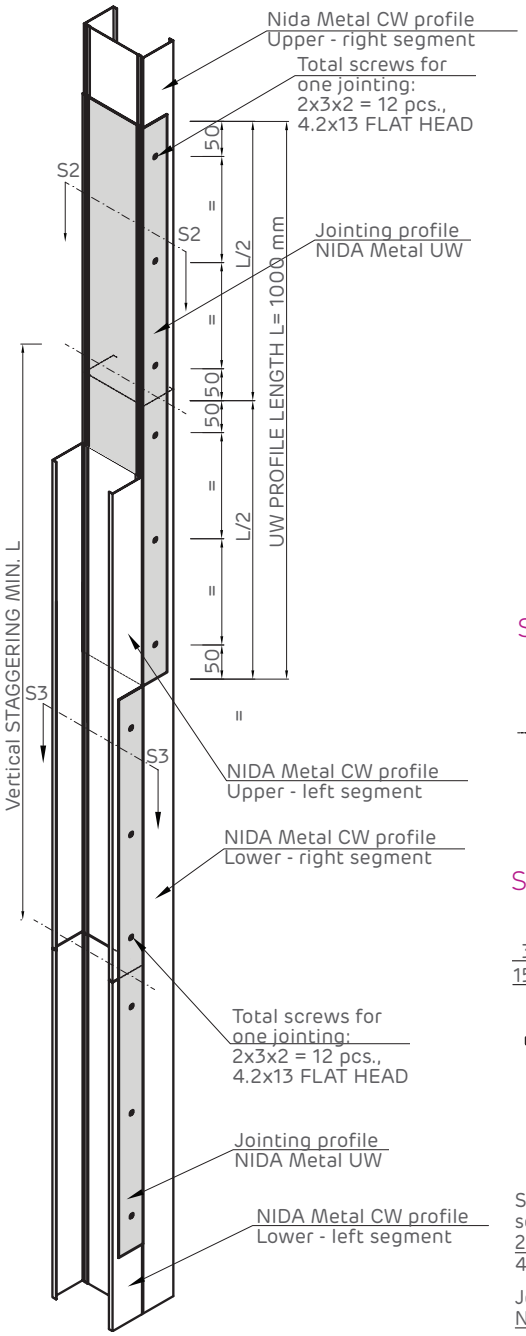


Nº	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

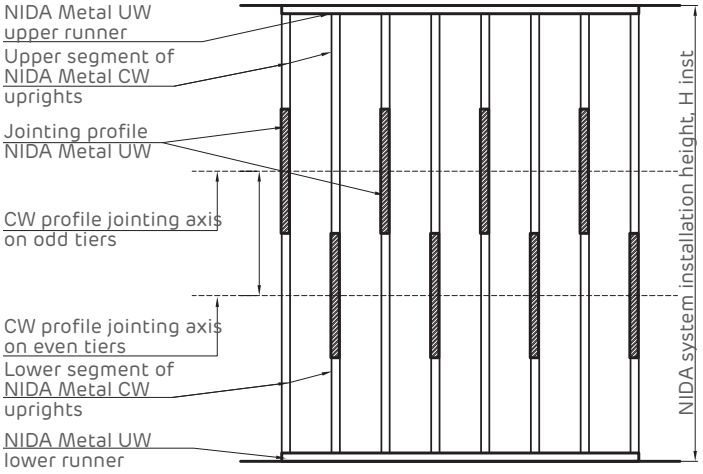
Horizontal section: Rigid jointing with sturdy item



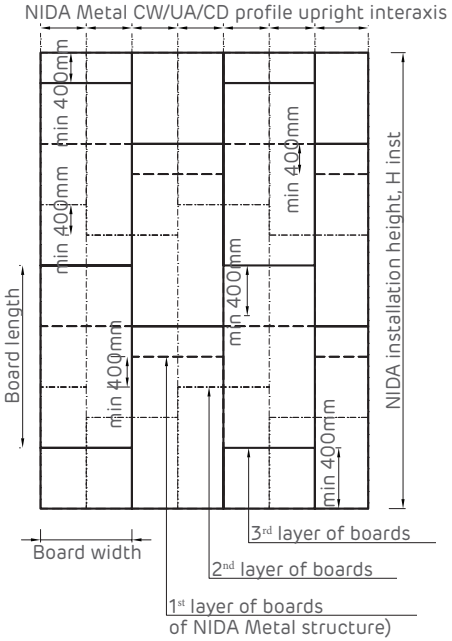
Jointing detail of NIDA Metal CW double profiles.



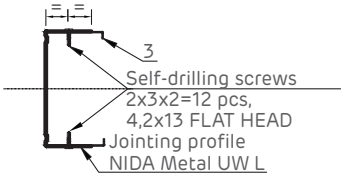
NIDA Metal CW profile joint staggering System elevation.



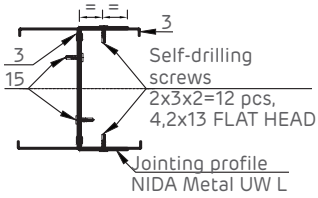
Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap



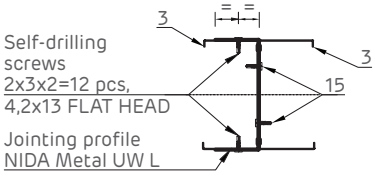
Section S1



Section S2



Section S3



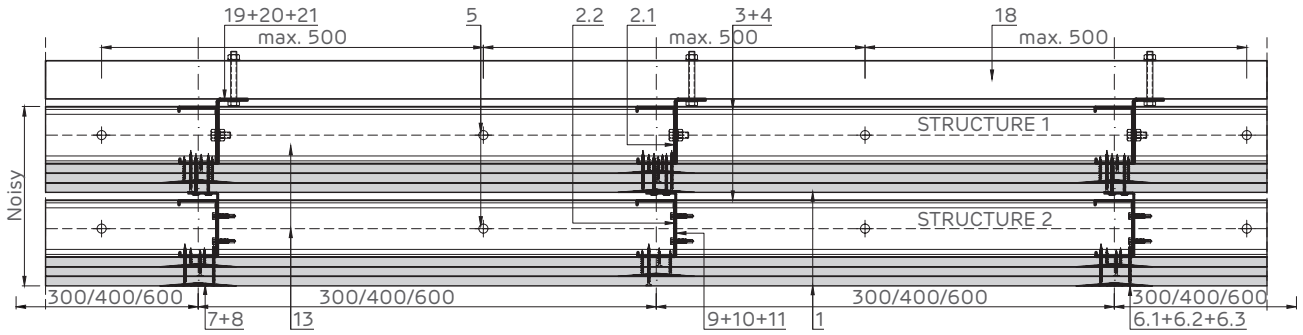
Nº	NIDA Metal jointing profile	UW jointing profile length (mm)
1	UW 50	L=1000
2	UW 75	L=1500
3	UW 100	L=2000

1. 2x3 Siniat plasterboard
2.1 NIDA Metal CW @ Structure 1 single upright
2.2 NIDA Metal CW @ Structure 2 single upright
2.3 NIDA Metal CW @ Structure 1 double upright
2.4 NIDA Metal CW @ Structure 2 double upright
3. NIDA Metal UW runner profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
10. Self-drilling 5.5x25 2 pcs./fastening
11. Self-tapping screw 212xL4 + flat washer @500mm
12. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
13. Mineral wool
14. NIDA Profesional corner protection profile
15. NIDA Boardfix adhesive
16. MOLLY @ 500 mm metal dowel
17. Rigid (concrete) support

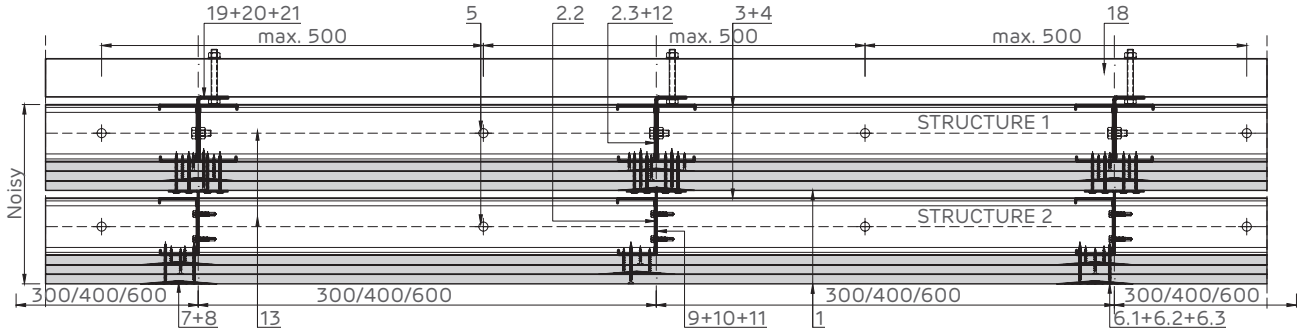
NIDA System N.CW.F

NIDA System Noisy triple-layer **lining** inwards and outwards with N.CW.F intermediate fixing on NIDA Metal CW/UW double sructure

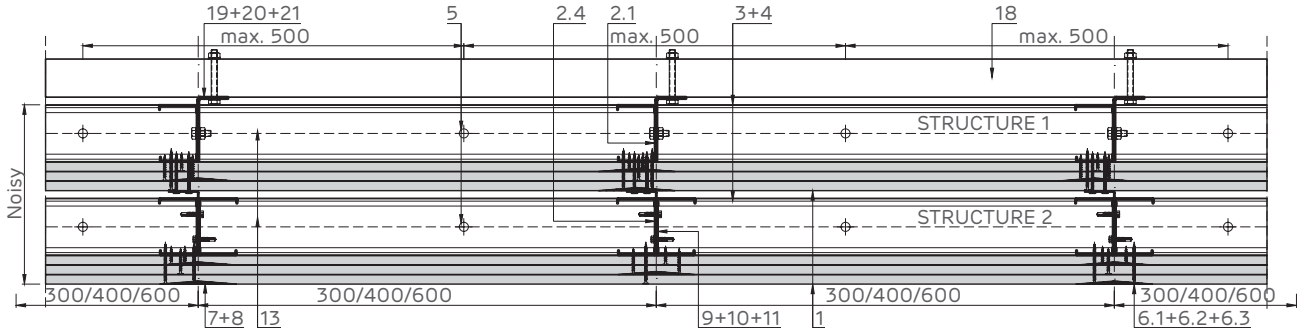
Horizontal section: Single upright for Structure 1 and Structure 2



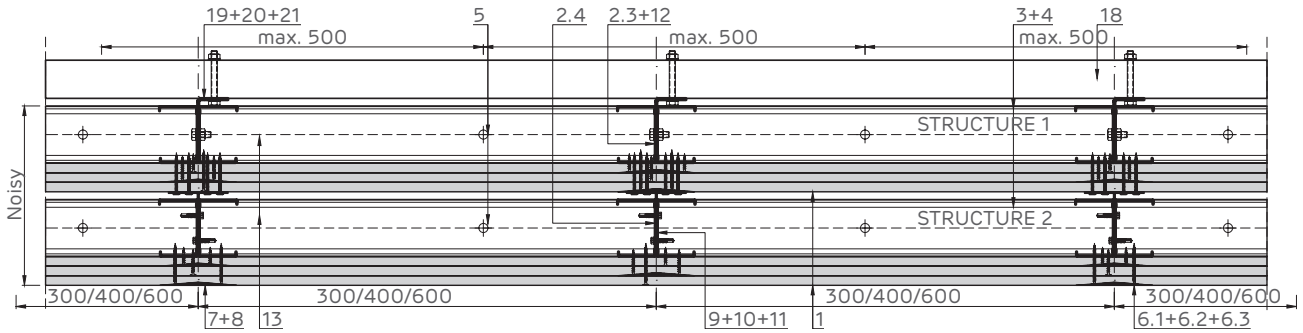
Horizontal section: Double upright for Structure 1 and single upright for Structure 2



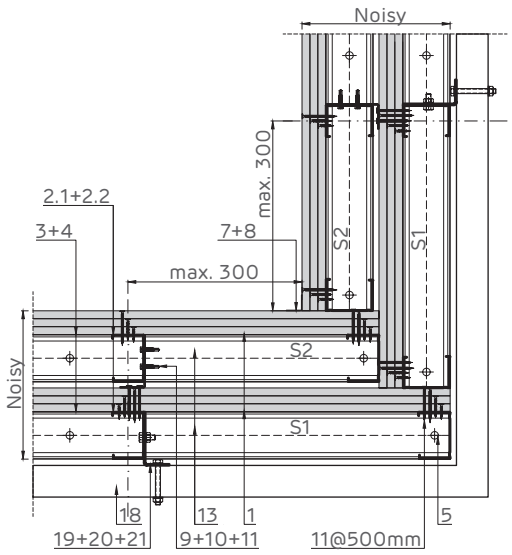
Horizontal section: Single upright for Structure 1 and double upright for Structure 2



