WELLBOND

CLADDING FIXING SYSTEM WG 50

WG 50

CLADDING FIXING SYSTEMS

- WELLBOND can be successfully applied as a decorative material for walls ,ceillings and column claddings whether for exterior or interior uses .
  wellbond systems based on a rain screen principal with provision for natural ventilation of the space between the cladding panels and the wall .

- The cladding is divided into individual panels as it will be specified in the drawing .
  Each panel is fixed on a frame with an extruded aluminum profile and fastened to a sub-structure made of aluminum extrusions . the typical horizontal joints between panels are 10mm wide .
  all joints are of open type and designed to drain the rainwater to the bottom of the cladding .

- Rainwater from horizontal cladding areas will be collected in a gutter system and drained between the cladding and the wall or drained inwards to the roof / terrace , without causing streaking to the vertical cladding surface .

- All fasteners are concealed within the panel joints. no silicone or similar sealant required .
  all fixings and joint details are designed to provide for the expected thermal expansion and contraction and to accommodate structure movements.

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- Due to outstanding rigidity ,wide colour and gloss range .wash easiness and high resistance against moisture,salts,acids and cleaning detergents wellbond is the perfect material for premises of different types; wellbond is an absolutely ecologically safe material and can be used for residential premises of all types without exception .

- In the guide we will describe only several of the popular techniques . to achieve perfect cladding with smooth surface and right angles it is necessary to compensate wall defects and tolerances . for this purposes we recommend to use fixing system.

- Making the frame with aluminum profiles can guarantee easier installation and much more long lasting life of the whole system .

FIXING :

- Fasteners , including concealed screw , nuts, bolts and other items required for connecting aluminum to aluminum or aluminum to steel are to be of galvanized steel or non-magnetic stainless steel .
- Blind rivets used for fastening WELLBOND panels to aluminum sub frame , are to be of aluminum alloy.
- All fixing anchor , brackets and similar attachments used in the fixation are to be made from aluminum , non-magnetic stainless steel ,zinc coated steel or hot dip zinc galvanized steel .
- If the reinforcement of the panel is required , an extruded aluminum profile of suitable cross-section and strength will be bonded to the reverse side of the WELLBOND panel using double sided adhesive tape «3M» . application of bonding systems are to be in strict conformity with the manufacturer`s specification . the ends of the stiffener are mechanically joined to the panel sub frame .
- Each panel is marked on the reverse side for easy identification of size and location on request .
- Finished panels are stored and transported to site in vertical position , face - to - face respectively , back - to - back , with adequate protection to prevent scratches and dents .
- The factory applied protective peel - off tape shall only be removed after the panels have been installed on site .

EXTERIOR INSTALLATION

- ☆ Panels are to be stored on site in vertical position , face - to -face respectively back -to-back ,with adequate protection to prevent scratches and dents .

- ☆ Any component parts, which are observed to be defective in any way,including wraped,bowed,dented,and broken member,must not be installed . members or parts,which have been damaged during installation or there after or before the time of final acceptance are removed and replaced .

- ☆ No cutting , trimming , welding or brazing of component parts during fixation in any manner which would damage the finish , decrease the strength or result in visual imperfection or failure in performance are executed during erection . component parts,which require alteration , will be returned to shop for fabrication , if necessary replaced with new parts .

- ☆ Anchorage of the cladding structure to the building structure shall be by approved methods in strict accordance to the specification and approved shop and fixation drawing . supporting brackets are so designed as to provide three - dimensional adjustments and accurate location of cladding components .

- ☆ All components parts are installed level, true to line with uniform joints and reveals .

- ☆ Maximum deviation for vertical member : 3 mm max .in a 6 m run and 5mm max.in a 12m run.

- ☆ Maximum deviation for horizontal members : 3mm max in an 12 m run

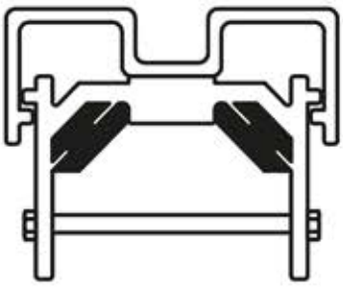
- ☆ Maximum offset from true alignment between the abutting members shall not exceed 1.0mm

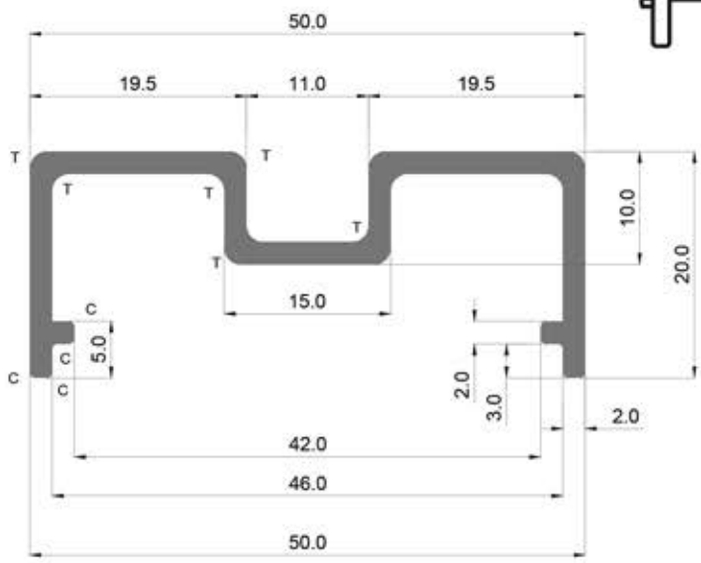
- ☆ The tolerance of the width of the joints between two panels in maximum + 2mm.

- ☆ Cladding panels are to be left protected by the factory applied peel -off tape as long as possible . under no cricustances the peel off tape on indivdual panels is to be partially removed and left exposed to weathering .

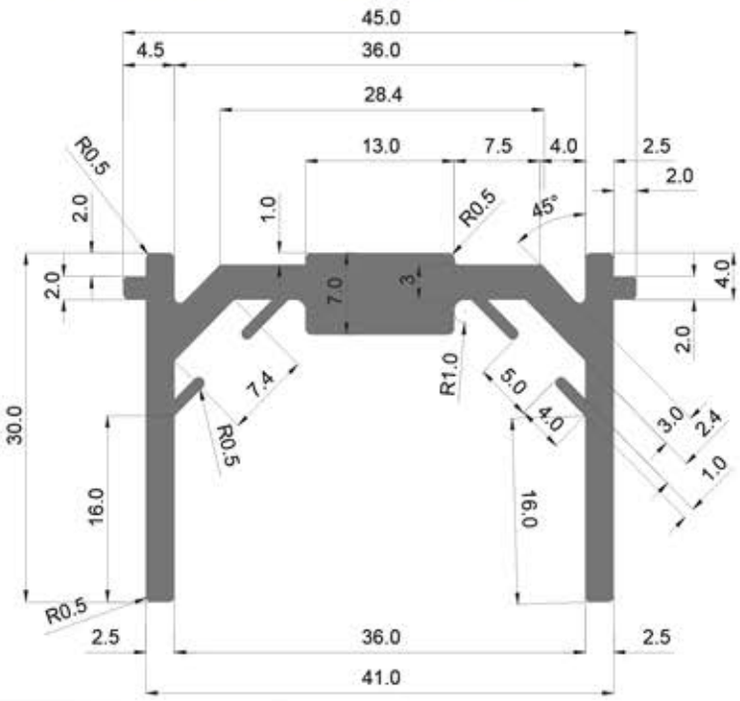
- ☆ Before handing over of the completed cladding all peel off tape will be removed.

