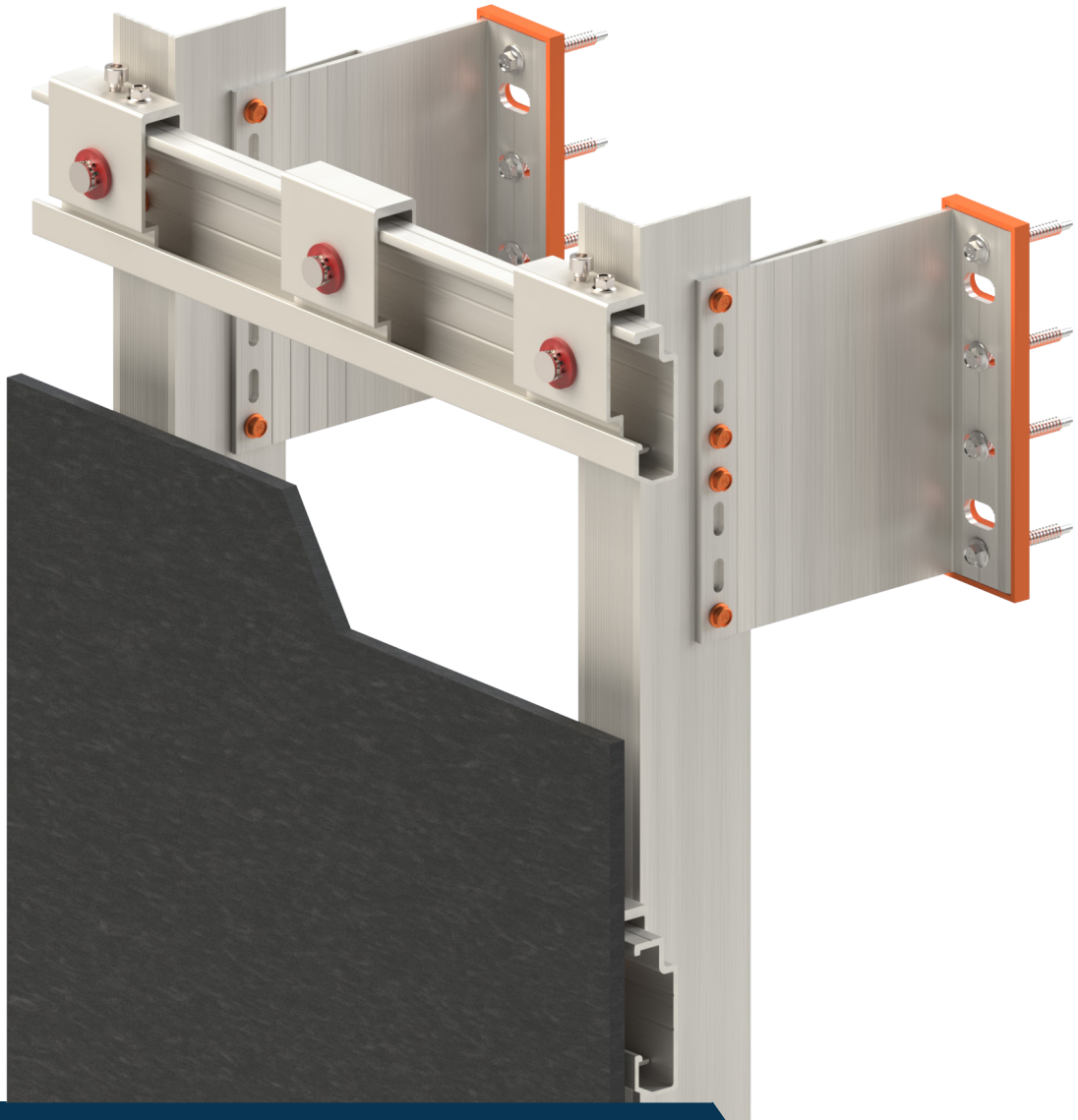
RJ Facades



Secret Fix-1
Technical section

Secret Fix-1

Undercut Anchor System, SF horizontal rail system and SF1 hanger clasps to support light to medium weight facades. Secret Fix-1 is designed for invisible mounting of thin and smooth facade materials.

System accessories and designed profiles allow secure mounting of HP, fibre cement, ceramics, and stone less than 25mm thickness.

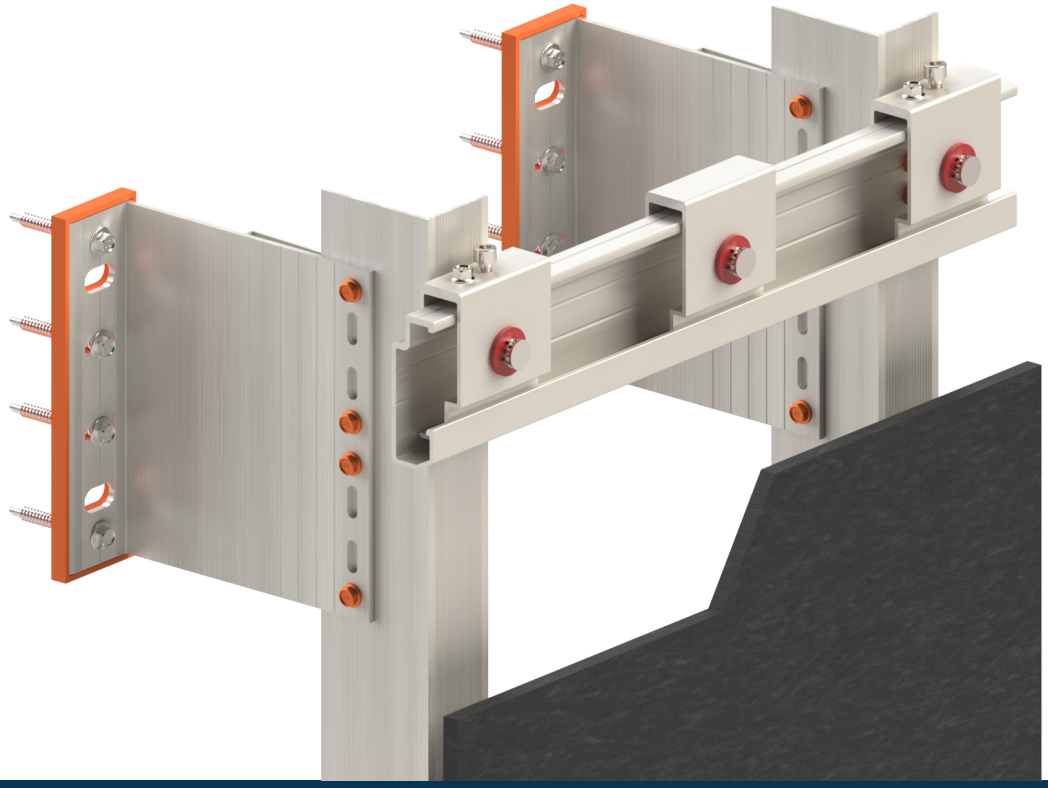
Secret Fix-1 System uses fixing anchors to guarantee the connections between the facade material and the main profiles of the system.