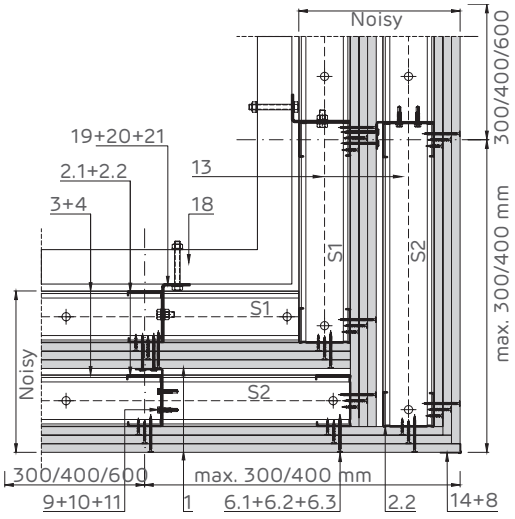
Horizontal section: Double upright for Structure 1 and Structure 2



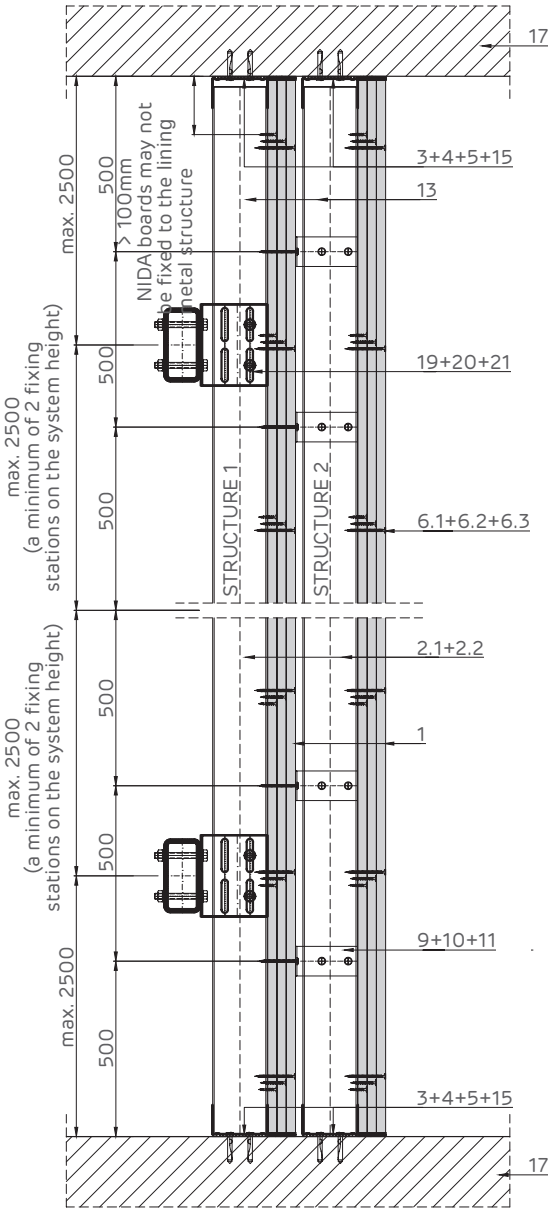
90° corner joint..
Horizontal section.



270° corner joint.. H. inst < 6 m.
Horizontal section.

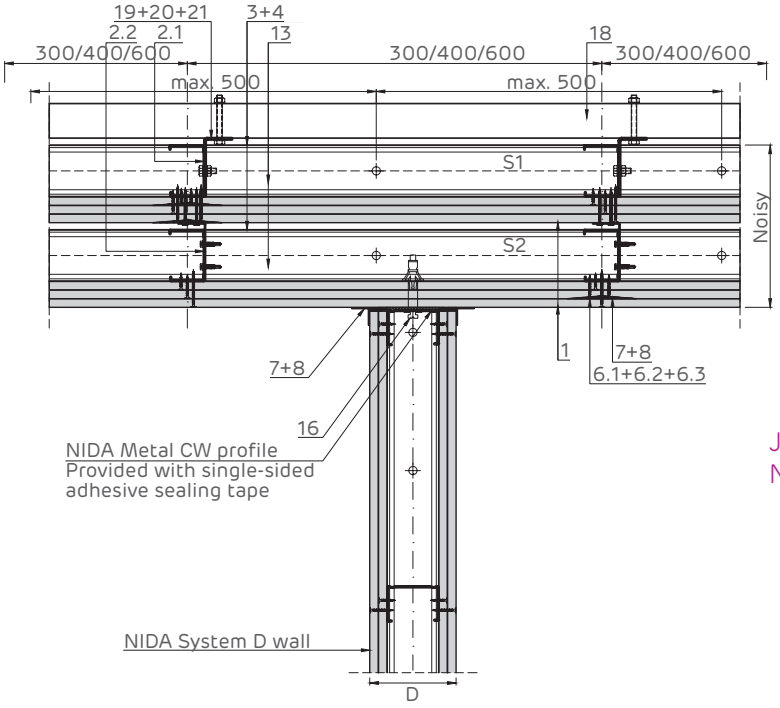


Fastening detail at the system bottom and top.
Vertical section

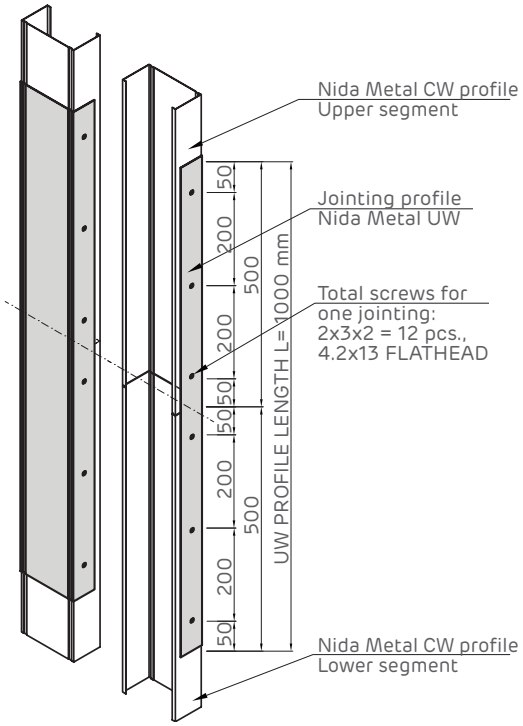


1. 2x3 Siniat plasterboard
2.1 NIDA Metal CW @ Structure 1 single upright
2.2 NIDA Metal CW @ Structure 2 single upright
2.3 NIDA Metal CW @ Structure 1 double upright
2.4 NIDA Metal CW @ Structure 2 double upright
3. NIDA Metal UW runner profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
10. Self-drilling 5.5x25 2 pcs./fastening
11. Self-tapping screw 212xL4 + flat washer @500mm
12. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
13. Mineral wool
14. NIDA Profesional corner protection profile
15. NIDA Boardfix adhesive
16. MOLLY @ 500 mm metal dowel
17. Rigid (concrete) support
18. Intermediate horizontal beam of the building structure
19. NIDA Metal angle 2 mm
20. Mechanical fixing (*1) 2 pcs/attachment
21. M8 screws 2 pcs/attachment

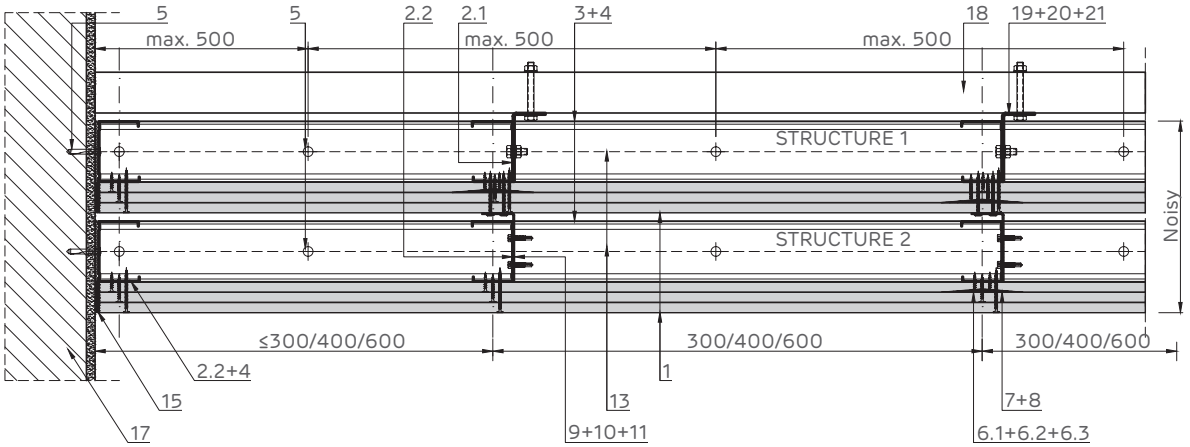
Horizontal section:
Crossing with NIDA System D distribution wall.



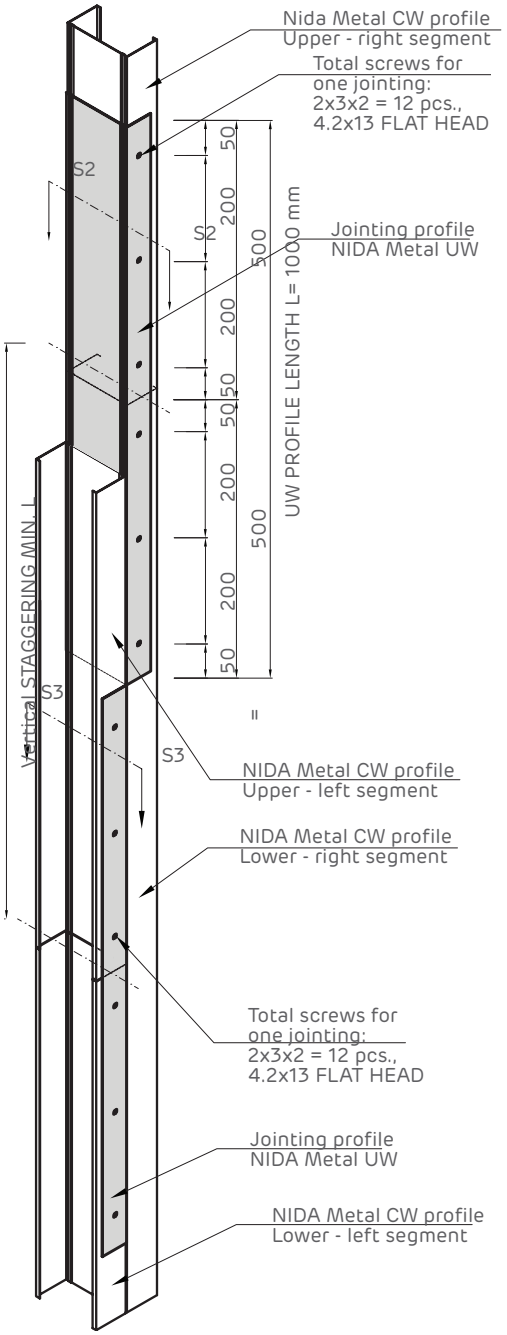
Jointing detail of
NIDA Metal CW single profiles.



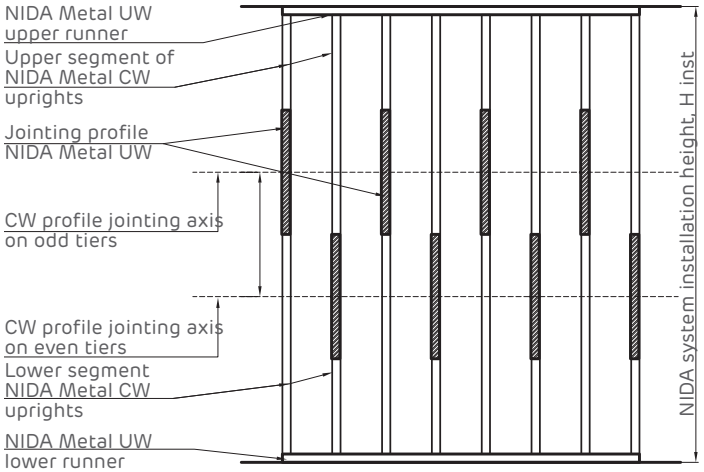
Horizontal section: Rigid jointing with sturdy item



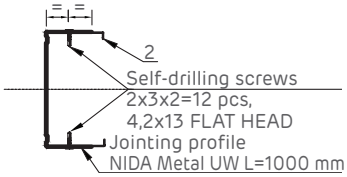
Jointing detail of NIDA Metal CW double profiles.



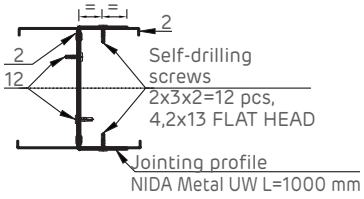
NIDA Metal CW profile joint staggering System elevation.