Profile W5046

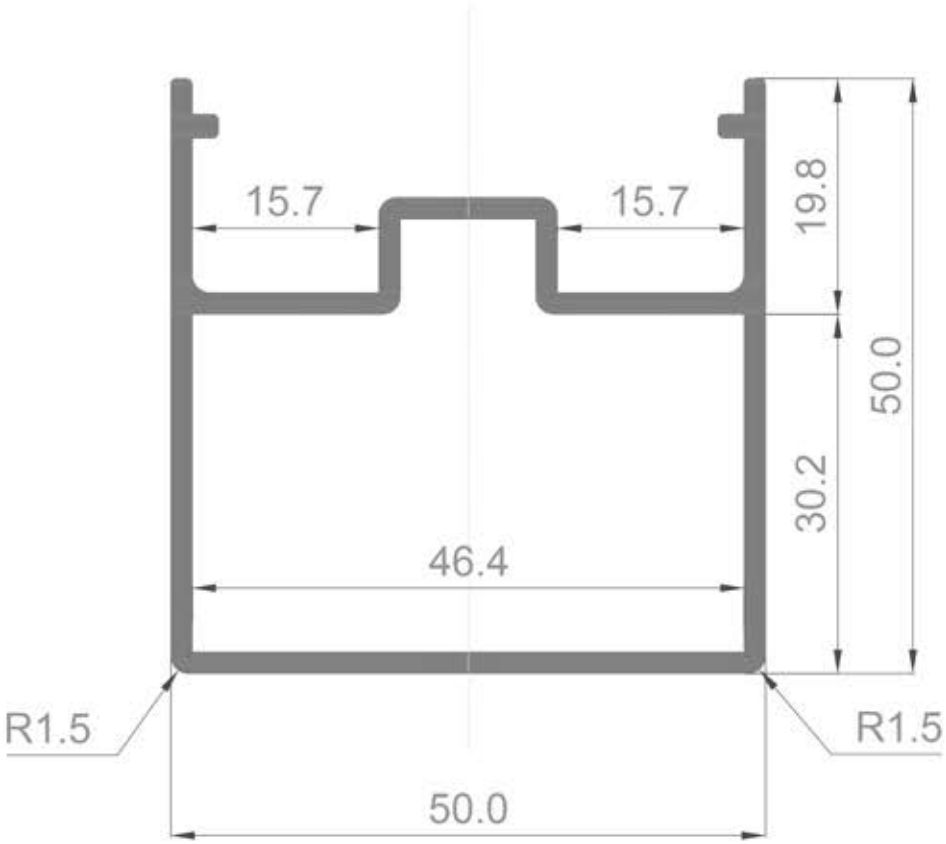




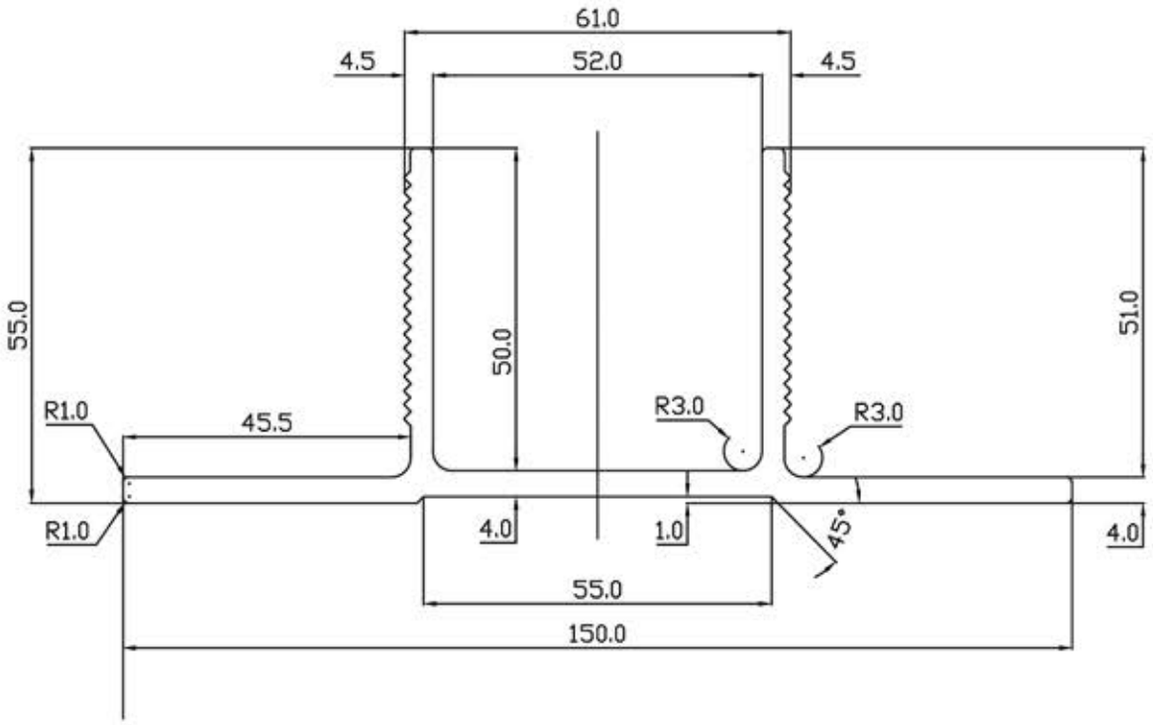
Profile W5049

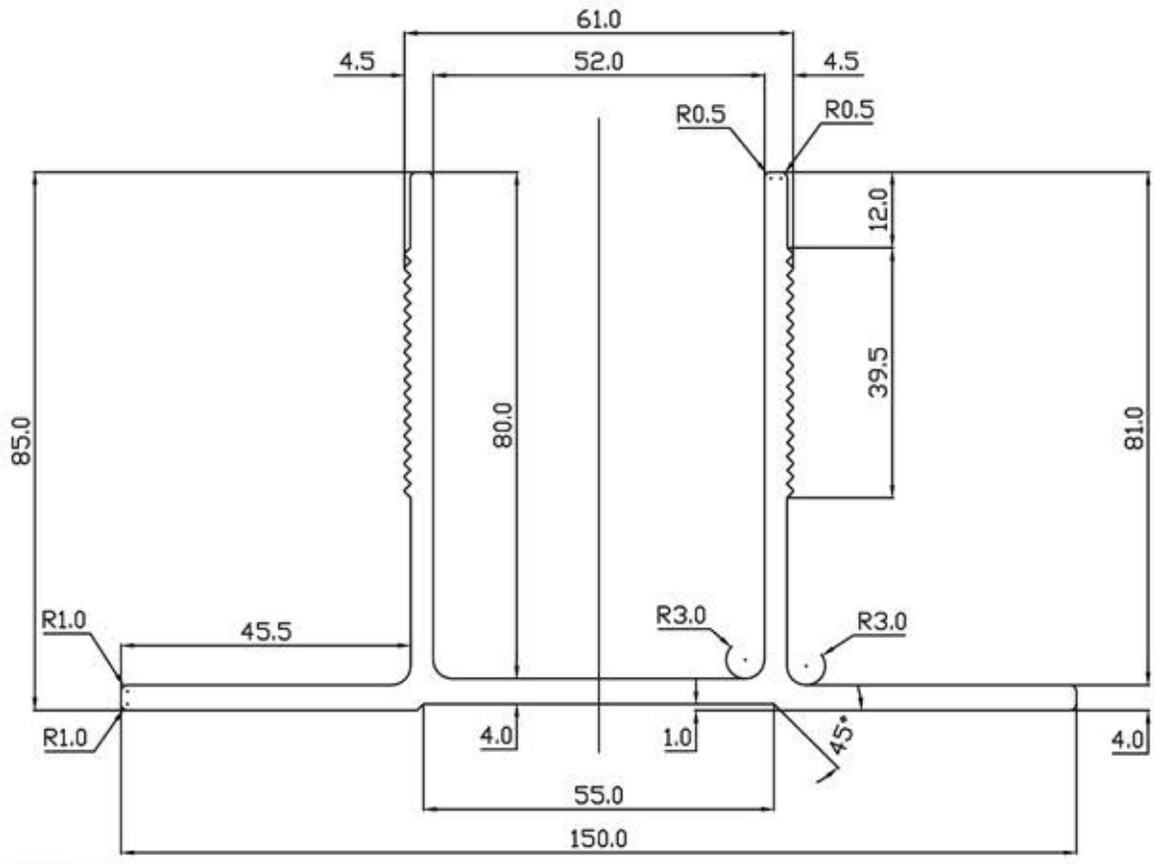


Profile 5050



WELLBOND WALL BRACKETS

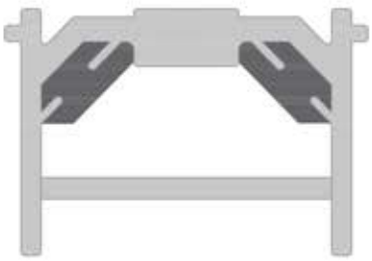




- All aluminum profiles for exterior fixing systems are produced of aluminum alloy 6063T6.
- Standard length is 6 m .
- Other lengths can be also produced for special requests .