Main advantages:

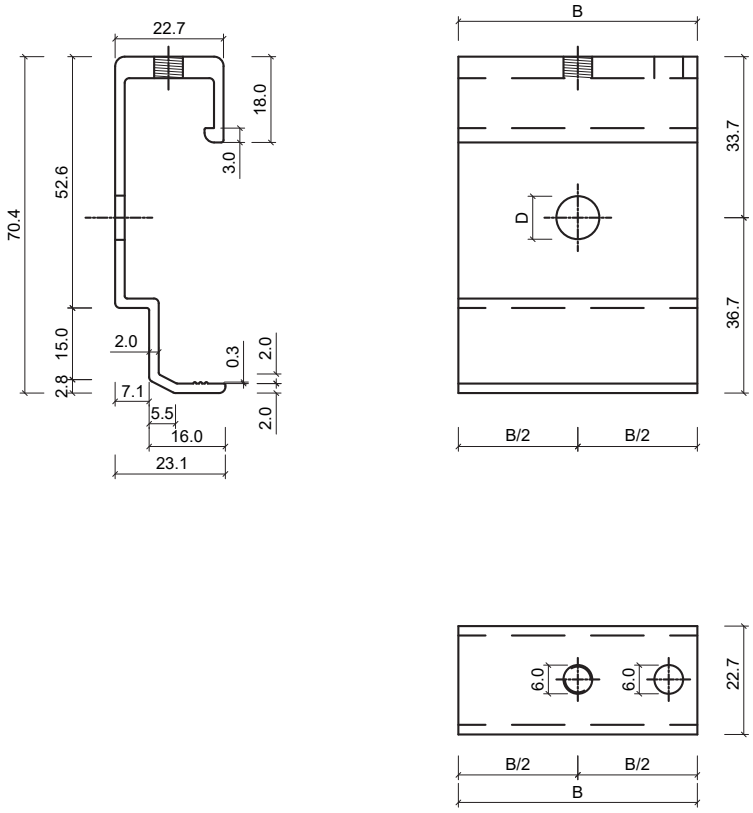
- SF1 clasps designed to 'help' the connection to the SF horizontal profile.
- Perfect vision of the facade with no visible holding elements.
- Large variety of sizes and designs of the facade materials.
- Highest level of security when fixing the tiles, due to the undercut anchors.
- Possibility to use facade materials with thickness ranging from 8mm to 25mm.
- Fast and easy installation compared to other secret fix systems.
- Secure and fully engineered work, which covers the entire project, and guarantees a complete system solution Cladding Materials.

Typical Cladding Materials

- Ceramic Tiles; Glass; High Pressure Laminates (HPL); Fibre Cement; Stone; Technical Stone; Composite Mineral Material; Glass Fiber Reinforced Concrete GFRC; GREP; Light Transmitting Concrete.