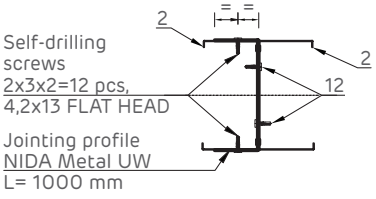
Section S1



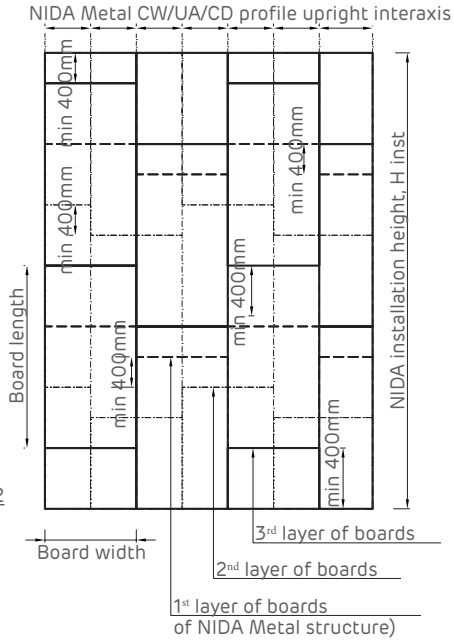
Section S2



Section S3



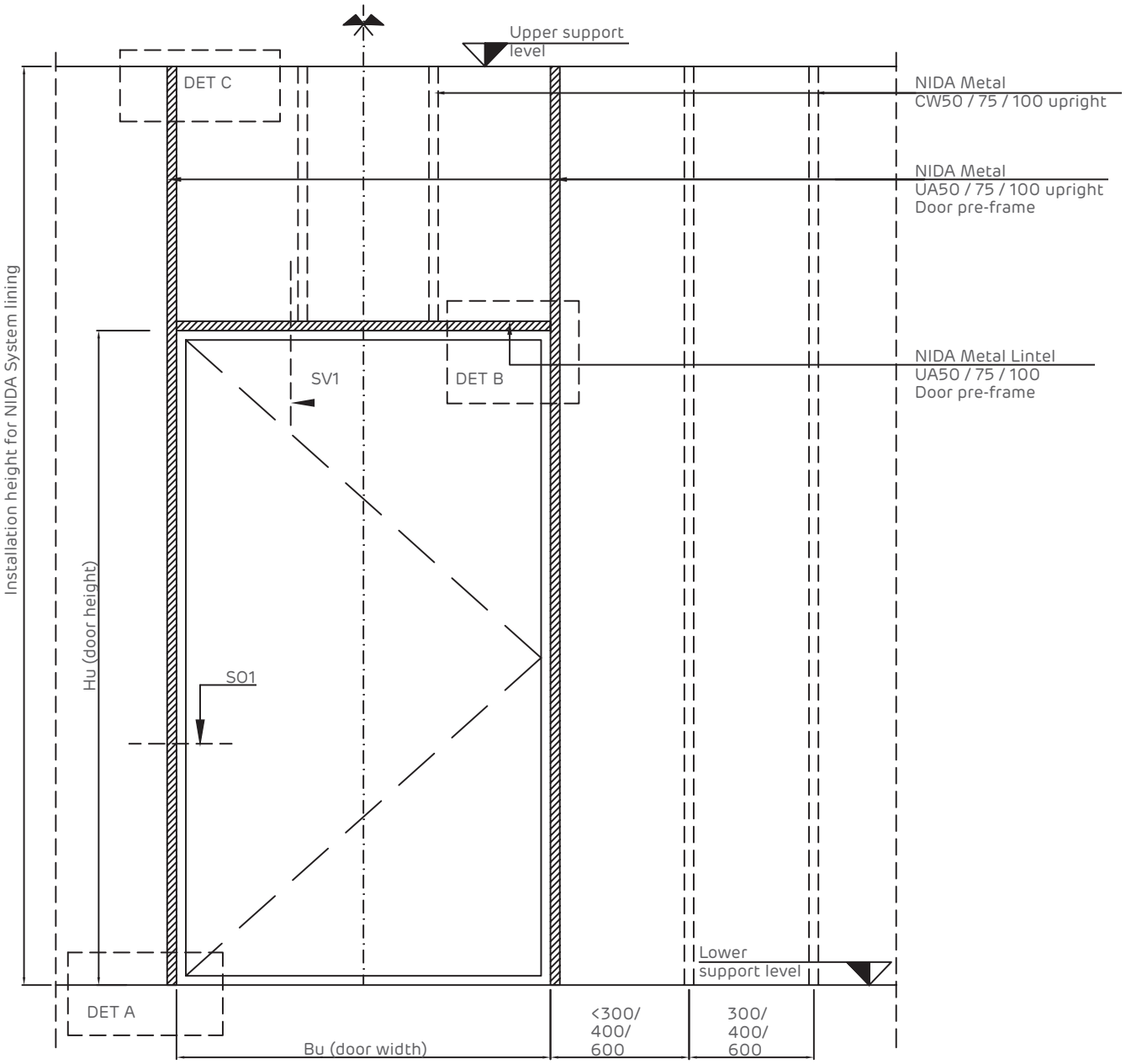
Board staggering. System elevation. Vertical and horizontal joints should be staggered to avoid overlap



1. 2x3 Siniat plasterboard
2.1 NIDA Metal CW @ Structure 1 single upright
2.2 NIDA Metal CW @ Structure 2 single upright
2.3 NIDA Metal CW @ Structure 1 double upright
2.4 NIDA Metal CW @ Structure 2 double upright
3. NIDA Metal UW runner profile
4. Single-sided sealing tape
5. Mechanical fixing - Max. pitch 500 mm (*1)
6.1 Self-tapping screw 212xL1 @ 600
6.2 Self-tapping screw 212xL2 @ 600
6.3 Self-tapping screw 212xL3 @ 300
7. Jointing tape (*2)
8. NIDA Profesional jointing plaster
9. 200x40x40x2 mm corner iron Laid out vertically @ 500 mm
10. Self-drilling 5.5x25 2 pcs./fastening
11. Self-tapping screw 212xL4 + flat washer @500mm
12. Self-drilling screw 4.2x13 FLAT HEAD in zigzag@500mm
13. Mineral wool
14. NIDA Profesional corner protection profile
15. NIDA Boardfix adhesive
16. MOLLY @ 500 mm metal dowel
17. Rigid (concrete) support
18. Intermediate horizontal beam of the building structure
19. NIDA Metal angle 2 mm
20. Mechanical fixing (*1) 2 pcs/attachment
21. M8 screws 2 pcs/attachment

NIDA System - Door Pre-Frame

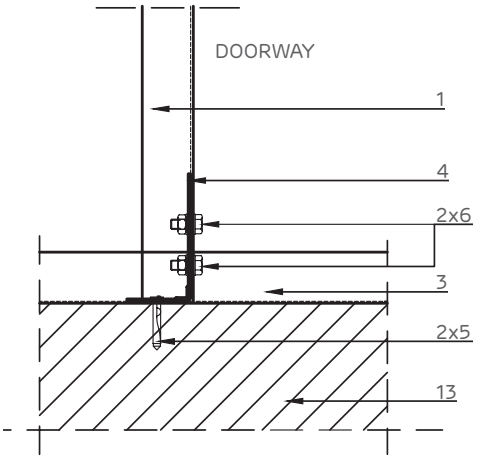
NIDA Metal UA 50 / 75 / 100 Structure Elevation of partition wall structure and door pre-frame



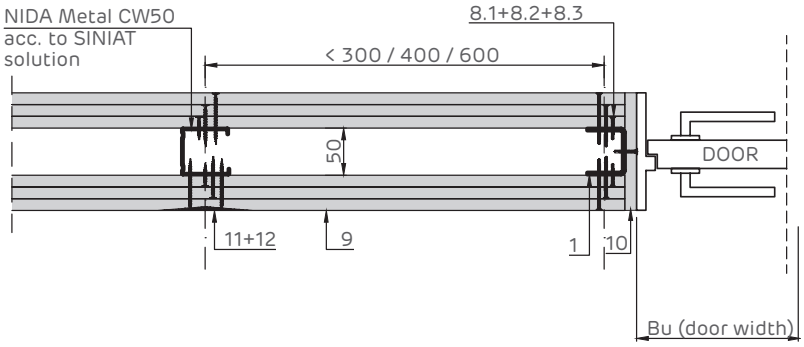
NIDA System - Door Pre-Frame

NIDA Metal UA50 Structure

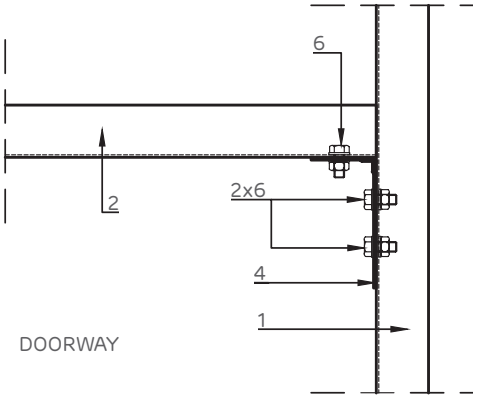
Det A - Vertical section



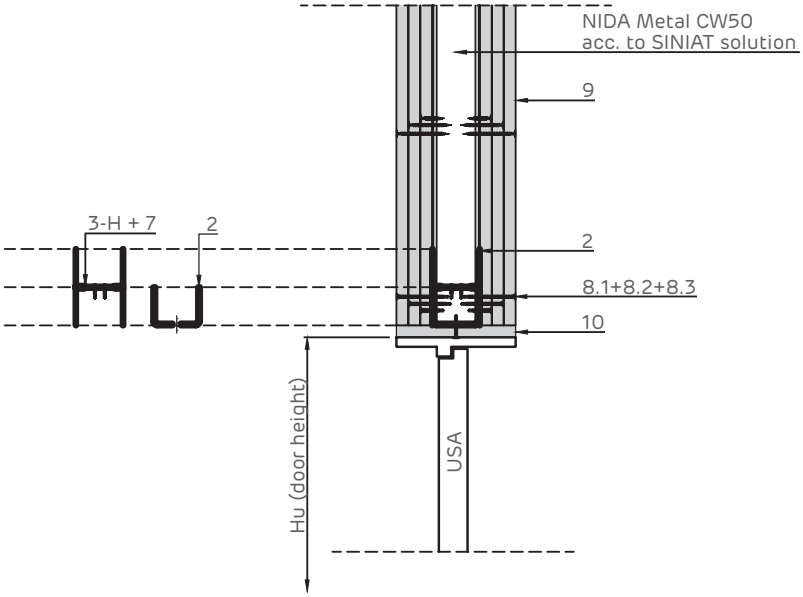
S01.horizontal section



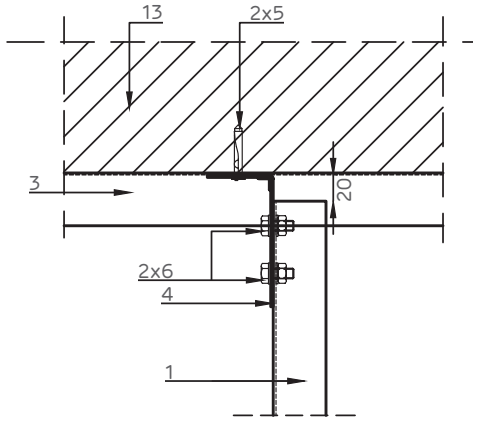
Det B - Vertical section



Horizontal section SV1.



Det C - Vertical section



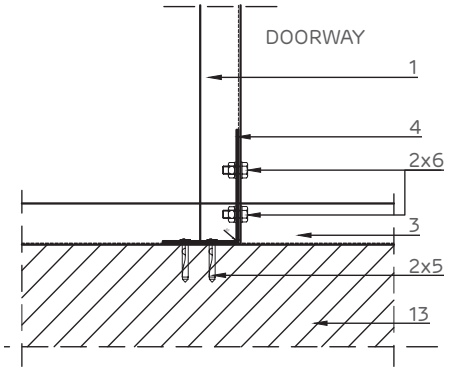
(iii) The best performing wallboard with superior fire resistance should be chosen.
Example: If the wall is composed of NIDA Standard 12.5 mm and NIDA Flam 12.5 mm, NIDA Flam 12.5 mm should be chosen.