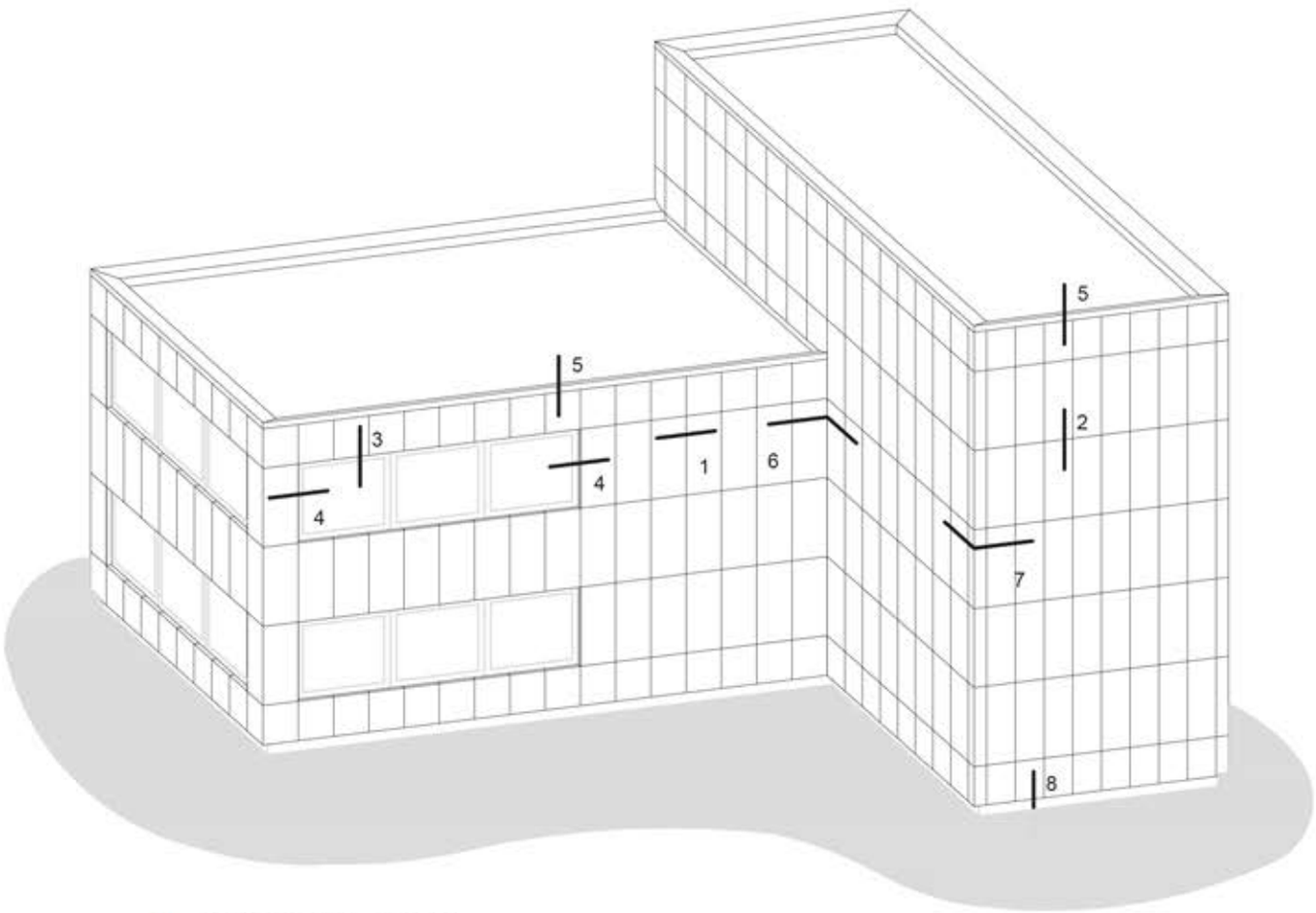
PROFILE INDEX

WG5050 BOX TYPE RUNNER PROFILE



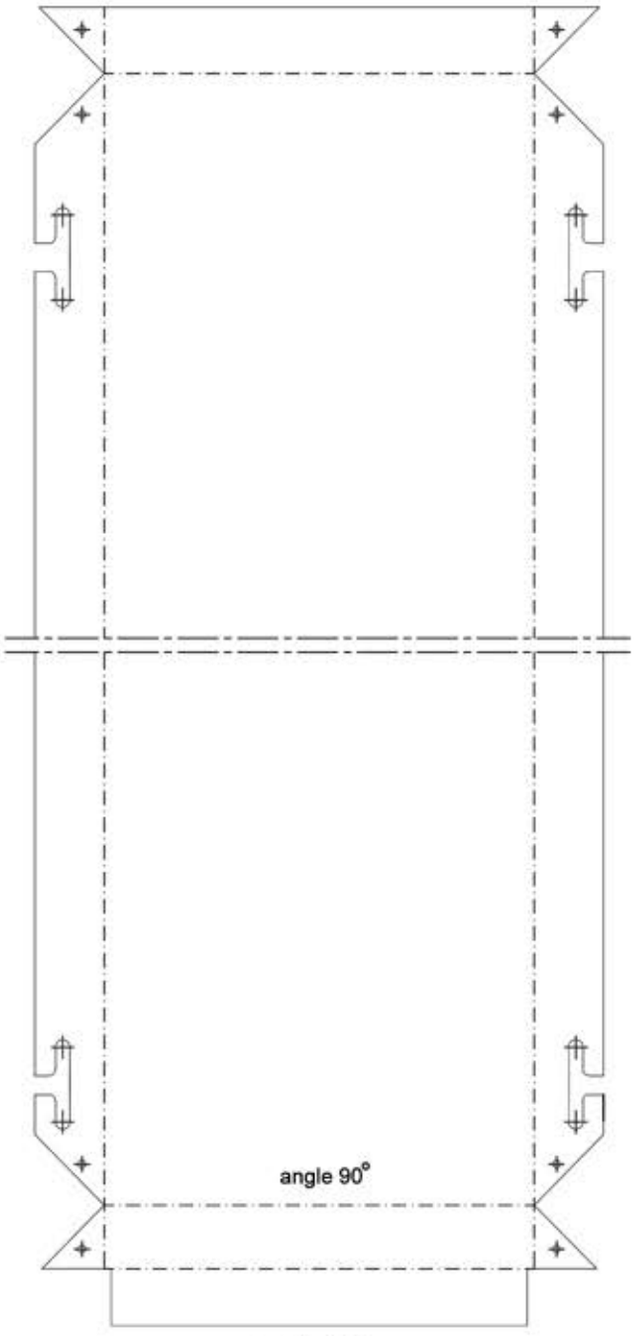
WG5049 DOUBLE CLIP-IN PROFILE

WG5046 BOX TYPE RUNNER PROFILE

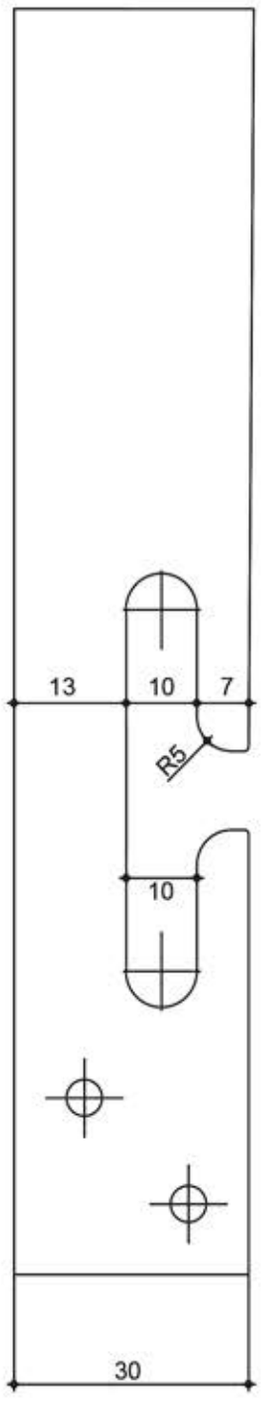


1. Vertical joint
2. Horizontal joint
3. Window head/Sill
4. Window side
5. Parapet return
6. Corner segment / inner corner
7. Corner segment / outer corner
8. Lower cladding detail