Secret Fix-1 - Aluminium, Fixed Point Clasp

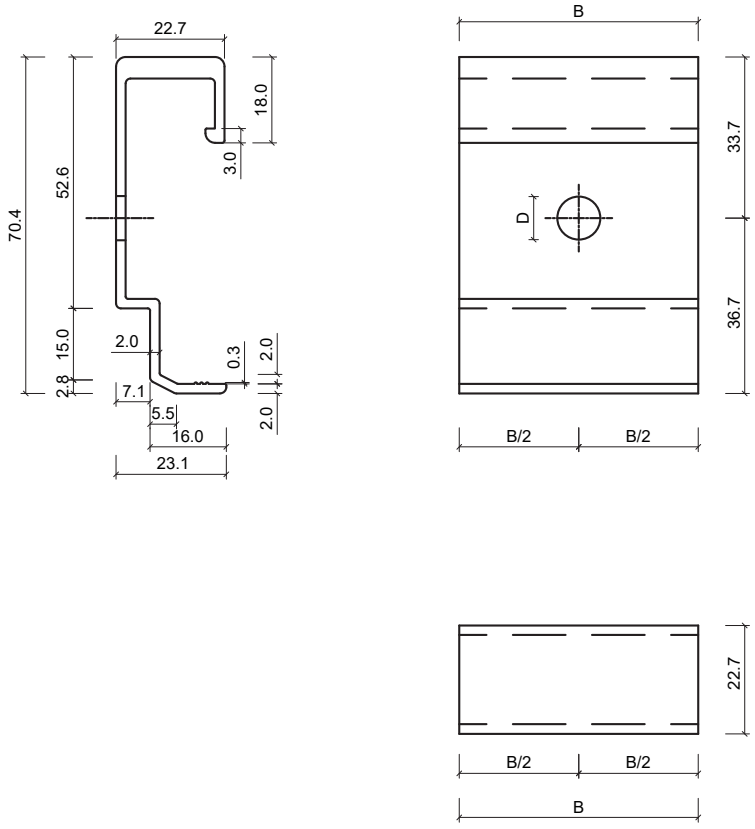


Item	Material
SF1 Clasp	Aluminum - EN AW 6063 T6

B	D	Fixing Configuration
40 mm 50 mm 80 mm	10.7	Hex
	10.3	Square
	6.6	M6
	9.0	M8

All measurements in mm*

Secret Fix-1 - Aluminium, Sliding Point Clasp

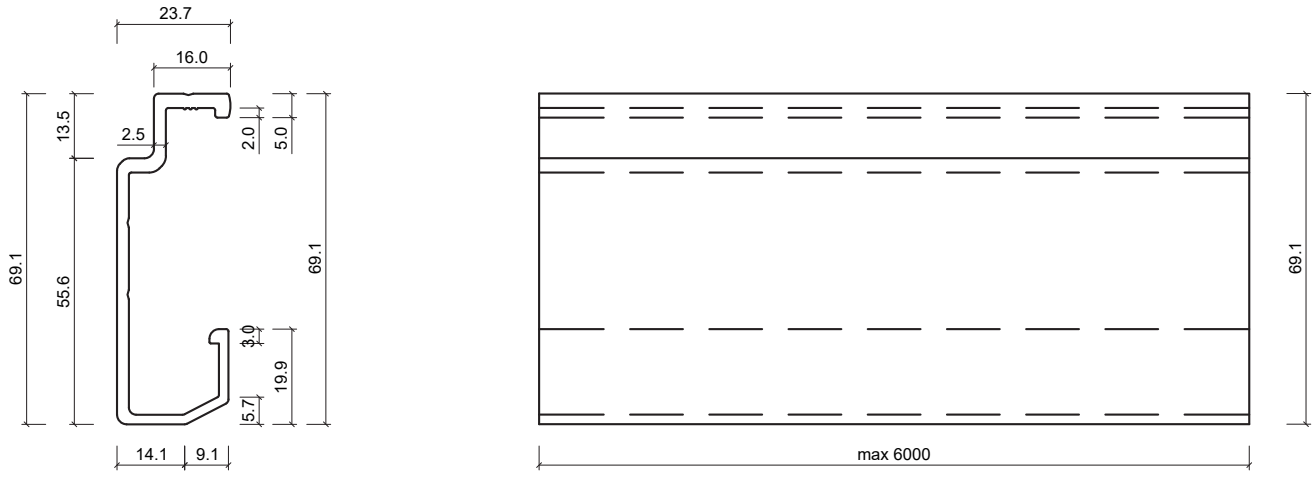


Item	Material
SF1 Clasp	Aluminum - EN AW 6063 T6

B	D	Fixing Configuration
40 mm	10.7	Hex
	10.3	Square
50 mm	6.6	M6
80 mm	9.0	M8

All measurements in mm*

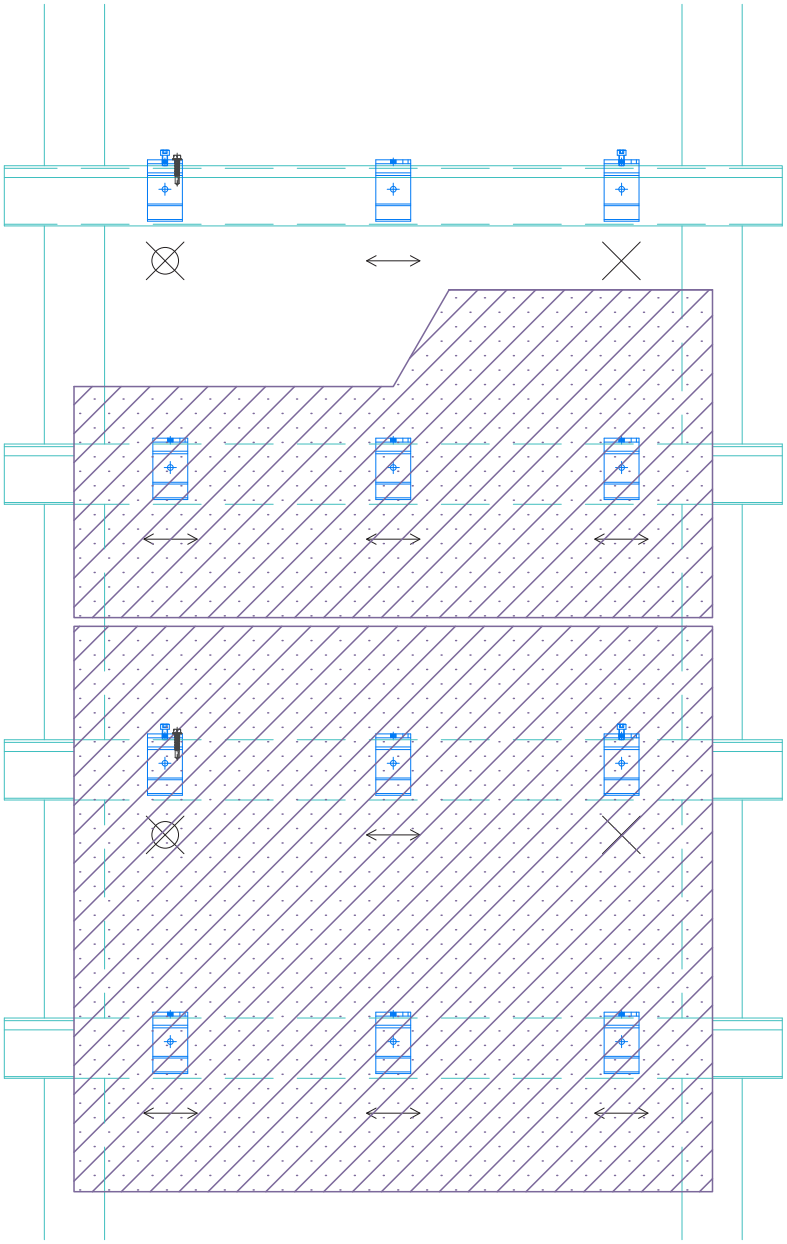
Secret Fix - Aluminium, Horizontal Support Rail



Item	Material
Secret Fix Rail	Aluminum - EN AW 6063 T6

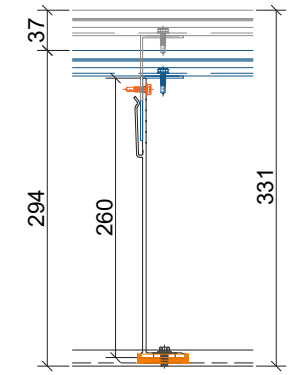
All measurements in mm*

Secret Fix - Clasp Positioning

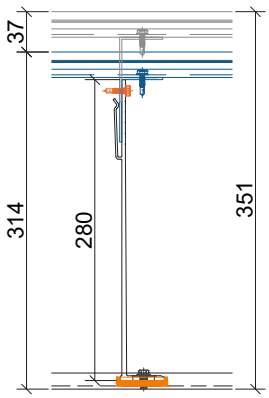


⊗	Secured fixed point (Secured to horizontal profile with JT4-6-5.5 x 30)
×	Fixed point
⟷	Sliding point