1. NIDA Metal UA50 upright Door pre-frame
2. NIDA Metal UA50 lintel Door pre-frame
3. NIDA Metal UW50 runner profile
4. Angle bracket for UA50
5. Metal dowel / Conexpand (*1)
6. M8 screw with washer and nut
7. Self-drilling screws 4.2x13 FLAT HEAD
8. 1 Self-drilling screw 221x25 @ 600
8. 2 Self-drilling screw 221x45 @ 600
8. 3 Self-drilling screw 221x55 @ 300
9. 1 / 2 / 3 x Siniat plasterboard
10. Siniat board strip (iii)
11. NIDA Profesional jointing plaster
12. Fiberglass tape
13. (Reinforced concrete) bearing support

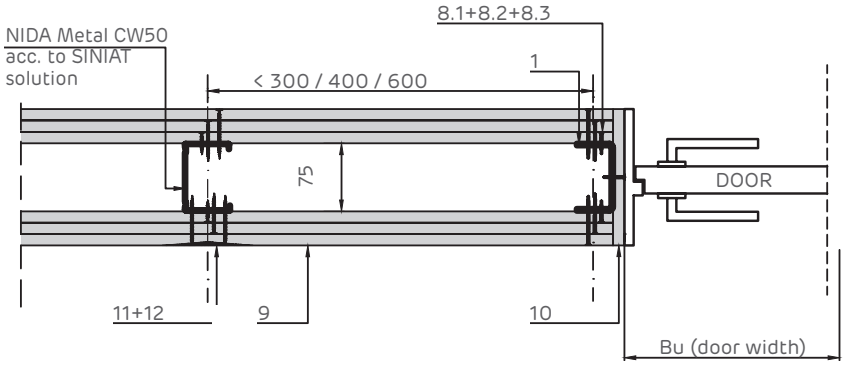
NIDA System - Door Pre-Frame

NIDA Metal UA75 Structure

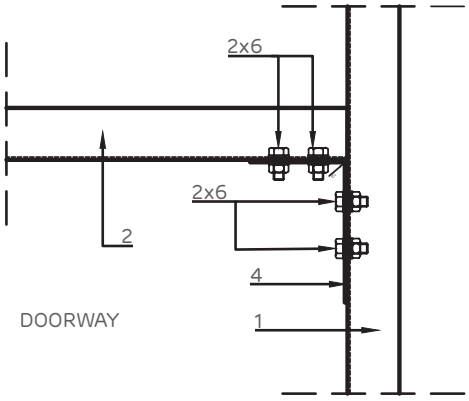
Det A - Vertical section



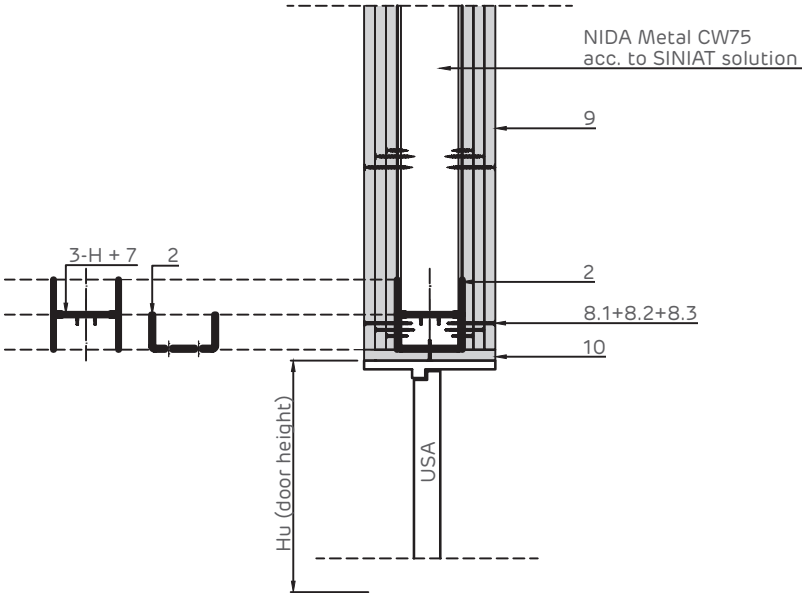
S01.horizontal section



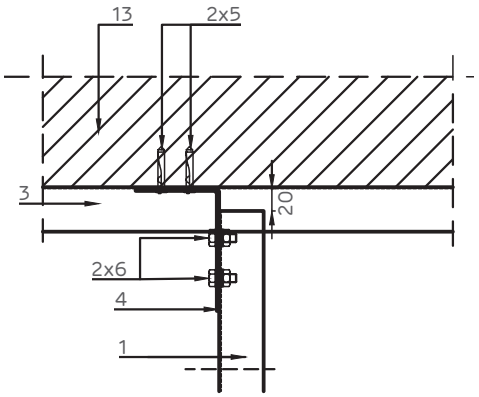
Det B - Vertical section



Horizontal section SV1.



Det C - Vertical section



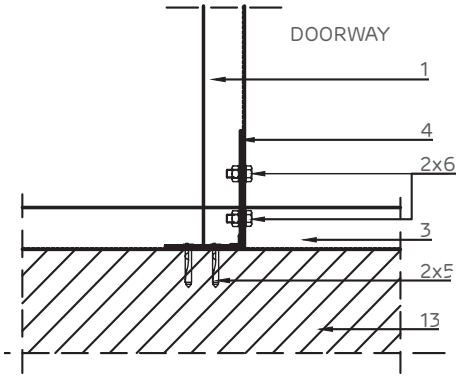
(iii) The best performing wallboard with superior fire resistance should be chosen.
Example: If the wall is composed of NIDA Standard 12.5 mm and NIDA Flam 12.5 mm, NIDA Flam 12.5 mm should be chosen.

1. NIDA Metal UA75 upright Door pre-frame
2. NIDA Metal UA75 lintel Door pre-frame
3. NIDA Metal UW75 runner profile
4. Angle bracket for UA75
5. Metal dowel / Conexpand (*1)
6. M8 screw with washer and nut
7. Self-drilling screws 4.2x13 FLAT HEAD
8. Self-drilling screw 221x25 @ 600
9. Self-drilling screw 221x45 @ 600
10. Self-drilling screw 221x55 @ 300
11. 1 / 2 / 3 x Siniat plasterboard
12. Siniat board strip (iii)
13. NIDA Profesional jointing plaster
14. Fiberglass tape
15. (Reinforced concrete) bearing support

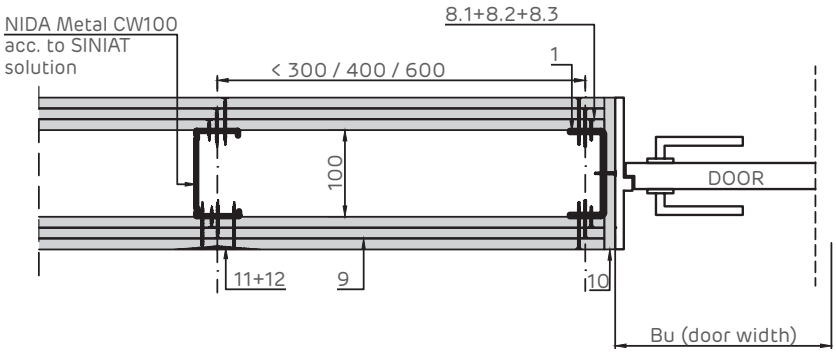
NIDA System - Door Pre-Frame

NIDA Metal UA100 Structure

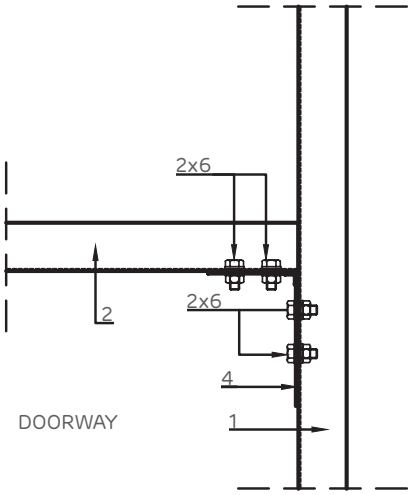
Det A - Vertical section



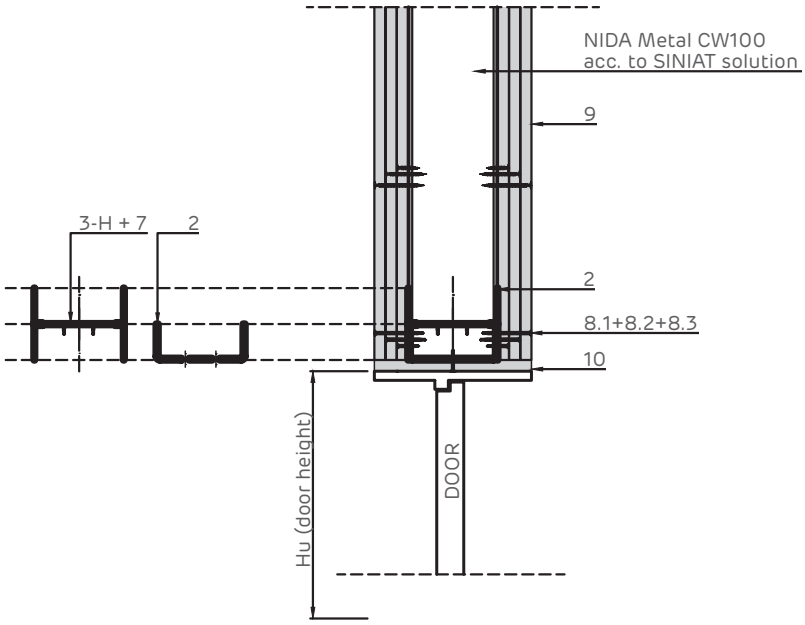
S01.horizontal section



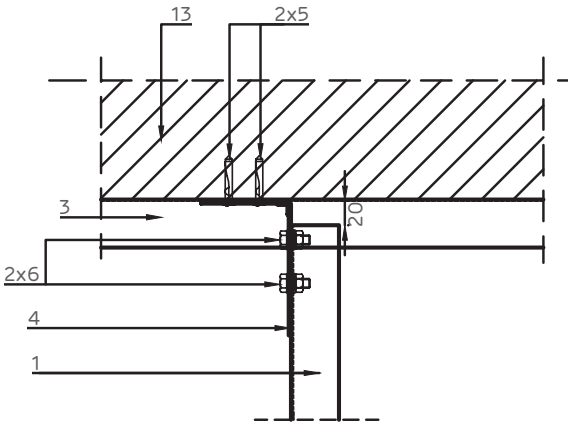
Det B - Vertical section



Horizontal section SV1.



Det C –Vertical section.

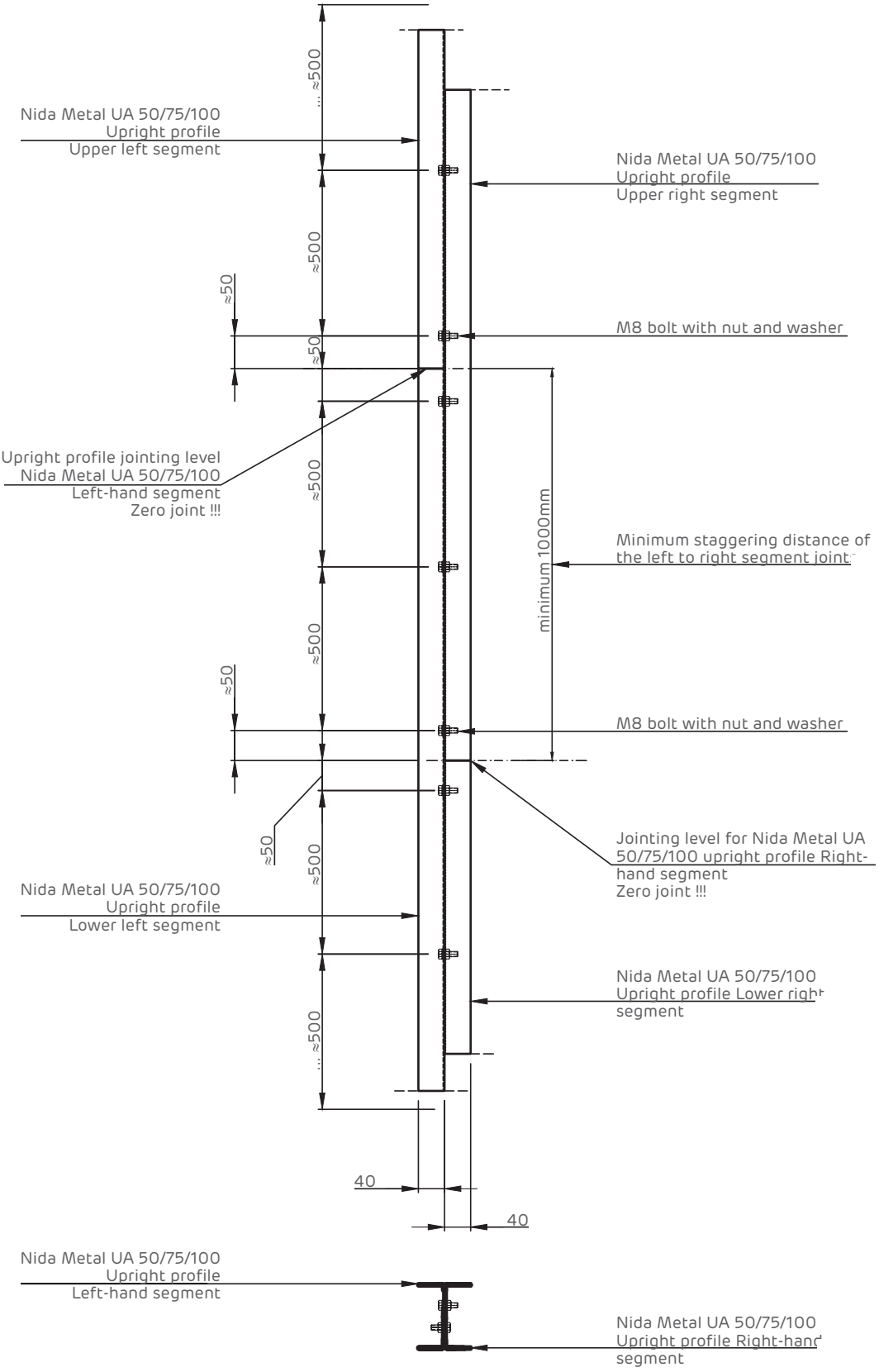


(iii) The best performing wallboard with superior fire resistance should be chosen.
Example: If the wall is composed of NIDA Standard 12.5 mm and NIDA Flam 12.5 mm, NIDA Flam 12.5 mm should be chosen.