Cladding Fixing System WG 50



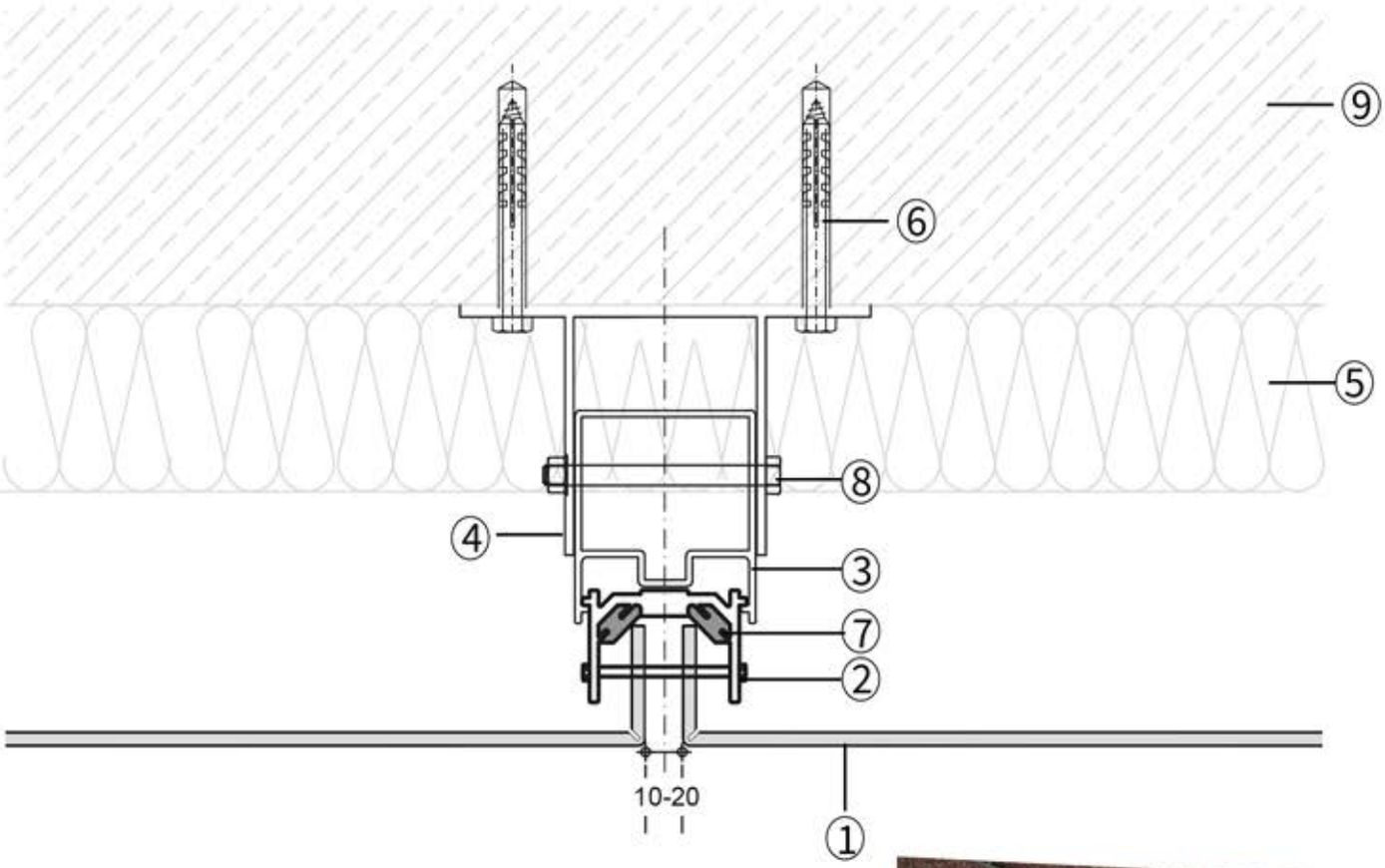
scale 1:5



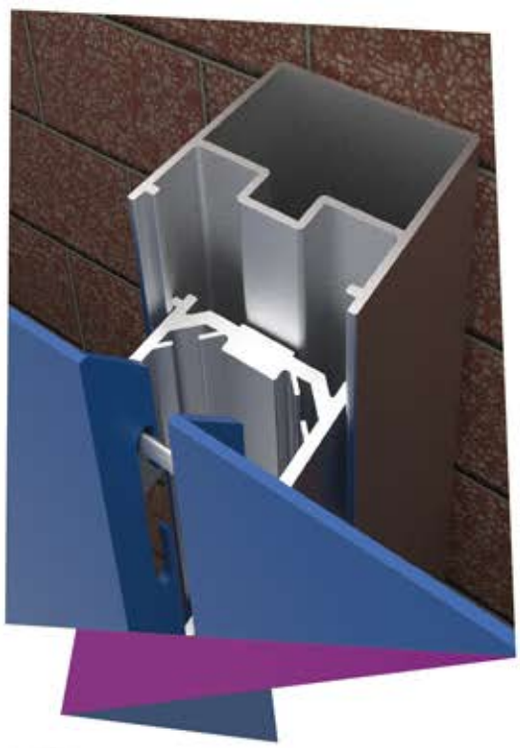
scale 1:2

CLADDING CUTTING DETAIL

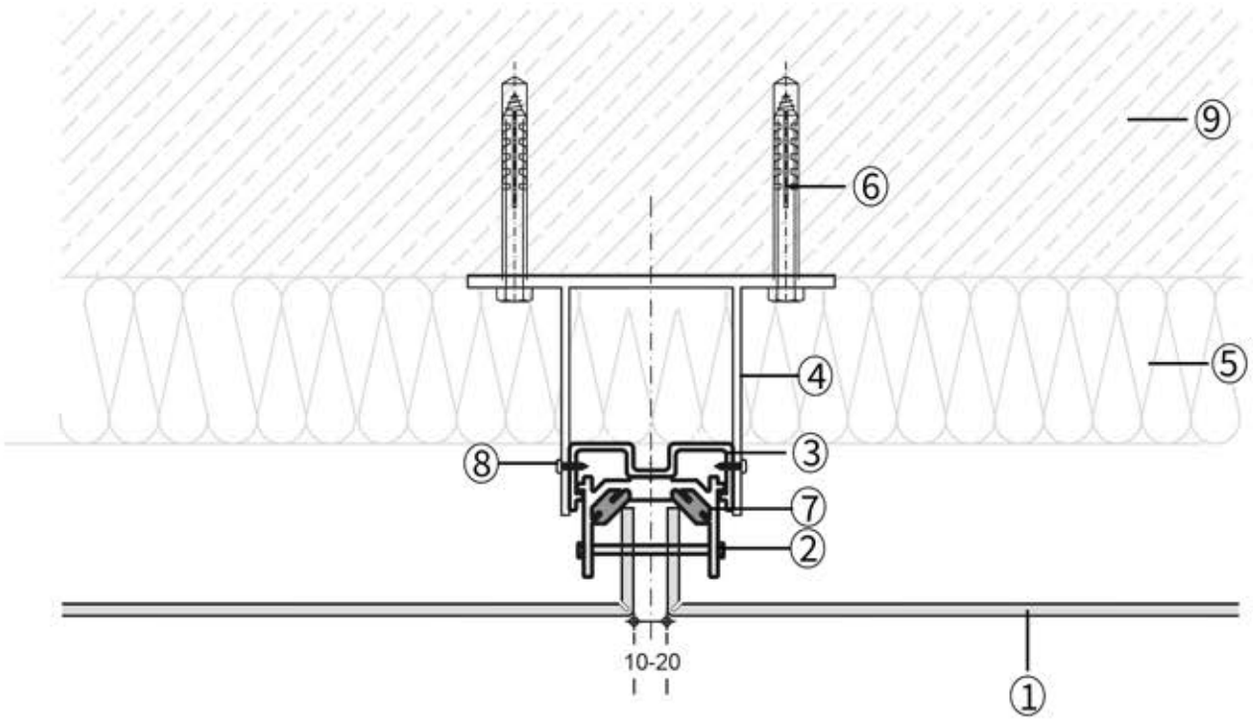
Description : vertical joint section (1)