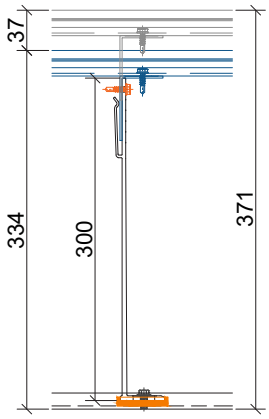
Secret Fix - Cladding Zone



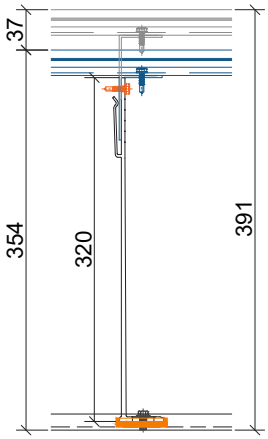
260 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 294mm to 331mm



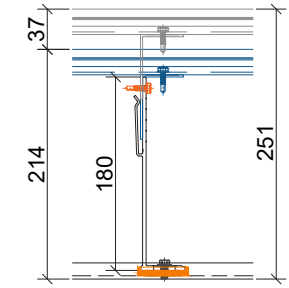
280 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 314mm to 351mm



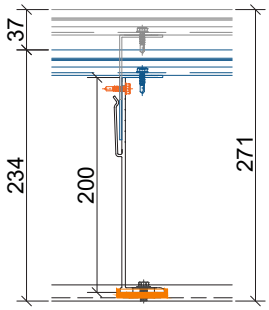
300 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 334mm to 371mm



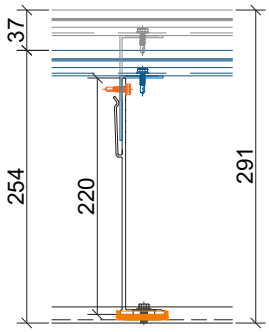
320 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 354mm to 391mm



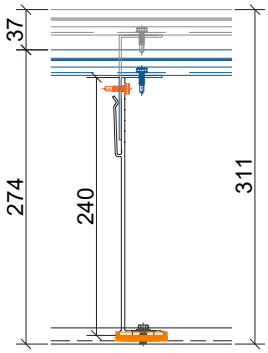
180 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 214mm to 251mm



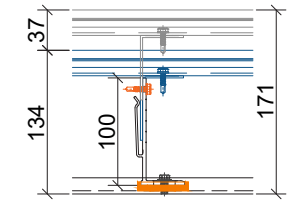
200 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 234mm to 271mm



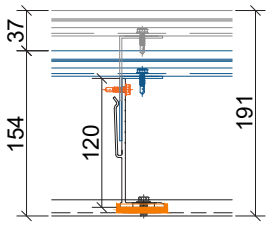
220 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 254mm to 291mm