1. NIDA Metal UA 100 upright Door pre-frame
2. NIDA Metal UA 100 lintel Door pre-frame
3. NIDA Metal UW 100 runner profile
4. Angle bracket for UA100
5. Metal dowel / Conexpand (*1)
6. M8 screw with washer and nut
7. Self-drilling screws 4.2x13 FLAT HEAD
8. 1 Self-drilling screw 221x25 @ 600
8. 2 Self-drilling screw 221x45 @ 600
8. 3 Self-drilling screw 221x55 @ 300
9. 1 / 2 / 3 x Siniat plasterboard
10. Siniat board strip (iii)
11. NIDA Profesional jointing plaster
12. Fiberglass tape
13. (Reinforced concrete) bearing support

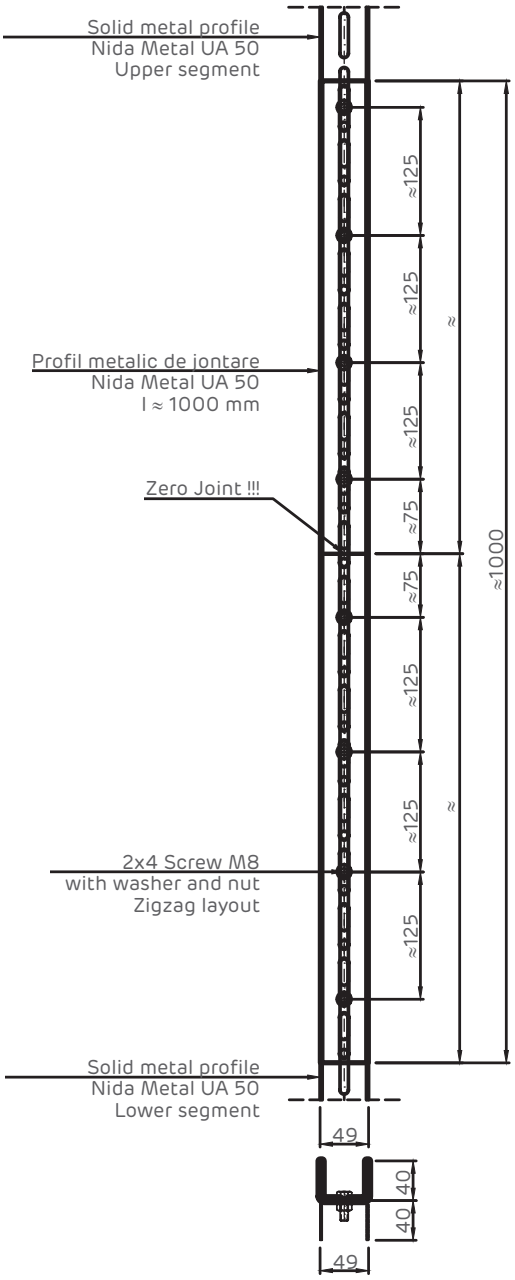
NIDA System - UA50/75/100 profile jointing details

Jointing details for NIDA Metal UA50/75/100-H double upright profiles Local elevation.

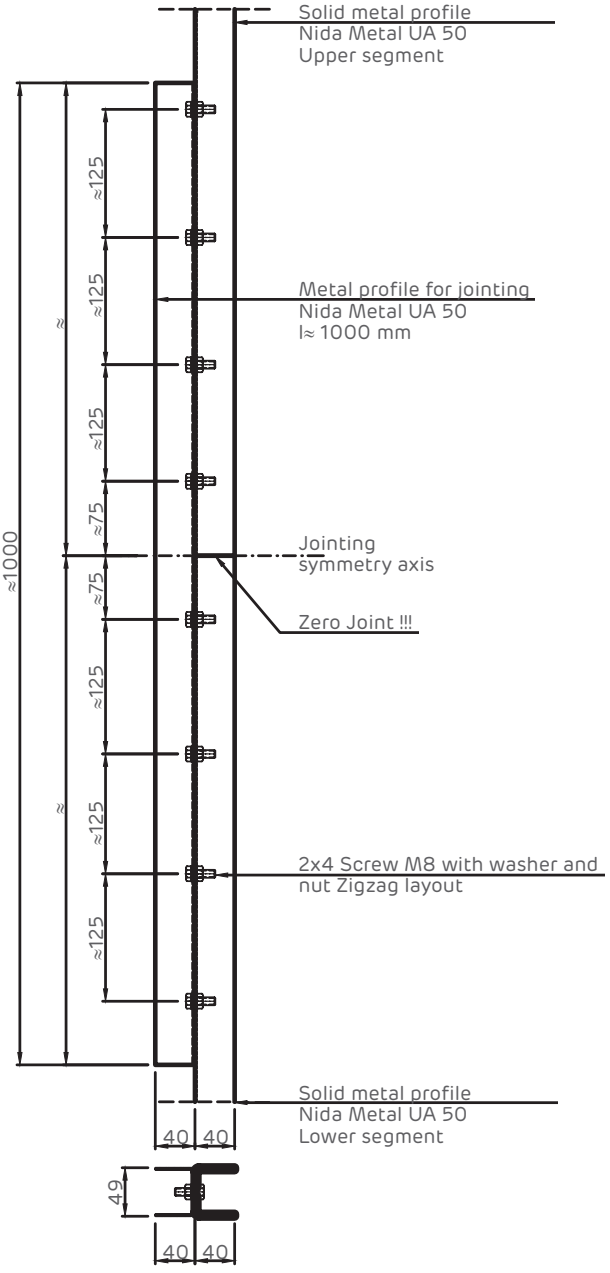


NIDA System - UA50 profile jointing details

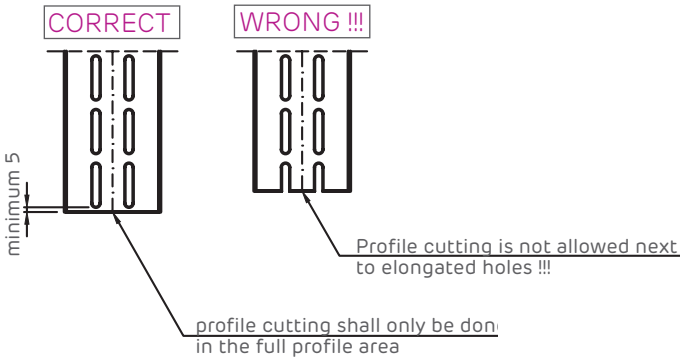
Nida Metal UA 50 profile jointing details. Side view.



Nida Metal UA 50 profile jointing details. Local elevation.

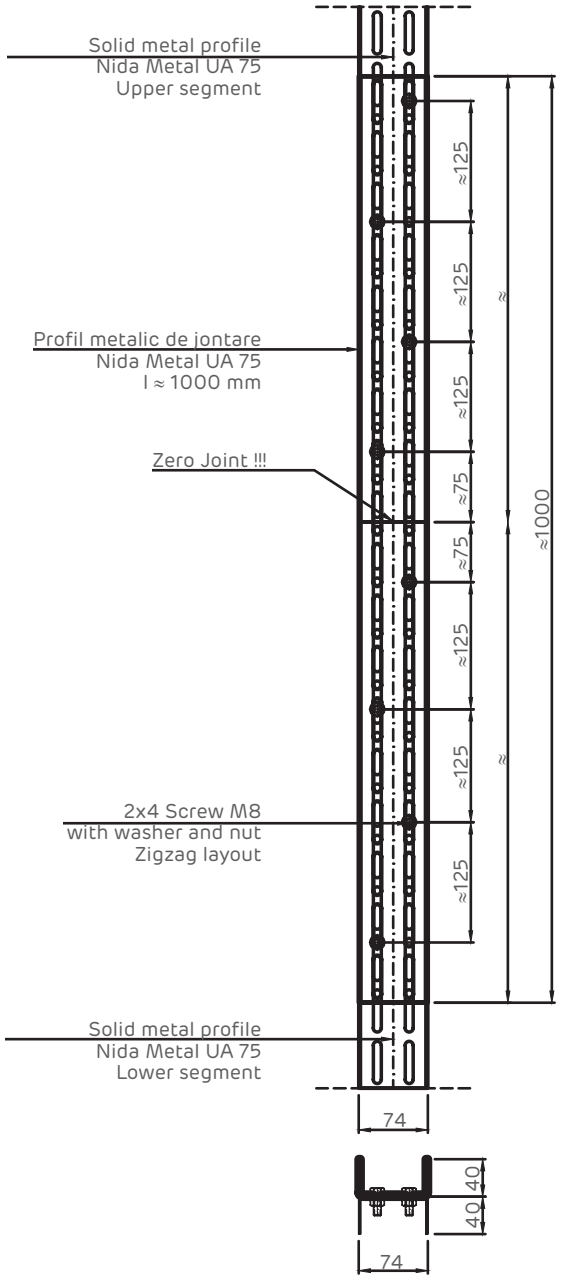


UA profile cutting method.

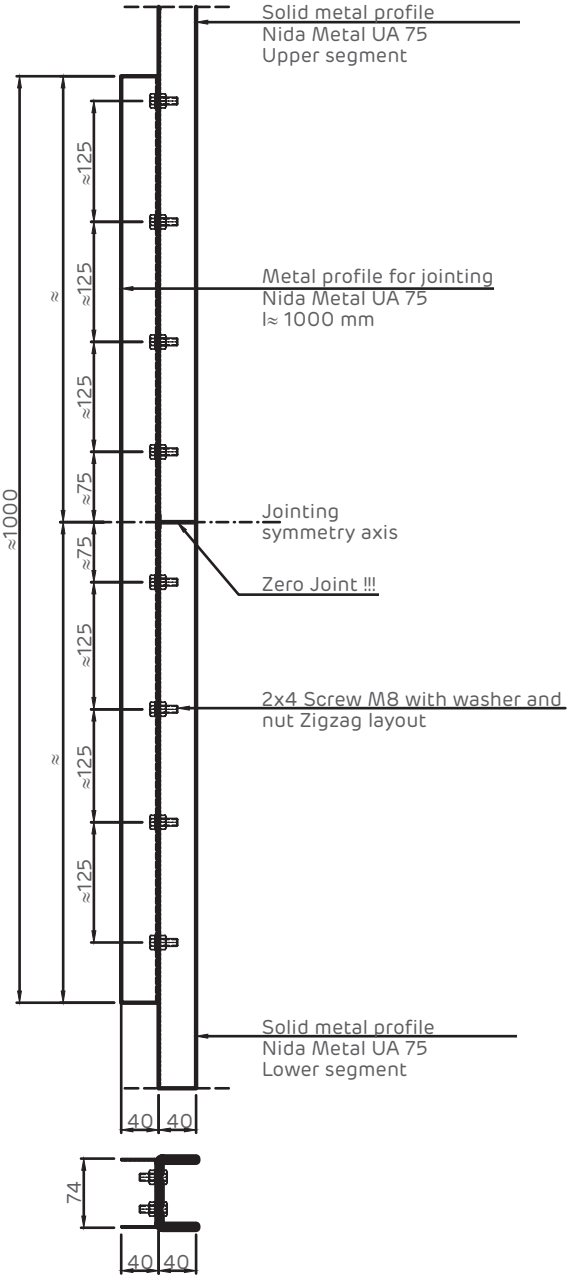


NIDA System - UA75 profile jointing details

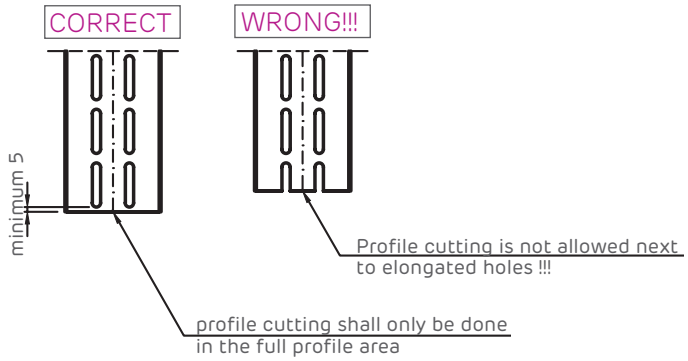
Nida Metal UA 75 profile jointing details. Side view.



Nida Metal UA 75 profile jointing details. Local elevation.