1. Wellbond aluminum composite panel
2. Aluminum profile W 5049 hanging profile
3. W5050 runner profile
4. Wellbond wall bracket
5. Rock wool insulation
6. Anchor bolt
7. Rubber
8. Bolt and Nut
9. Wall

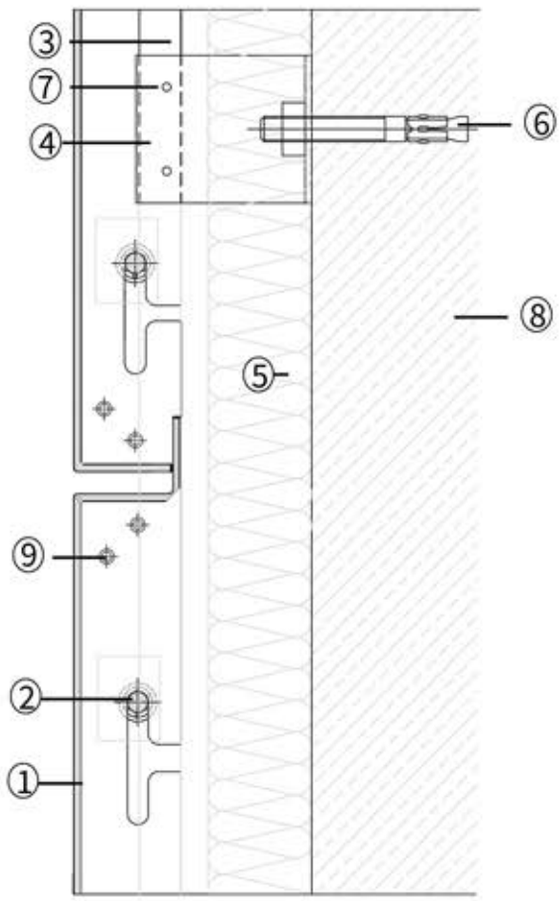


DESCRIPTION : VERTICAL JOINT SECTION (1)



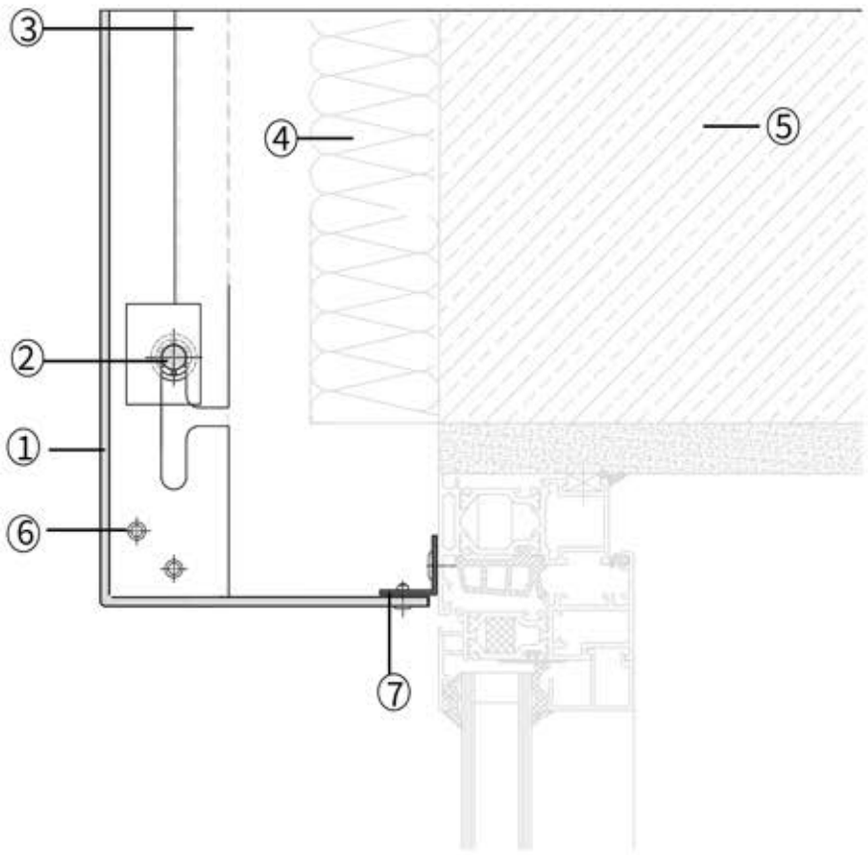
1. WELLBOND ALUMINUM COMPOSITE PANEL
2. ALUMINUM PROFILE W 5049 HANGING PROFILE
3. W5046 RUNNER PROFILE
4. WELLBOND WALL BRACKET
5. ROCK WOOL INSULATION
6. ANCHOR BOLT
7. RUBBER
8. SCREW
9. WALL

Description: Horizontal joint section (2)



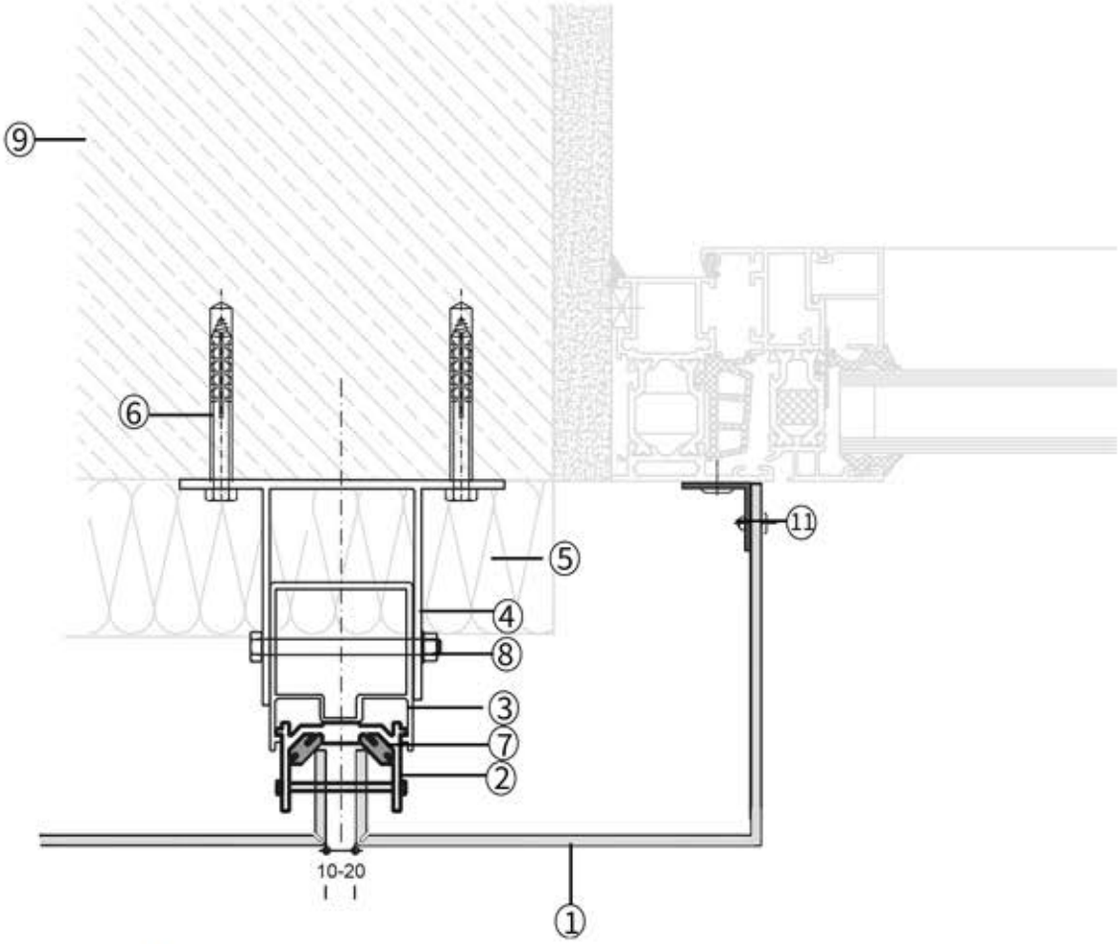
1. Wellbond aluminum composite panel
2. Aluminum profile W 5049 hanging profile
3. W5050 runner profile
4. Wellbond wall bracket
5. Rock wool insulation
6. Anchor bolt
7. Screw
8. Wall
9. Cladding rivite