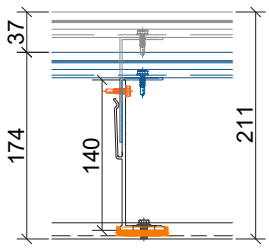
240 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 274mm to 311mm



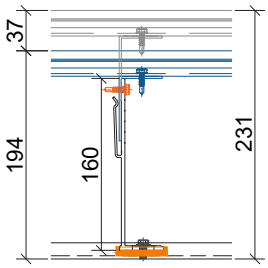
100 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 134mm to 171mm



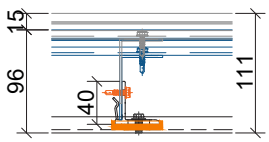
120 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 154mm to 191mm



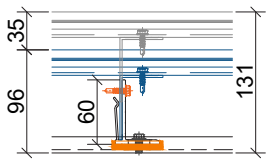
140 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 174mm to 211mm



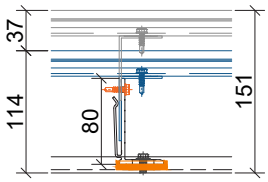
160 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 194mm to 231mm



40 Bracket
ADJUSTMENT= +/− 15mm
Clad Zone= 96mm to 111mm

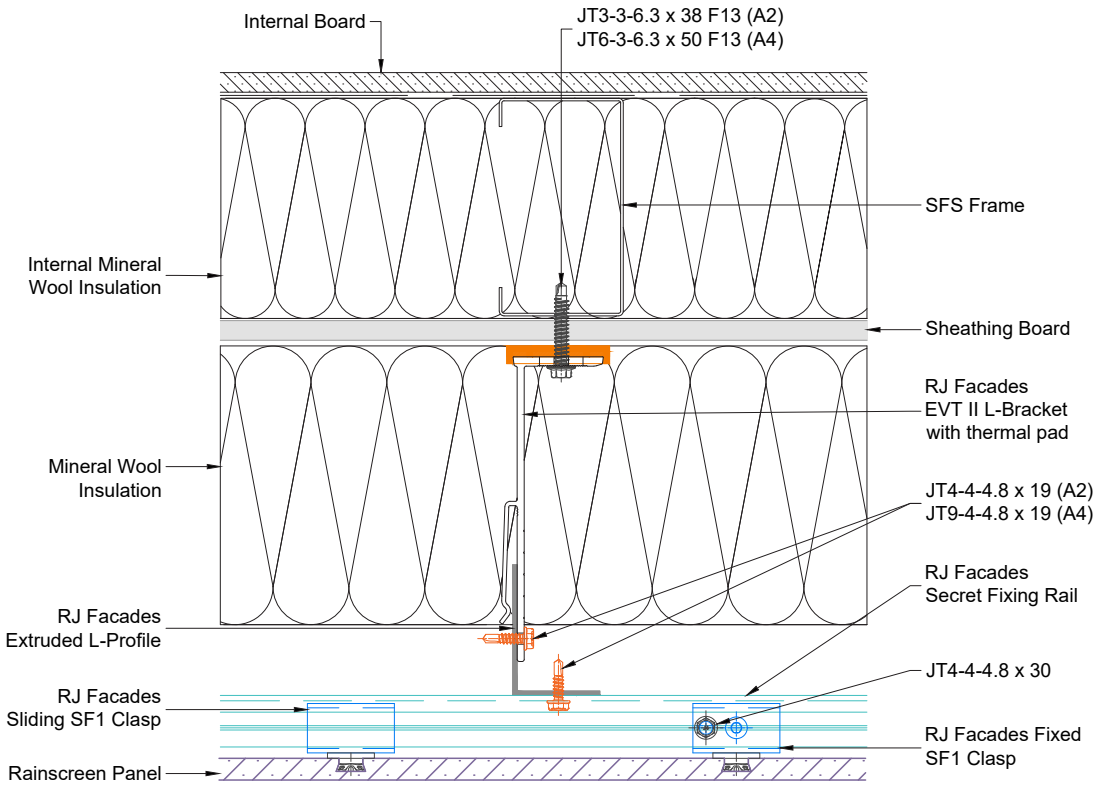


60 Bracket
ADJUSTMENT= +/− 35mm
Clad Zone= 96mm to 131mm

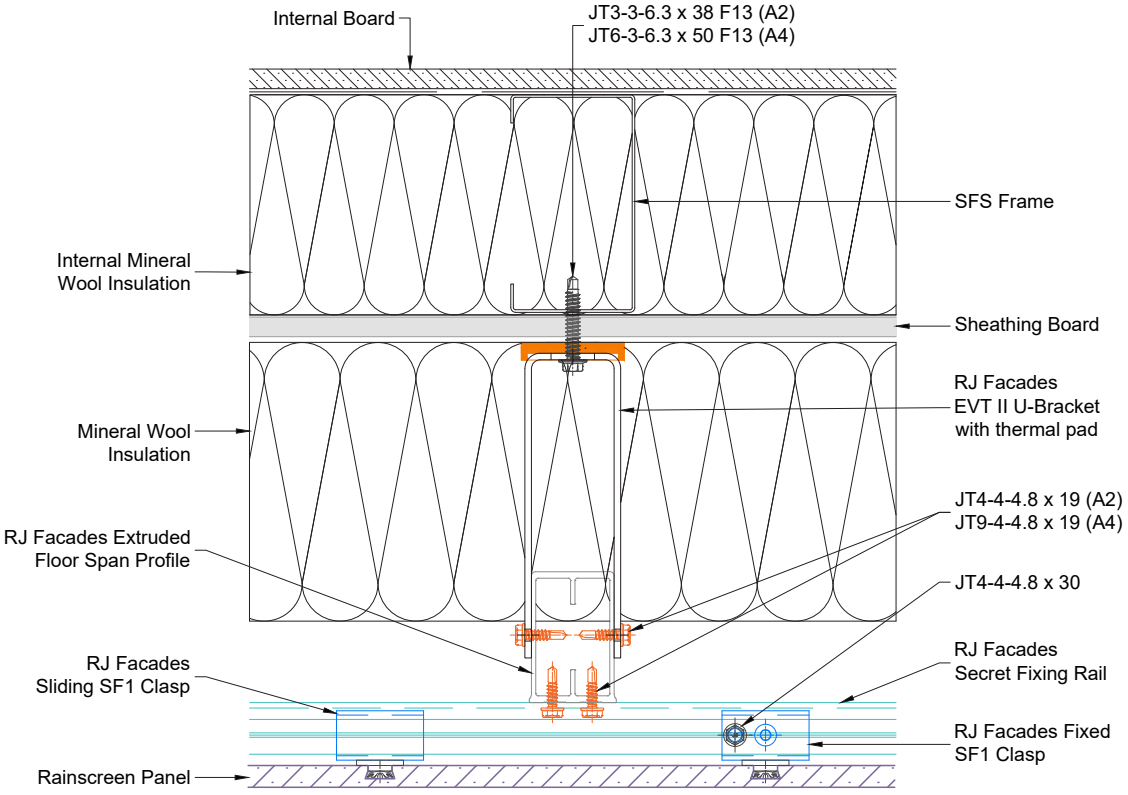


80 Bracket
ADJUSTMENT= +/− 37mm
Clad Zone= 114mm to 151mm

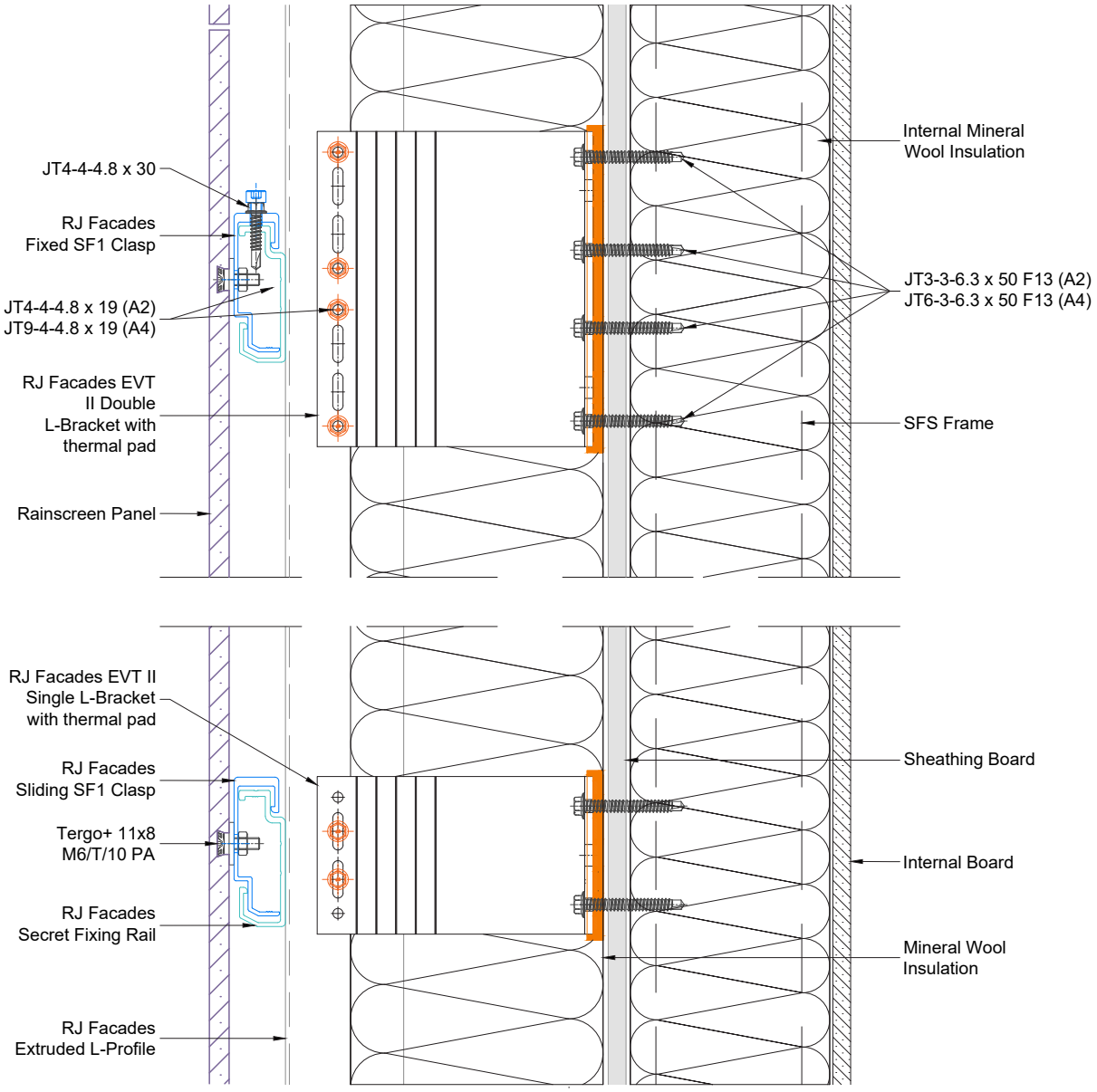
Secret Fix-1


Internal Board
JT3-3-6.3 x 38 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
SFS Frame
Internal Mineral Wool Insulation
Sheathing Board
RJ Facades EVT II L-Bracket with thermal pad
Mineral Wool Insulation
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades Secret Fixing Rail
RJ Facades Extruded L-Profile
JT4-4-4.8 x 30
RJ Facades Sliding SF1 Clasp
RJ Facades Fixed SF1 Clasp
Rainscreen Panel