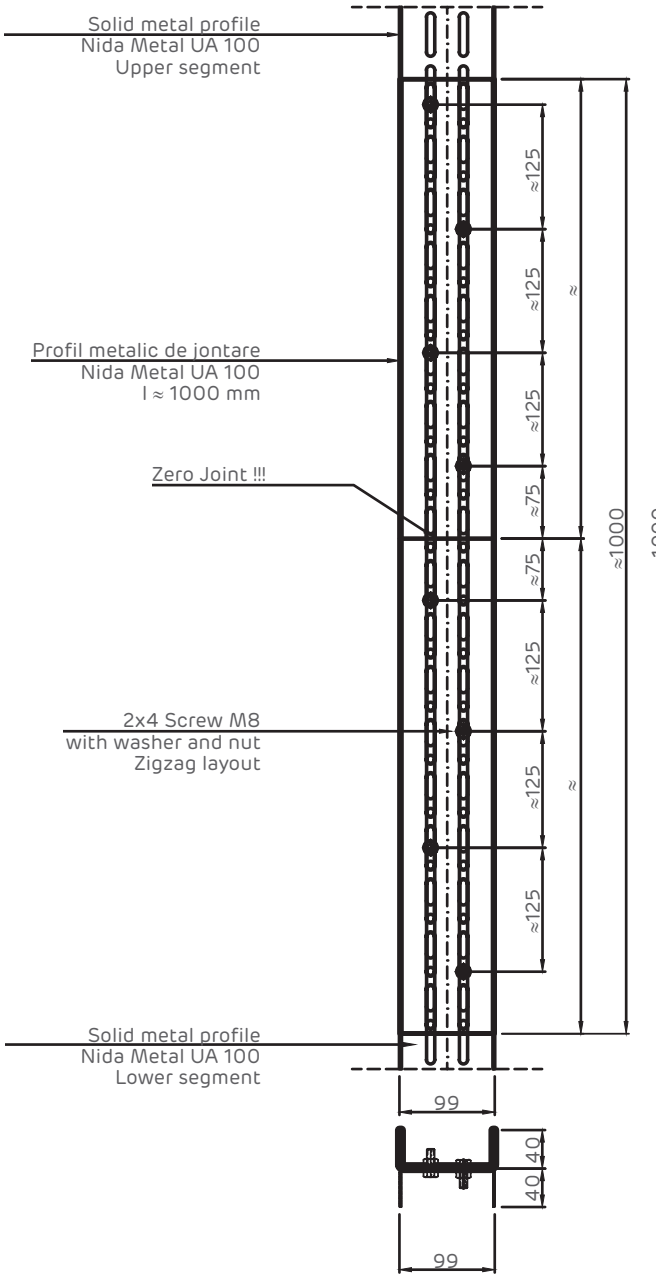


UA profile cutting method.

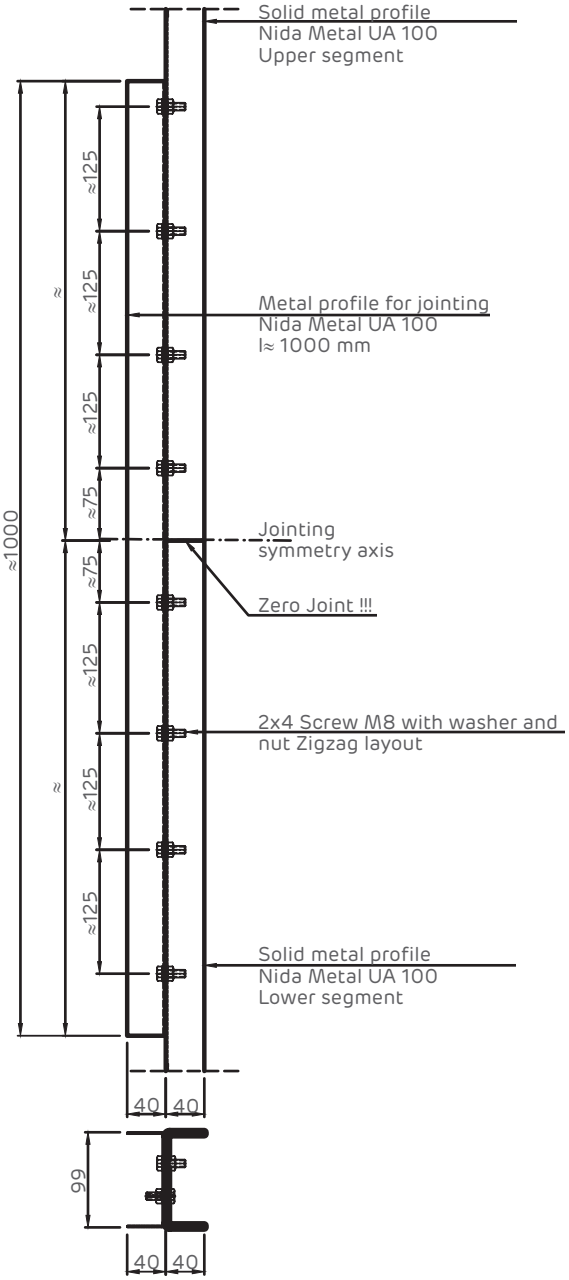


NIDA System - UA100 profile jointing details

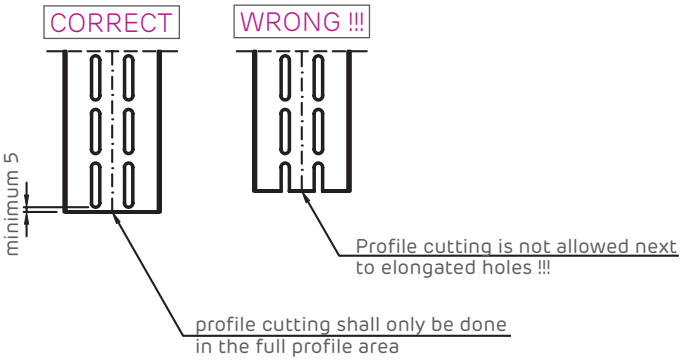
Nida Metal UA 100 profile jointing details. Side view.

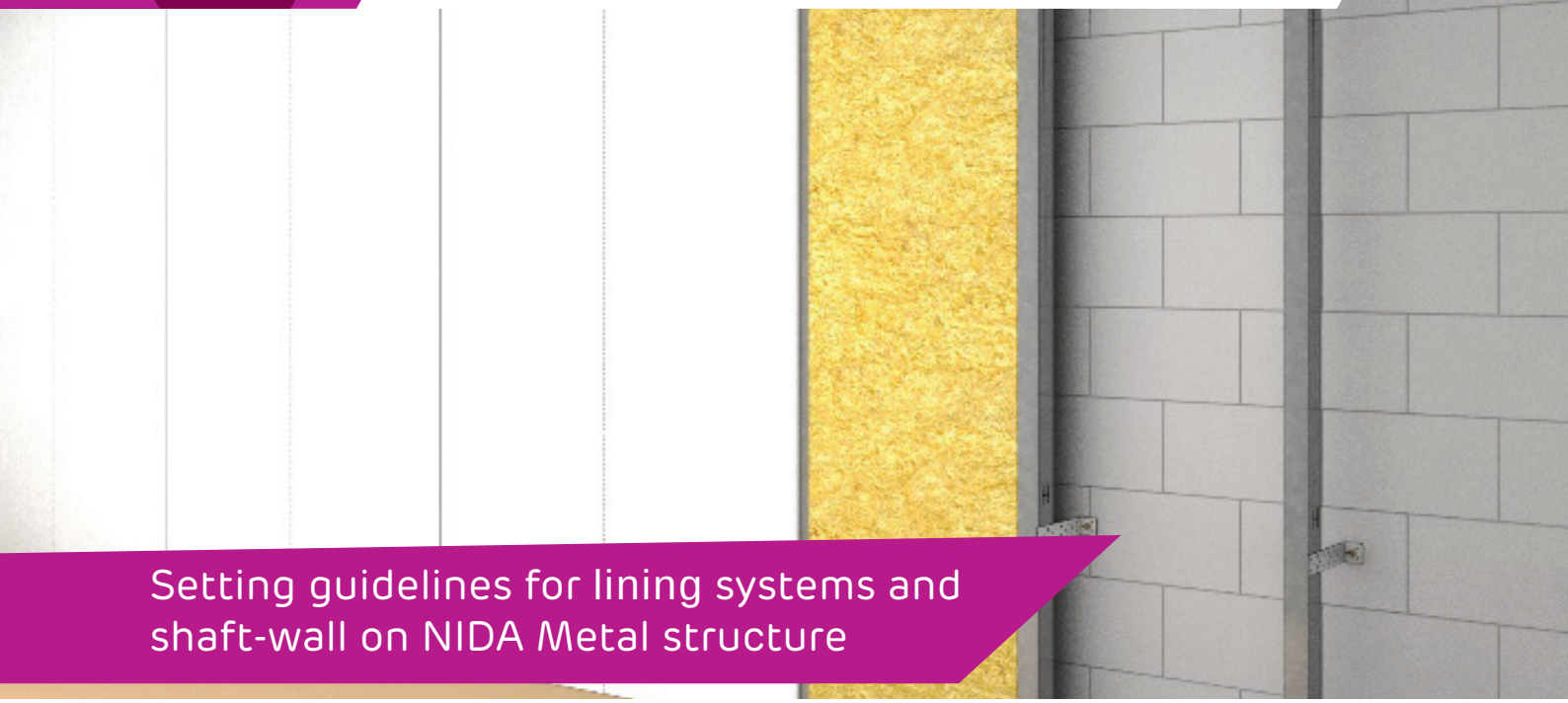


Nida Metal UA 100 profile jointing details. Local elevation.



UA profile cutting method.



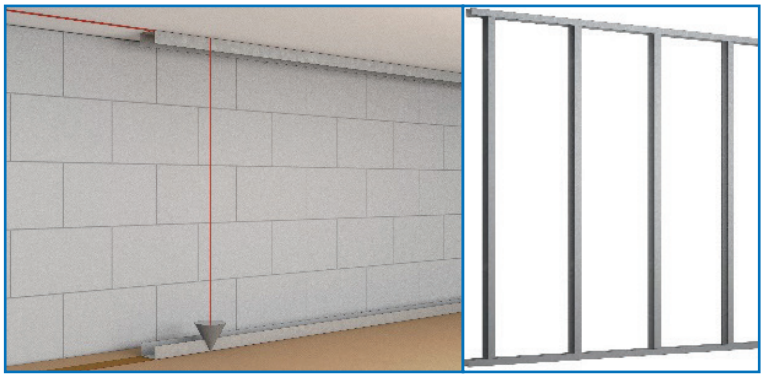


Setting guidelines for lining systems and shaft-wall on NIDA Metal structure

Stage 1: Marking and mounting the metal structures

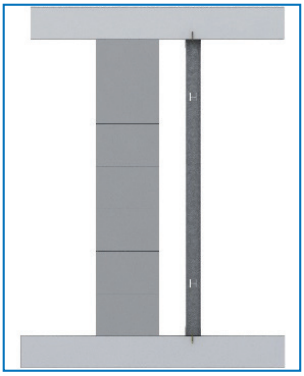
Step 1

Mark out the position of the UW/UD runners on the floor, taking into account the thickness and number of plasterboards to be set up.



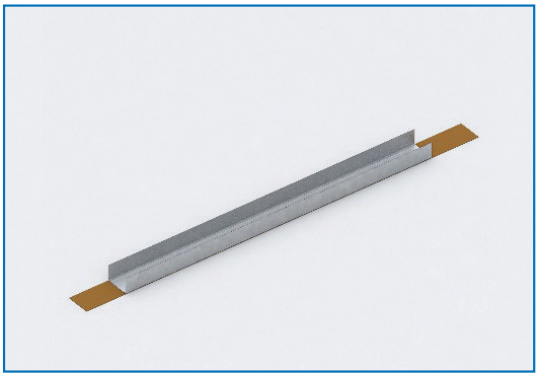
Step 2

Cut the CW/CD uprights to a length 10 mm less than the distance between the floor and the ceiling



Step 3

Apply sealing tape to the runner profile to improve the acoustic properties.

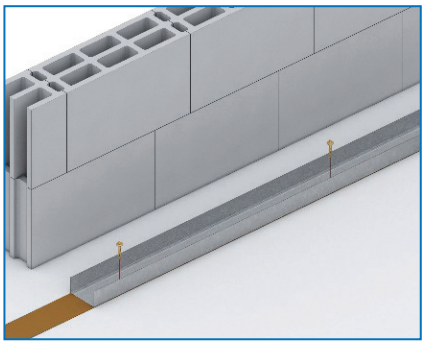


Step 4

Fix the runner profile to the floor and anchor it by one of the following methods:

- Mechanically at 50 cm pitch with dowel screws;
- Bonding if the substrate is clean and smooth;
- Dowel driving

NOTE:
Only non-combustible or fire certified fasteners (e.g. metal dowel, mechanical anchor, etc.) shall be used for fire resistant systems.



Step 5

Mark the position of the upright profiles inside the runners (at 60, 40 or 30 cm intervals as appropriate) on both the floor and the ceiling.