Description: Window head/sill section (3)



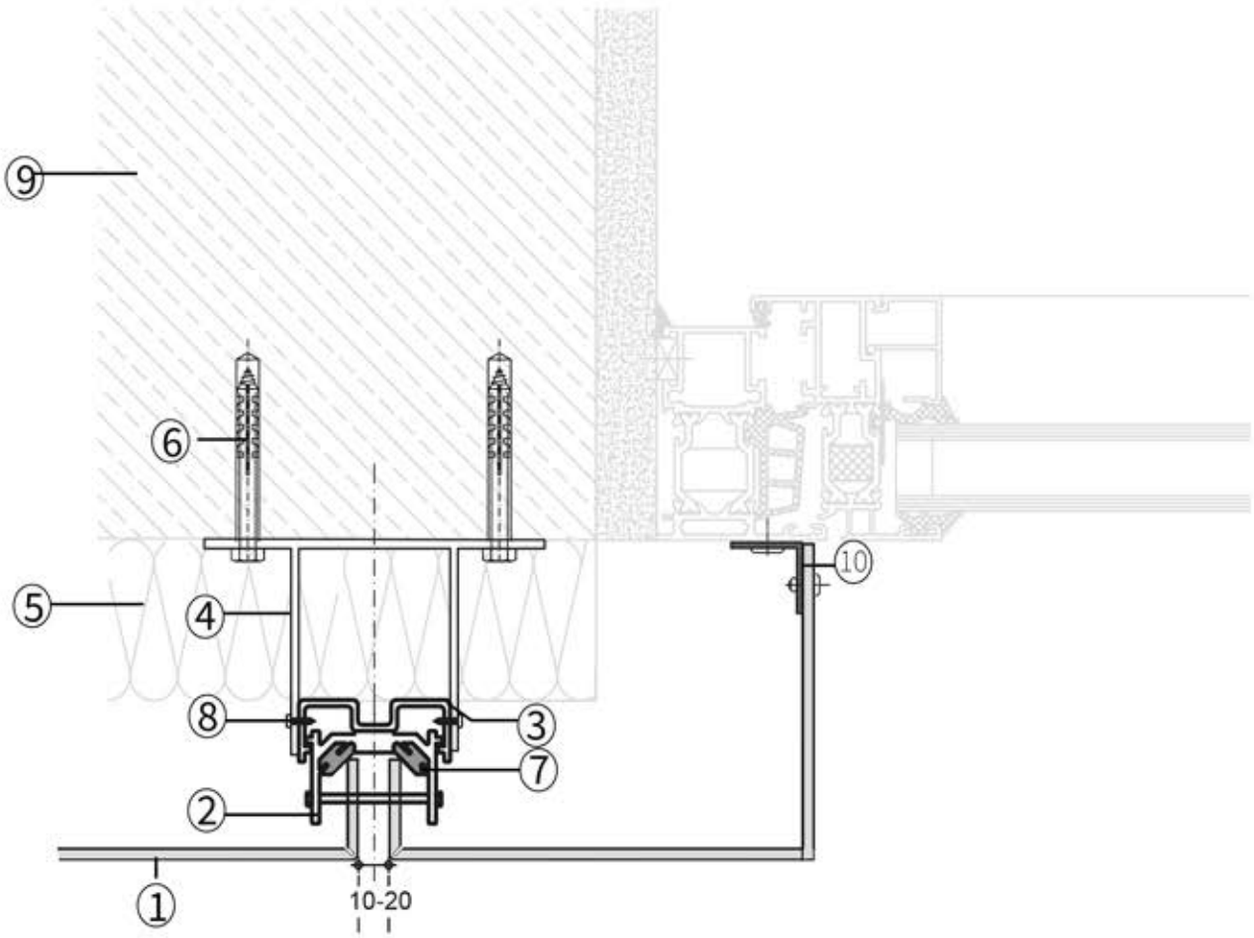
1. Wellbond aluminum composite panel
2. Aluminum profile W 5049 hanging profile
3. W5050 runner profile
4. Rock wool isulation
5. Wall
6. Cladding rivite
7. Aluminuim L 20*20

Description: Window side section (4)



1. Wellbond aluminum composite panel
2. Aluminum profile W 5049hanging profile
3. W5050 runner profile
4. Wellbond wall bracket
5. Rock wool isulation
6. Anchor bolt
7. Rubber
8. Bolt and Nut
9. Wall
10. Cladding rivite
11. Aluminum L 20*20

DESCRIPTION: WINDOW SIDE SECTION (4)