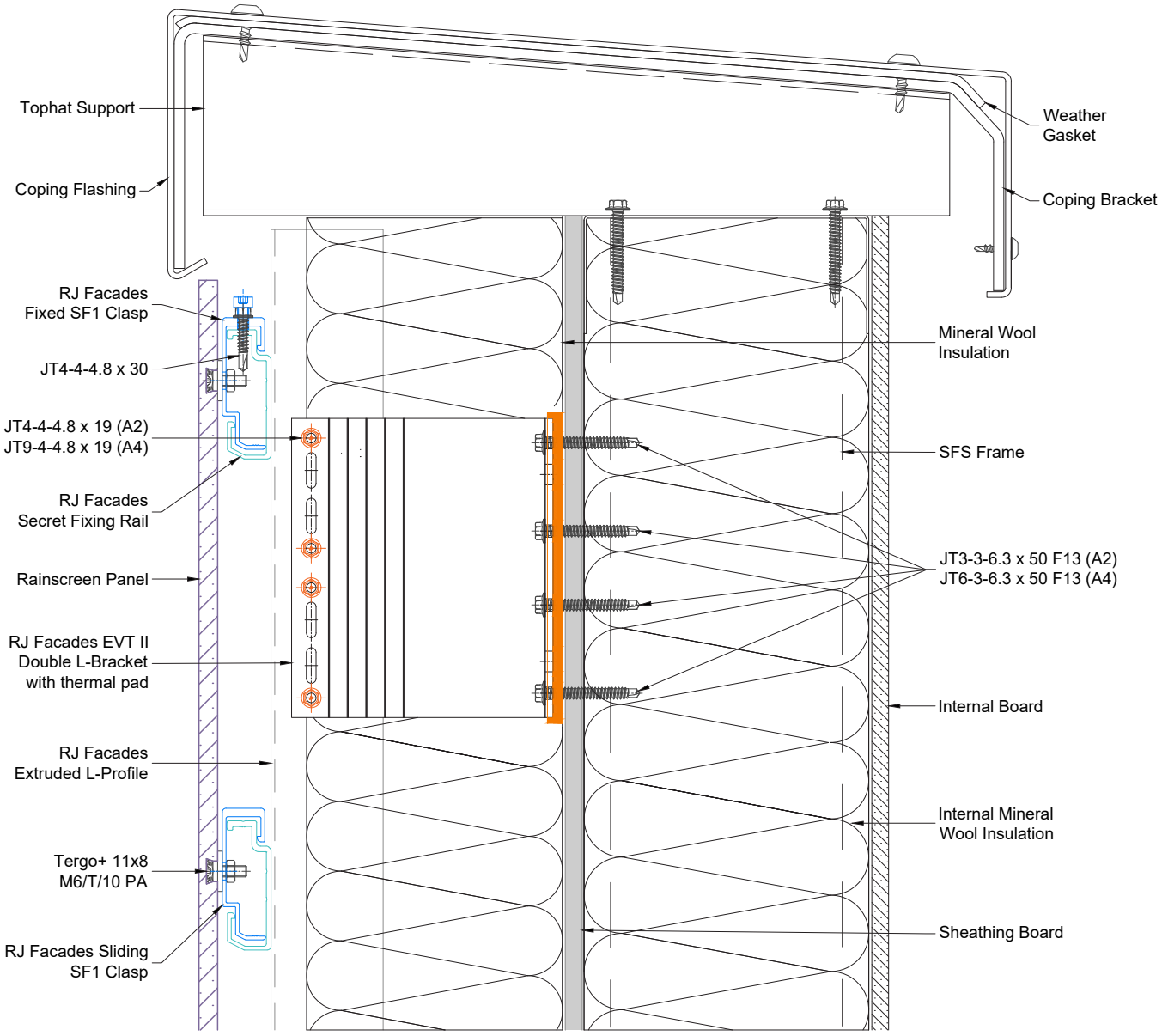
Secret Fix-1


Internal Board
JT3-3-6.3 x 38 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
SFS Frame
Internal Mineral Wool Insulation
Sheathing Board
RJ Facades EVT II U-Bracket with thermal pad
Mineral Wool Insulation
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades Extruded Floor Span Profile
JT4-4-4.8 x 30
RJ Facades Secret Fixing Rail
RJ Facades Sliding SF1 Clasp
RJ Facades Fixed SF1 Clasp
Rainscreen Panel

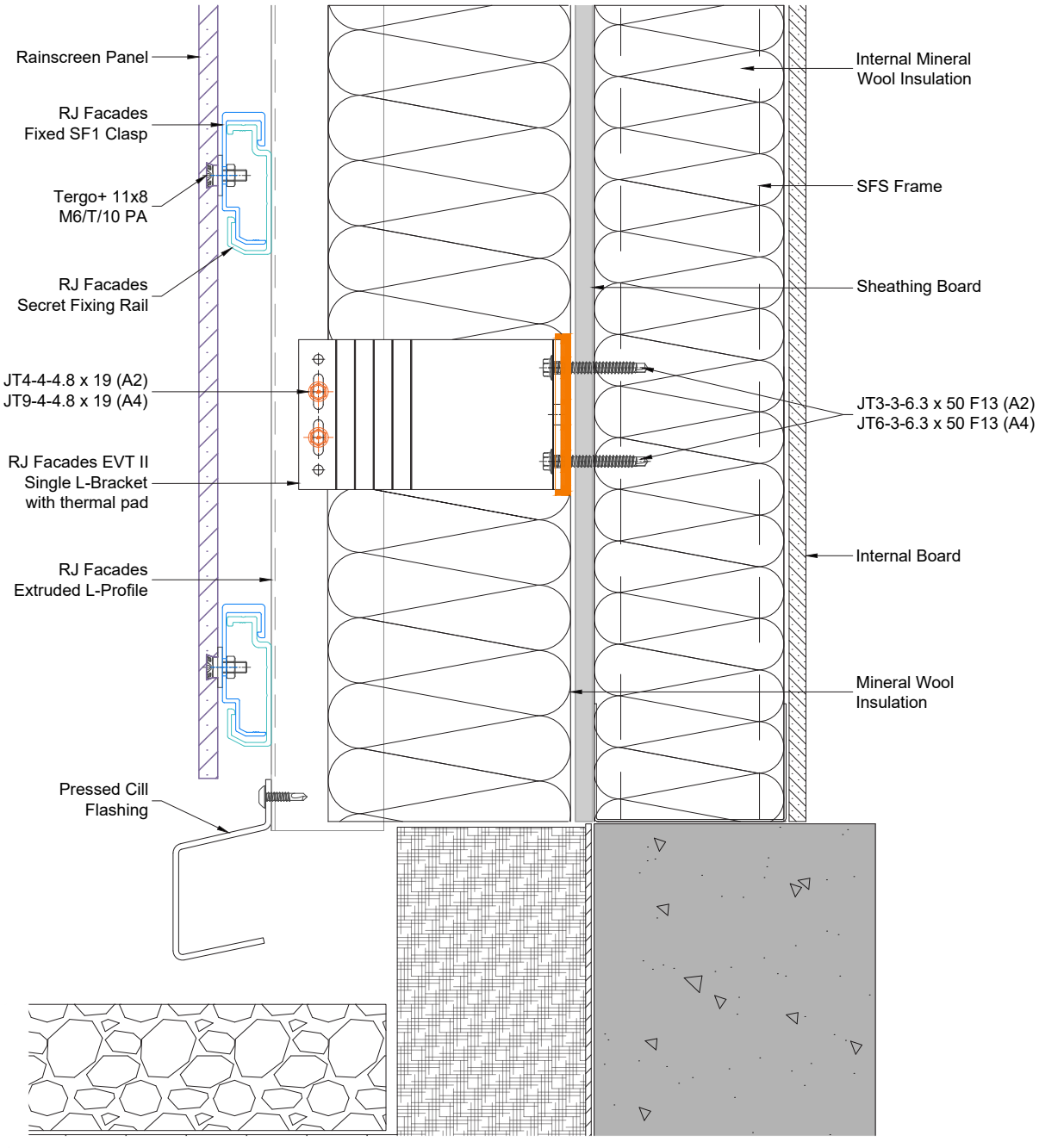
Secret Fix-1


JT4-4-4.8 x 30
RJ Facades
Fixed SF1 Clasp
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades EVT
II Double
L-Bracket with
thermal pad
Rainscreen Panel
Internal Mineral
Wool Insulation
JT3-3-6.3 x 50 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
SFS Frame
RJ Facades EVT II
Single L-Bracket
with thermal pad
RJ Facades
Sliding SF1 Clasp
Tergo+ 11x8
M6/T/10 PA
RJ Facades
Secret Fixing Rail
RJ Facades
Extruded L-Profile
Sheathing Board
Internal Board
Mineral Wool
Insulation