Stage 2: Mounting of uprights and intermediate fasteners (adjustable clamps / Corner irons)

Step 1

Applies only to NIDA System T.CD and T.CW.F type systems

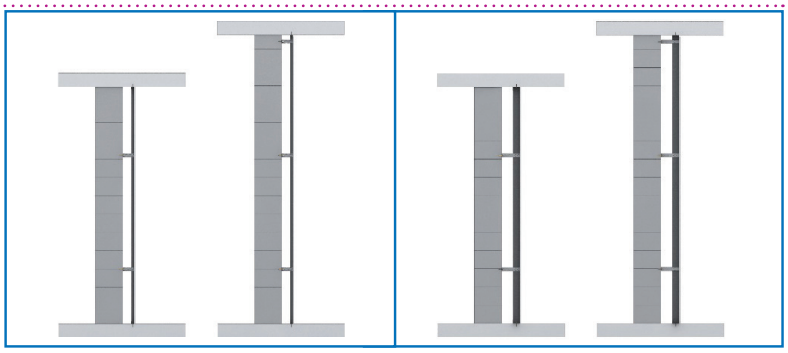
Mark the locations of the intermediate fasteners on the supporting wall. They are fixed to the supporting element using metal dowels.

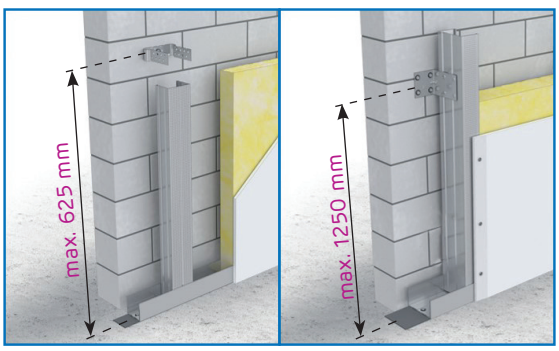
Step 2

Applies only to NIDA System T.CD and T.CW.F type systems

The maximum distances between the fasteners, clamp or corner irons at the ends of the uprights towards the floor and ceiling respectively must not exceed the values of: 625 mm in the case of clamps with CD profiles and 1250 mm in the case of corner irons with CW profiles.

A minimum of two fasteners (clamp or corner iron) must be used per upright (CD or CW profile).





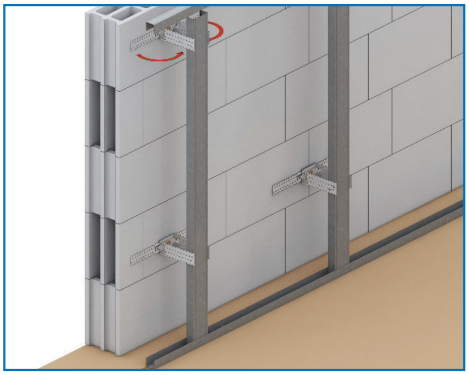
Step 3

Mounting of vertical uprights

Step 4

Applies only to NIDA System T.CD type systems

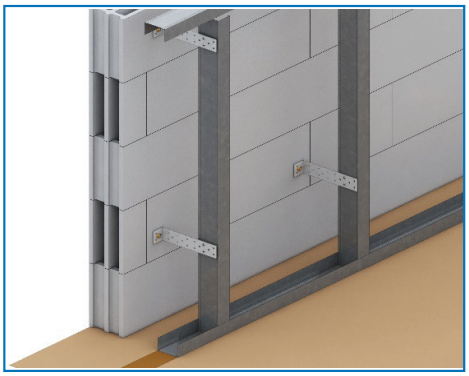
Adjustable clamps:
Place the vertical uprights inside the adjustable metal clamps. Slightly tilt the upright profile when inserting it into the runner. Bring the adjustable clamp arms into position and fix them to the upright profile using the self-drilling screws;



Step 5

Applies only to NIDA System T.CW.F type systems

Corner irons:
Cut the wing of the corner iron to the desired length. Insert the upright profile into the runner and position it next to the corner iron. Secure with self-drilling screws.



Step 6

After fixing the uprights to the intermediate fasteners, check the flatness and verticality of the metal structure thus created using specific tools (water level)

Stage 3: Thermal and sound insulation

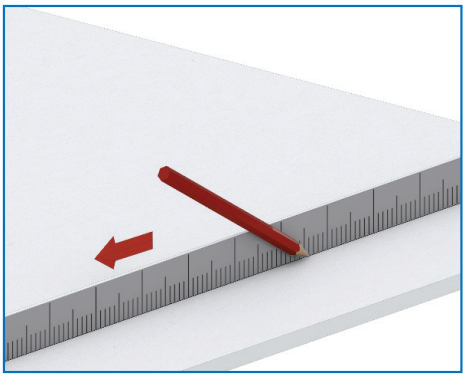
Step 1

- Position the glass wool insulation layer between the supporting wall and the metal structure before fixing the plasterboards.
- Lay electrical wiring and any installations

Stage 4: Cut-out of NIDA plasterboards

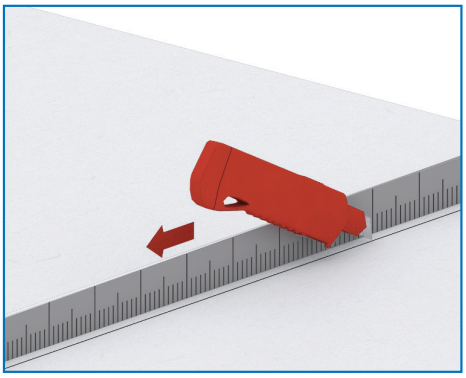
Step 1

Using the pencil and metal ruler, mark the part to be cut out



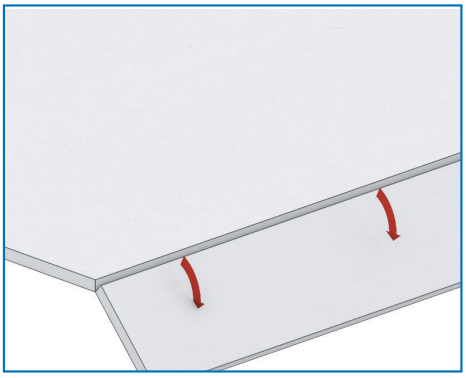
Step 2

Cut the cardboard from the face of the board with a retractable knife guided by a metal ruler



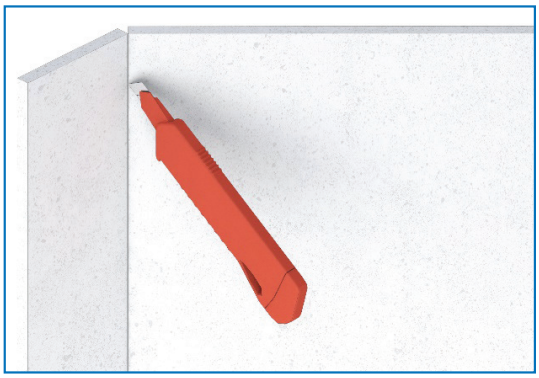
Step 3

Tear the board by applying a short stroke



Step 4

Cut the cardboard from the opposite side.



Stage 5: Mounting of NIDA plasterboards

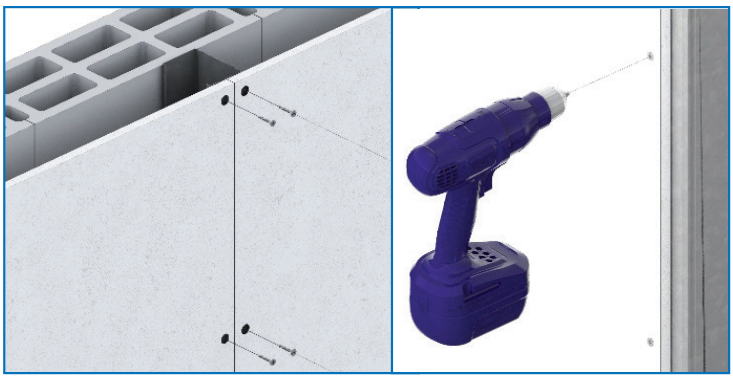
Step 1

Position the boards in a vertical position, glued to the uprights and secured up to the ceiling. If it is necessary to cut out the electrical sockets, it is advisable to do this before mounting the boards, using a pendulum saw.

Step 2

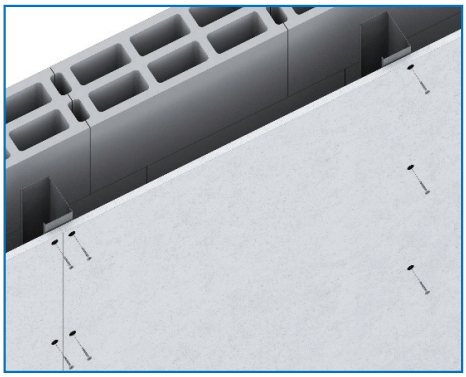
Fix the boards to the metal profiles using NIDA System screws:

- The vertical distance between them should be 300 mm maximum, the recommended distance is 250 mm;
- The distance to the edge of the board should be 10 mm;
- Fix to both upright and runner profiles, screwing from bottom to top at constant intervals.



Step 3

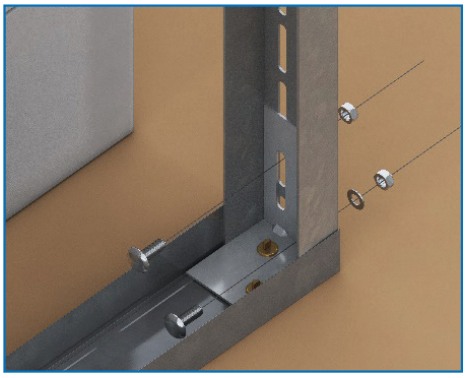
If several layers of boards are installed, the first layers of boards starting from the metal structure are installed with screws at a maximum distance of 60 cm and the last layer with screws at 25-30 cm.



Fitting the metal structure for door pre-frames

Step 1

Attach a corner bracket for the UA to the end of the UW runner profile mounted on the floor and ceiling. It is fixed by means of mechanical fasteners



Step 2

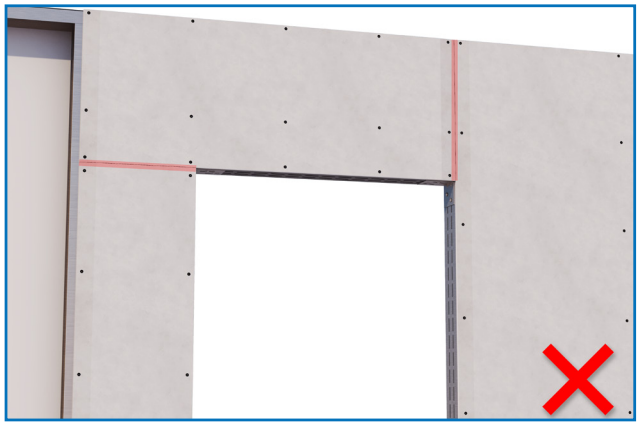
Position the UA upright profile that will form the door pre-frame and fix it to the previously mounted corners with two M8 screws, both at the bottom and top.

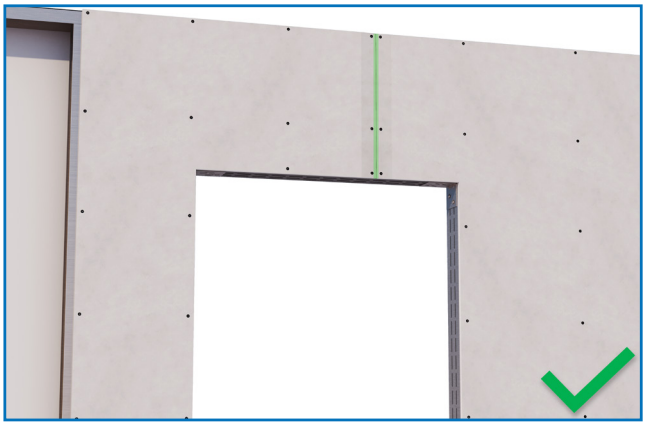
Step 3

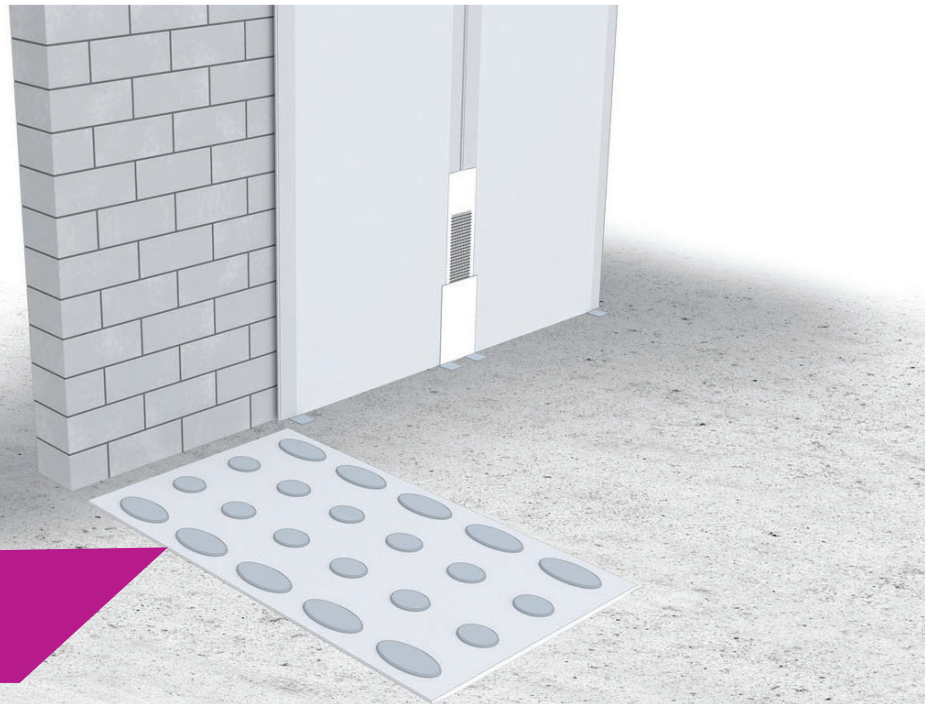
Mark on the AU uprights the position at which the horizontal profile is to be mounted at the top. Fit two UA corner brackets with one wing downwards and fix them to the upright profiles with two M8 screws each. The UA profile is to be mounted onto these two corner brackets and secured to them with two M8 screws.