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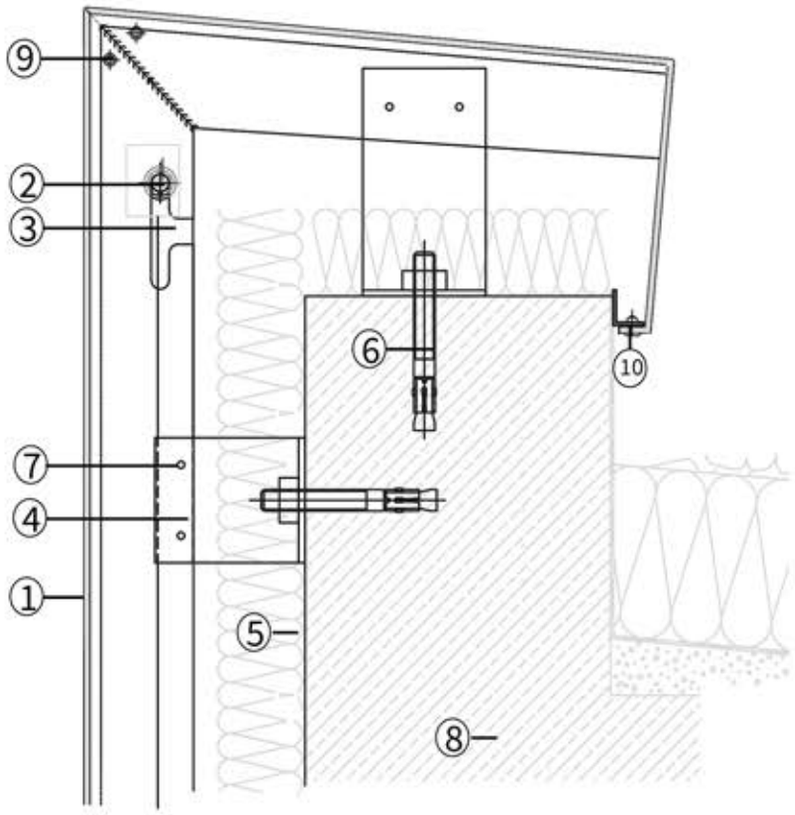
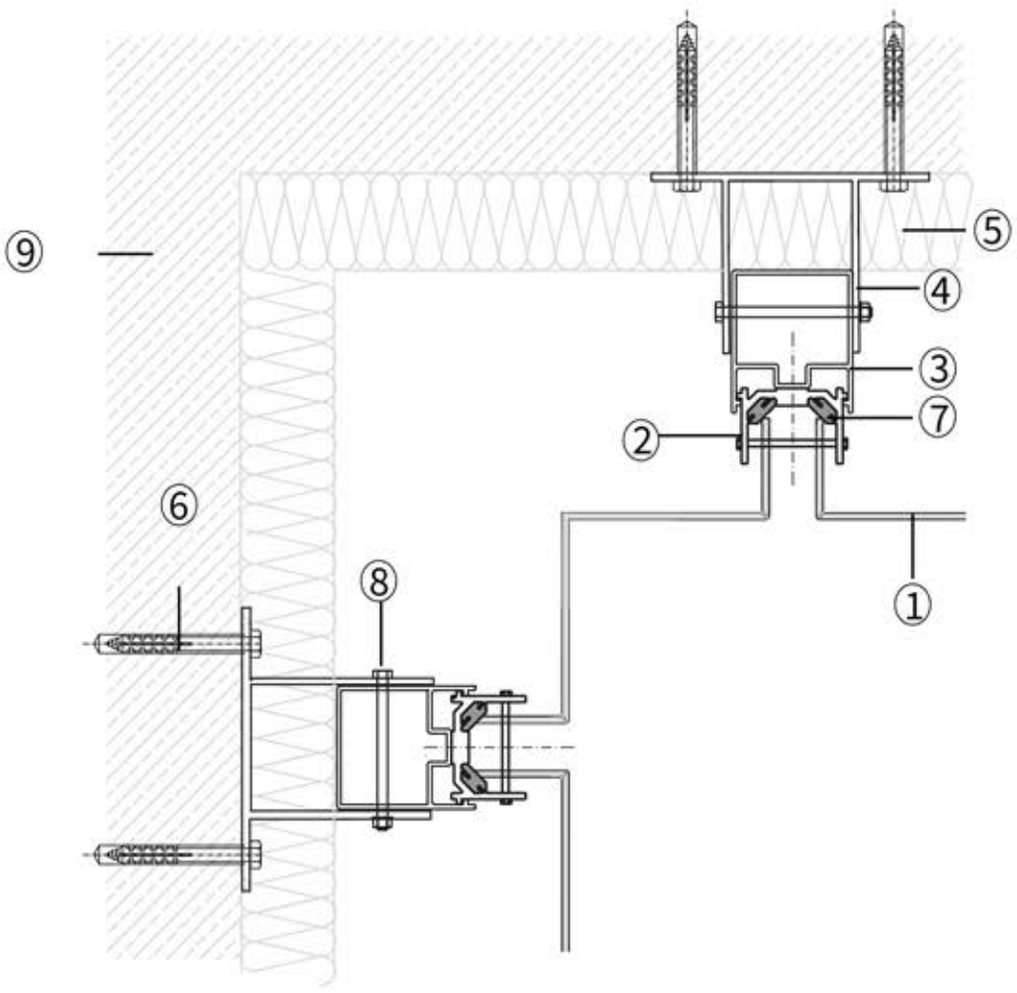
2. ALUMINUM PROFILE W 5049 HANGING PROFILE
3. W5050 RUNNER PROFILE
4. WELLBOND WALL BRACKET
5. ROCK WOOL ISULATION
6. ANCHOR BOLT
7. RUBBER
8. SCREW
9. WALL
10. ALUMINUM L 20*20

Description: parapet return section (5)



1. Wellbond aluminum composite panel
2. Aluminum profile W 5049 hanging profile
3. W5050 runner profile
4. Wellbond wall bracket
5. Rock wool isulation
6. Anchor bolt
7. Screw
8. Wall
9. Cladding rivite
10. Aluminum L 20*20

DESCRIPTION:CORNER SEGMENT / INNER CORNER SECTION (6)



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4. WELLBOND WALL BRACKET
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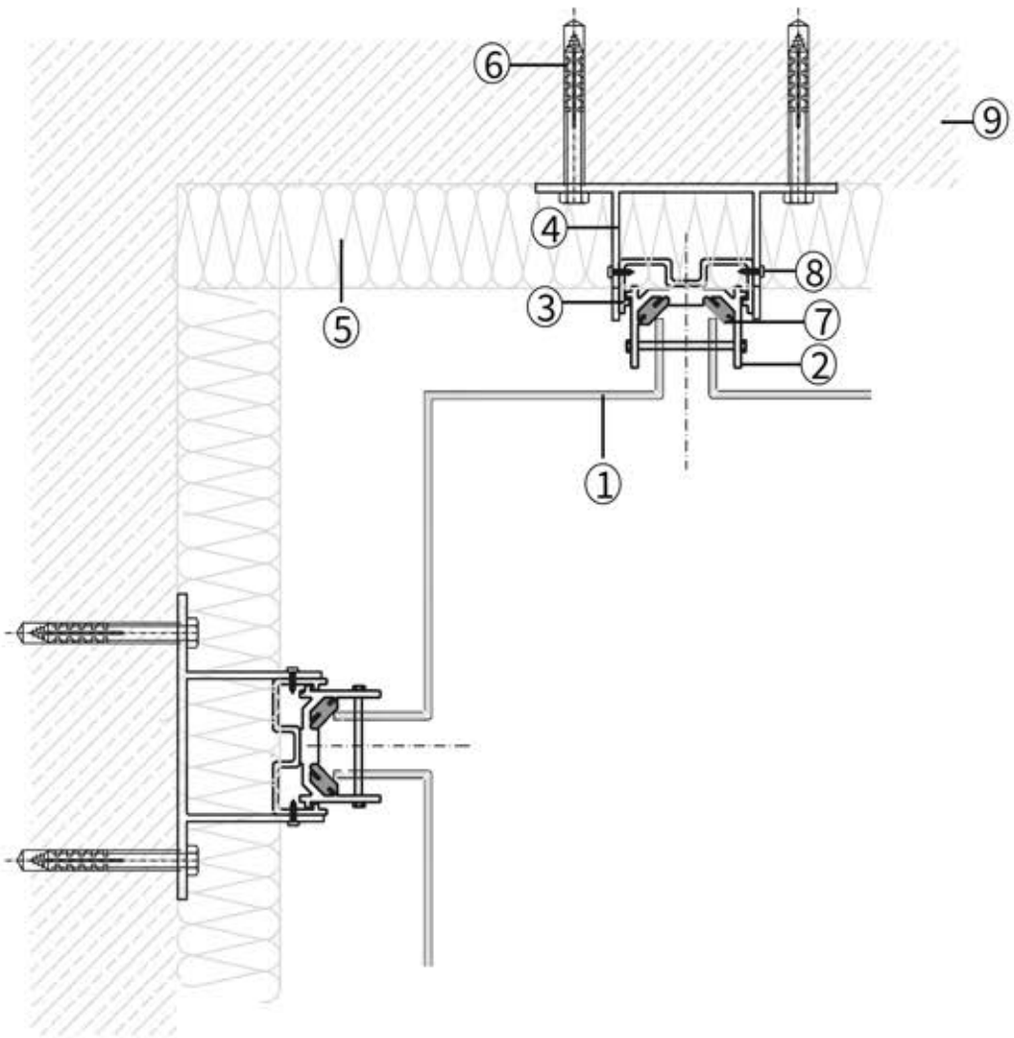
6. ANCHOR BOLT
7. RUBBER
8. BOLT AND NUT
9. WALL

DESCRIPTION:CORNER SEGMENT / INNER CORNER SECTION (6)