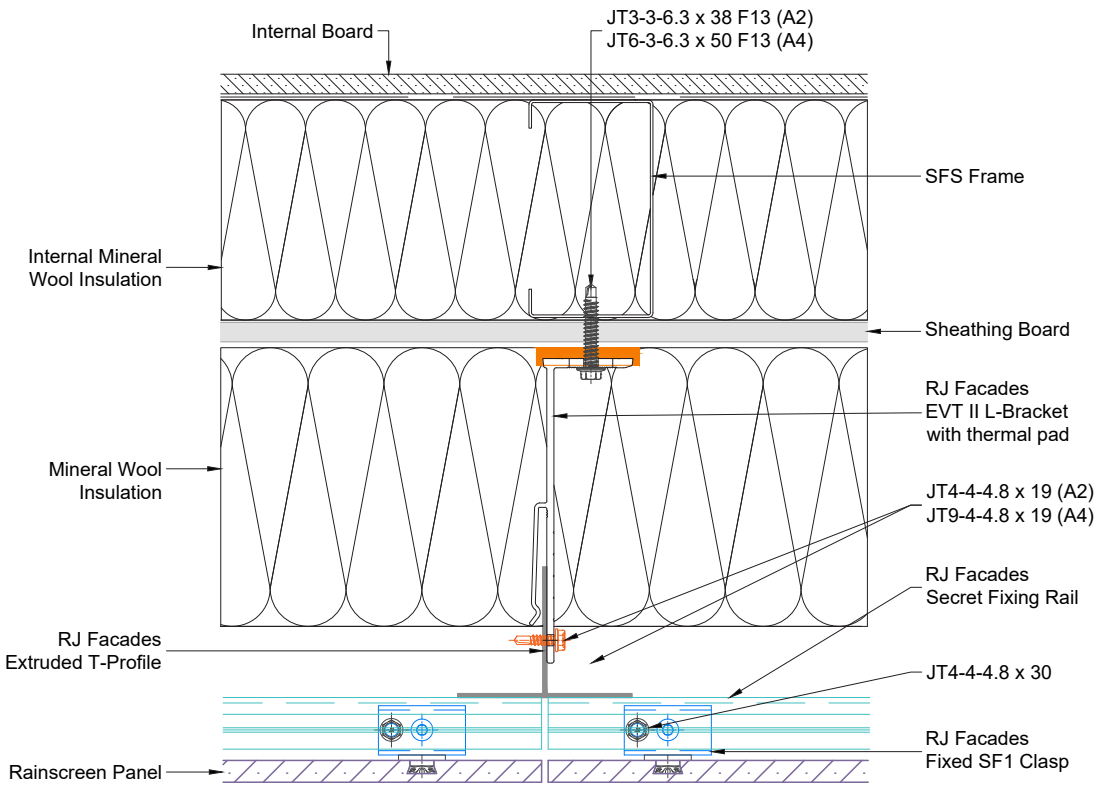
Secret Fix-1


Tophat Support
Coping Flashing
RJ Facades
Fixed SF1 Clasp
JT4-4-4.8 x 30
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades
Secret Fixing Rail
Rainscreen Panel
RJ Facades EVT II
Double L-Bracket
with thermal pad
RJ Facades
Extruded L-Profile
Tergo+ 11x8
M6/T/10 PA
RJ Facades Sliding
SF1 Clasp
Weather
Gasket
Coping Bracket
Mineral Wool
Insulation
SFS Frame
JT3-3-6.3 x 50 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Internal Board
Internal Mineral
Wool Insulation
Sheathing Board

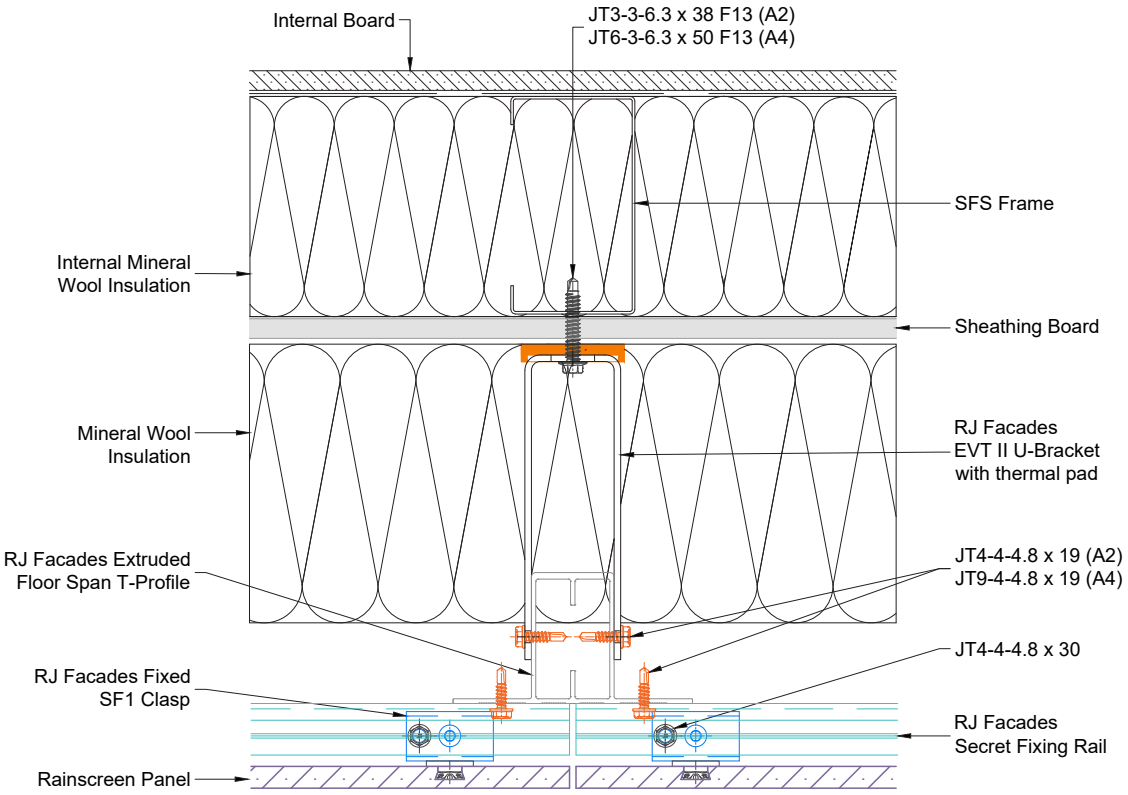
Secret Fix-1


Rainscreen Panel
RJ Facades
Fixed SF1 Clasp
Tergo+ 11x8
M6/T/10 PA
RJ Facades
Secret Fixing Rail
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades EVT II
Single L-Bracket
with thermal pad
RJ Facades
Extruded L-Profile
Pressed Cill
Flashing
Internal Mineral
Wool Insulation
SFS Frame
Sheathing Board
JT3-3-6.3 x 50 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Internal Board
Mineral Wool
Insulation