Correct plasterboard lining in the doorway area

In the doorway area, in order to avoid cracks at the joints, the plasterboards should be installed in such a way that there is no horizontal or vertical joint between the boards in continuation of the doorway sides.







Bond lining Installation Guidelines

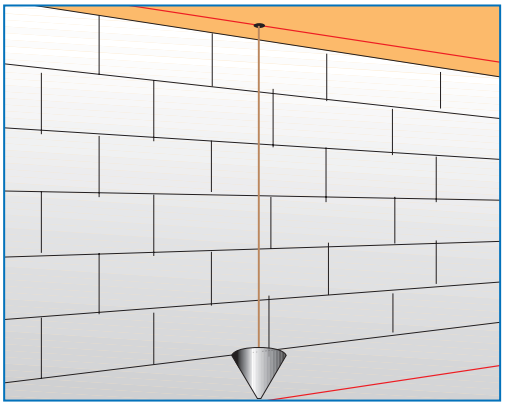
Stage 1: Mark out the lining

Step 1

Mark out the locations of the boards on the slab taking into account the thickness of the lining.

In the case of old surfaces, check the adhesion conditions by removing the existing plaster that "sounds", degreasing and washing the surfaces thoroughly.

If the surfaces are already covered with wet plaster, it is necessary to clean the entire surface or at least in the area of the bonding points.



Stage 2: Preparation of NIDA Boardfix adhesive plaster

Step 1

Pour water into a clean pot according to the dosage indicated on the NIDA Boardfix adhesive plaster bag.

Step 2

Sprinkle the adhesive plaster powder into the water (see quantities indicated on the bag).

Step 3

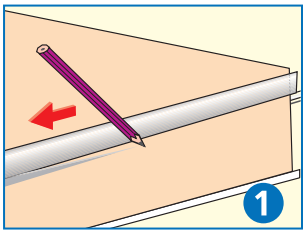
Mix until you have a homogeneous and consistent paste.

Remarks
Mixing must be done in a perfectly clean plastic or rubber pot and the water must be clean and come from, for example, the drinking water supply. The temperature of the water and the environment must be above 5°C.
NIDA Boardfix adhesive plaster should be prepared according to the instructions on the back of the bag and in the data sheet.

Stage 3: Cutting out NIDA plasterboards

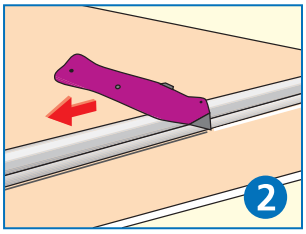
Step 1

Using the pencil and metal ruler, mark the part to be cut out.



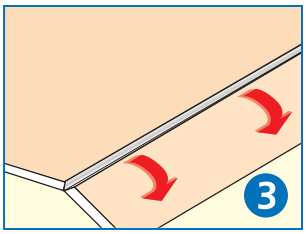
Step 2

Cut the cardboard from the face of the board with a retractable knife guided by a metal ruler.



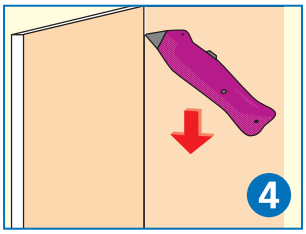
Step 3

Tear the board by applying a short stroke.



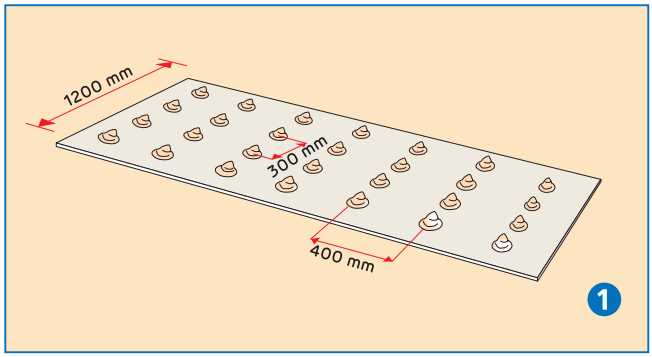
Step 4

Cut the cardboard from the other side.



Stage 4: Bonding of NIDA plasterboards

Step 1



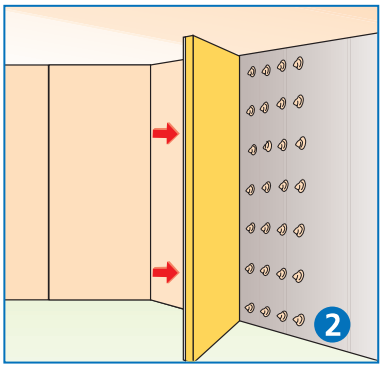
New walls

Apply the adhesive plaster as "dots on lines" on the boards 1 or directly on the walls 2 (10 dots of 100 mm/m2 ϕ diameter).

Old walls

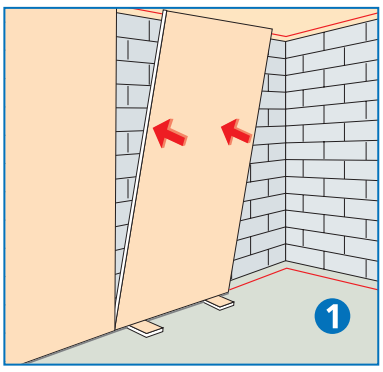
Apply the adhesive plaster to the wall after first smoothing and priming the existing wall.

NIDA Boardfix adhesive plaster consumption	
SUPPORT TYPE	kg / m^2
Raw concrete	1.50 - 2.00
Brickwork	2.00 - 2.50
Uneven renders 1÷ 2 cm	2.50 - 3.00



Stage 5: Mounting of NIDA plasterboards

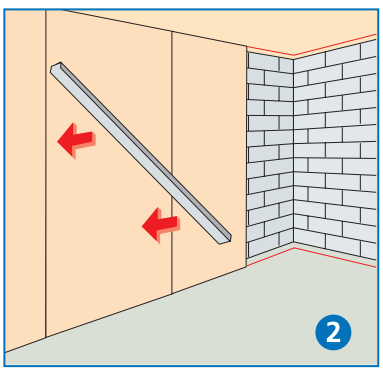
Step 1



Position 2 plasterboard strips 10 mm thick at the base of the wall and place the board vertically.

Press the board firmly against the backing wall until you reach the marks drawn previously.

Step 1



Check the flatness of the surfaces obtained by making the necessary corrections

General considerations

- The method of fixing Siniat's NIDA plasterboard system to the structure of the building, at the bottom, top and sides, will be chosen in consultation with the specialist designer of the work. The mechanical fixing (connections) will be sized taking into account the nature of the supporting material (plain concrete, reinforced concrete, screeds, metal structures, wood...), the maximum effective forces computed in accordance with the legislation in force, the load-bearing capacities of the chosen fixing elements and the mounting possibilities. In the case of fire-resistant systems, only steel fasteners should be used.
- The fixing methods shown in the Siniat documentation are for illustrative purposes only. Wrong choice of fixing methods is likely to significantly affect the performance of the plasterboard system.
- The maximum recommended heights of partitioning systems, walls, take into account a H/240 maximum allowable deformation;
- The plasterboard systems should be configured by the specialist designer who must take into account the specifics of the project (heights, location, wind pressure, fire resistance, sound insulation, etc.).
- The construction solutions presented herein are given as examples. The works will only be carried out with the agreement of the specialist designer of the works, following their adaptation to the specific characteristics of the project.
- The final construction solutions to be implemented during construction will be submitted for verification and approval to the project verifiers.
- Penetration of fire-resistant systems shall be avoided as closely as possible. Penetration means any joint or gap that passes partially or completely through the plasterboard system. If such a solution is nevertheless required, we recommend treating them with materials that meet the essential requirements of the system (fire resistance, acoustic performance...) and the project specifications. Final solutions dealing with such situations will be submitted for verification and endorsement to the project verifiers.
- NIDA Metal UW runner profiles will be fixed to the supporting structure (floor slab, floor, concrete/metal pillars/beams, roof structure, etc.) by means of fasteners arranged at 500 mm pitch (mechanical fixing) or by other mutually agreed methods in case of special details.
- For high acoustic performance we recommend filling the structural cavity of plasterboard systems with mineral wool. We recommend consulting a specialist (engineer, architect, etc.) for the implementation of technical solutions in projects.
- The structural joints of the building must also be maintained in the finishes, where the structural conformity of plasterboard systems must allow one side to slide independently of the other. The size of the joints shall be greater than the maximum deformation that may occur in the structure.
- In the case of walls longer than 15 m, vertical expansion joints should be provided at 10 m intervals.
- In case of deformations of structural elements (ceiling, columns, anchor beams, etc.) a sliding joint between the plasterboard system and the structural element should be implemented. For this detail, please refer to SINIAT Technical Assistance Department.
- The recommendations for joint treatment are a code of good practice and do not completely rule out the risk of cracking, which can be influenced by external factors such as vibration, wide temperature variations to which the plasterboard system is exposed, etc.
- The average quantities given in the documentation are indicative and represent an estimate of the system's material requirements per square metre. The loss coefficient is not included in the calculation, as it will be determined by the builder according to the specific characteristics of the work.
- The declared performances of the systems/products are obtained using only SINIAT products.
- The information should always be used by adapting the systems to the specifics of the project.
- Errors may occur in the technical documentation as a result of the editing and printing process. We strive for zero errors. We are grateful for any suggestions for improving this documentation and we look forward to hearing from you at: office@siniat.com.
- The indications contained in the presentation materials do not exempt the buyer or seller from verifying on their own responsibility the conformity of the scope of the product or system on site.
- Modifications, edits and photocopies of the documentation require SINIAT written approval and SINIAT accepts no liability for the consequences of their use.
- It is recommended that the mounting of SINIAT plasterboard systems be carried out only by specialised personnel trained by the manufacturer.
- The work safety rules must be strictly observed when setting up SINIAT plasterboard systems.
- The information presented inthis brochure is based on laboratory tests, calculations and technical estimates. Information may be changed and updated without prior notice. Check the current version by visiting **www.siniat.ro** section "Documentation".

Contact

Croatia
Bosnia and Herzegovina

Milenko Dadić - SALES MANAGER
+385 (0)99 20 28 000
milenko.dadic@etexgroup.com

Igor Jakšić - SALES REPRESENTATIVE
+385 (0)91 40 30 165
igor.jaksic@etexgroup.com

Mario Stjepanović - TECHNICAL REPRESENTATIVE
+385 (0)91 20 00 153
mario.stjepanovic@etexgroup.com

Office
Podružnica Zagreb Kovinska 4a, 10090 Zagreb,
Croatia
+385 1 3496 324
+ 385 1 3794 154
siniat.hr@etexgroup.com

Slovenia

Milenko Dadić - SALES MANAGER
+385 (0)99 20 28 000
milenko.dadic@etexgroup.com

Mohor Lotrič - SALES REPRESENTATIVE
+386 4 29 27 142
mohor.lotric@etexgroup.com

Office
Kidričeva 56b4220 Škofja Loka, Slovenia
+386 4 51 51 451
+386 4 51 51 450
siniat.si@etexgroup.com

General contact information

Romania (central)
Etex Building Performance S.A.
Str. Vulturilor 98, et. 5-6, code 030857,
Sector 3, Bucharest
+40 312 240 100
siniat.ro@etexgroup.com

siniat

Innovation for over 110 years

Present in 45 countries, the Etex Group inspires people around the world to build living spaces that are ever more safe, sustainable, smart and beautiful, using a wide spectrum of lightweight solutions.
From innovative modular systems to leading fiber cement and plasterboard systems. From high-performance applications for wall plastering and facade cladding to fire protection and building insulation.

Etex Building Performance S.A.
Str. Vulturilor nr. 98, et. 5-6
sector 3, Bucharest
Tel.: (+4) 031 224 01 00
siniat.ro@etexgroup.com

For details and solutions,
please visit
www.siniat.hr

For details and solutions,
please visit
www.siniat.si

You can also find us at

2023 edition