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3. W5050 RUNNER PROFILE
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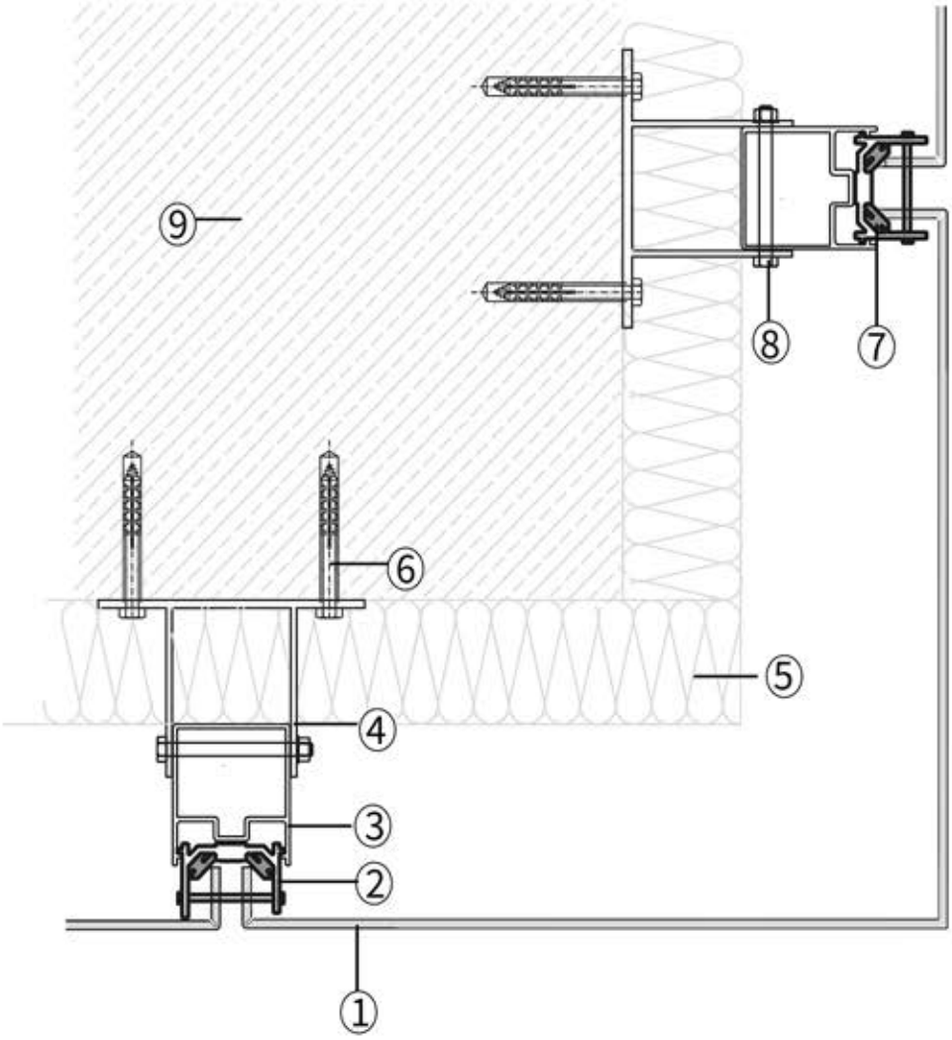
5. ROCK WOOL ISULATION
6. ANCHOR BOLT
7. RUBBER
8. SCREW
9. WALL

DESCRIPTION: CORNER SEGMENT /OUTER CORNER SECTION (7)



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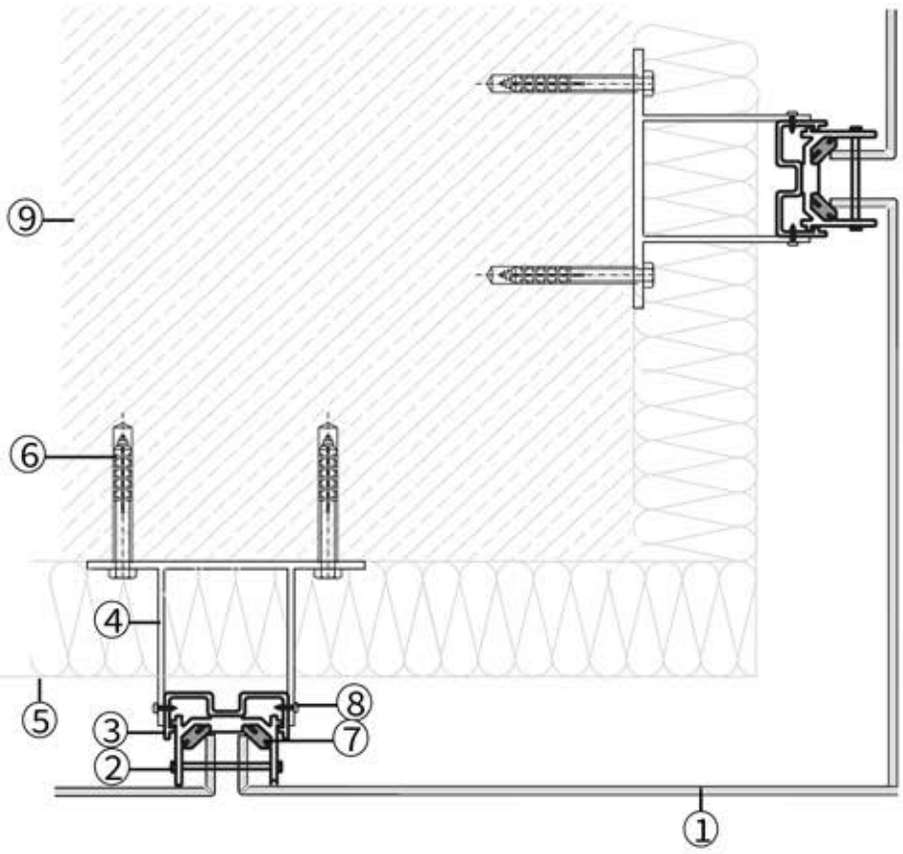
6. ANCHOR BOLT
7. RUBBER
8. BOLT AND NUT
9. WALL

DESCRIPTION: CORNER SEGMENT /OUTER CORNER SECTION (7)



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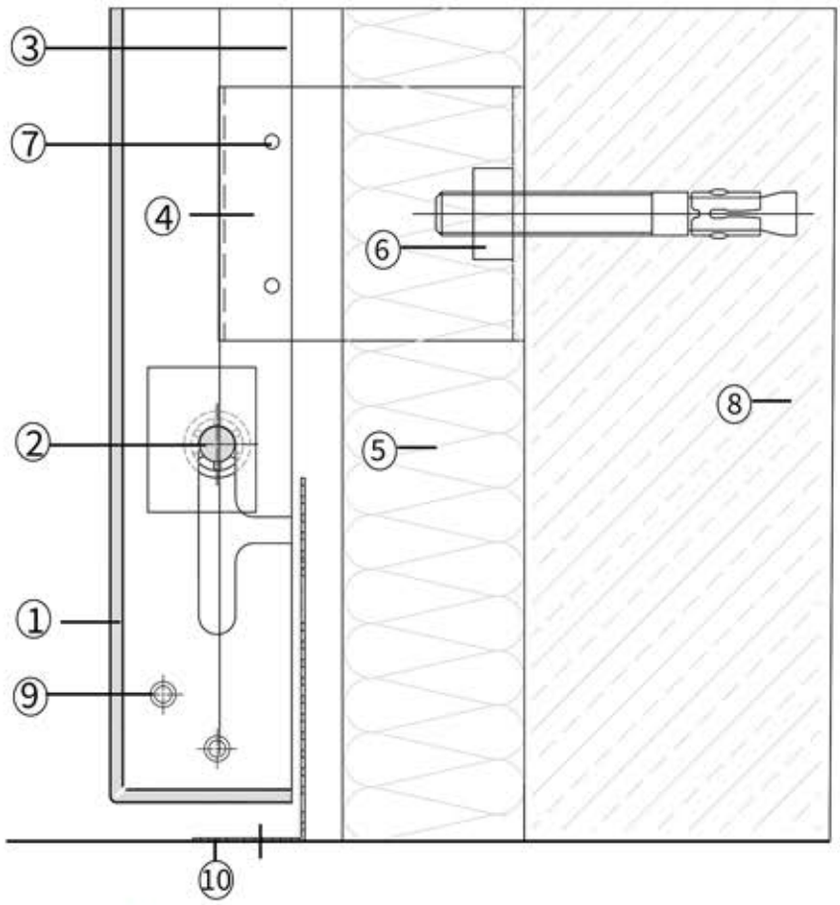
6. ANCHOR BOLT
7. RUBBER
8. SCREW
9. WALL

Description: Lower cladding head section (8)



1. Wellbond aluminum composite panel
2. Aluminum profile W 5049 hanging profile
3. W5050 runner profile
4. Wellbond wall bracket
5. Rock wall isulation
6. Anchor bolt
7. Screw
8. Wall
9. Cladding rivite
10. Aluminum flashing