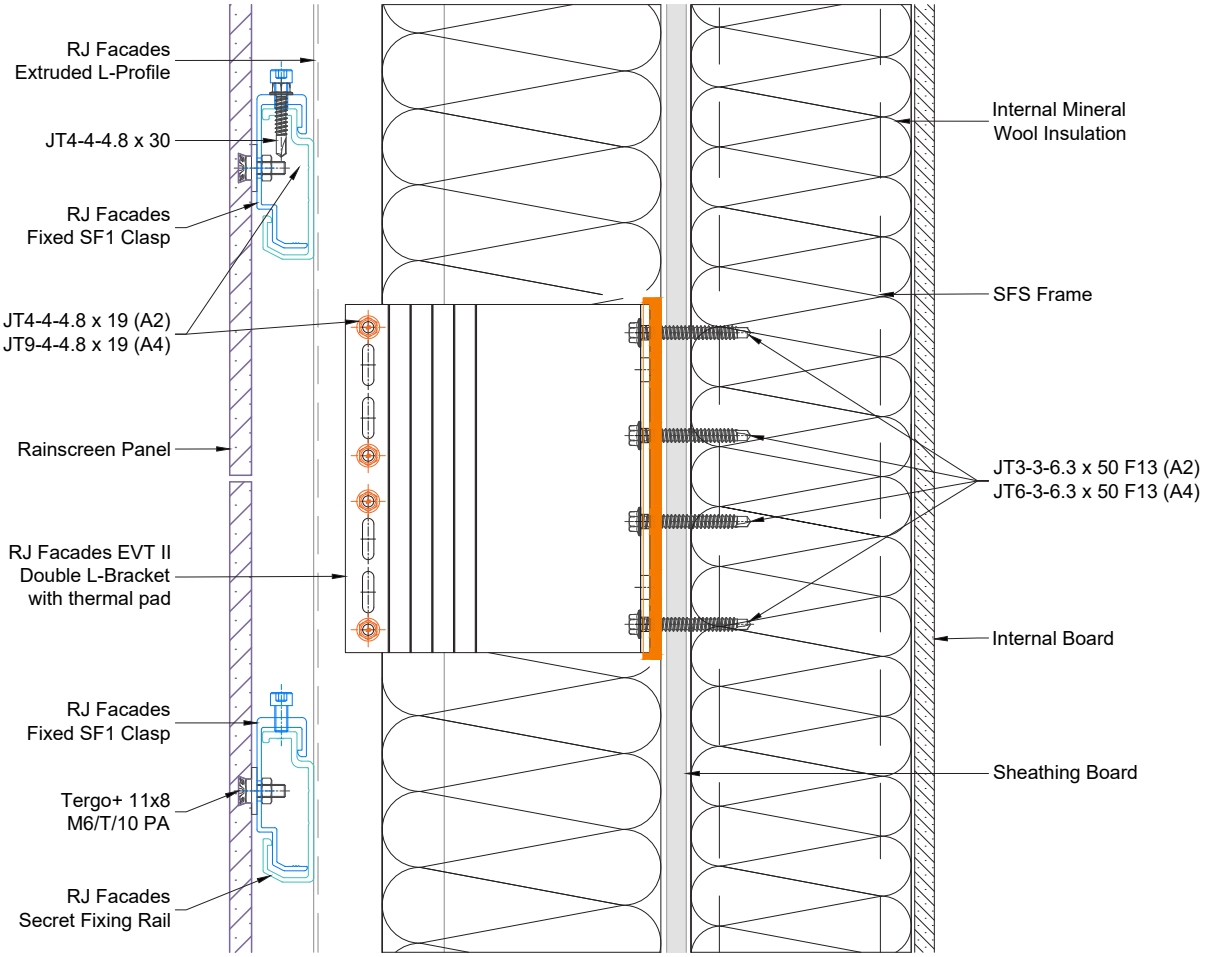
Secret Fix-1


Internal Board
JT3-3-6.3 x 38 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
SFS Frame
Internal Mineral Wool Insulation
Sheathing Board
RJ Facades EVT II L-Bracket with thermal pad
Mineral Wool Insulation
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades Secret Fixing Rail
RJ Facades Extruded T-Profile
JT4-4-4.8 x 30
RJ Facades Fixed SF1 Clasp
Rainscreen Panel

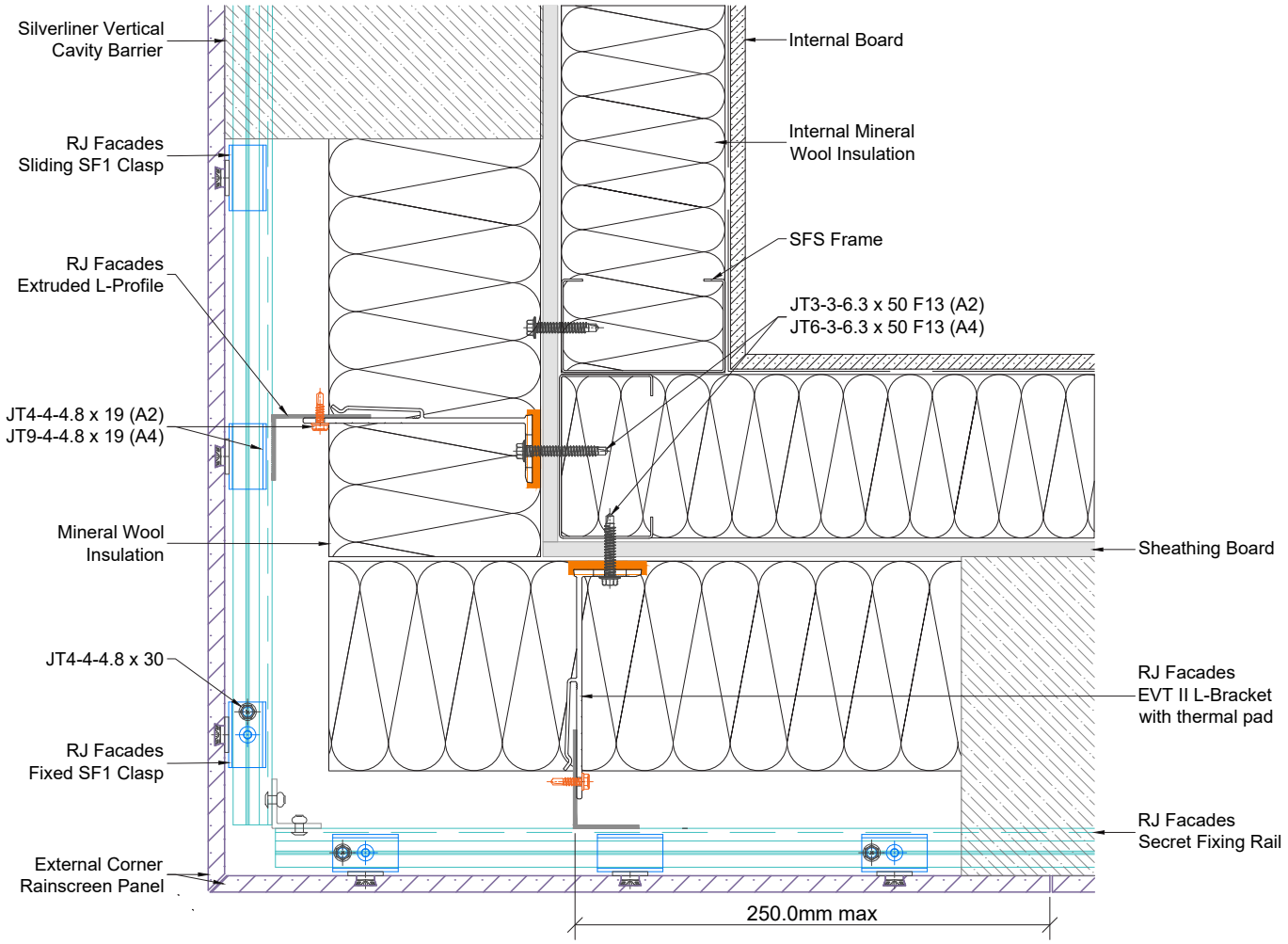
Secret Fix-1


Internal Board
JT3-3-6.3 x 38 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
SFS Frame
Internal Mineral
Wool Insulation
Sheathing Board
Mineral Wool
Insulation
RJ Facades
EVT II U-Bracket
with thermal pad
RJ Facades Extruded
Floor Span T-Profile
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
JT4-4-4.8 x 30
RJ Facades Fixed
SF1 Clasp
RJ Facades
Secret Fixing Rail
Rainscreen Panel

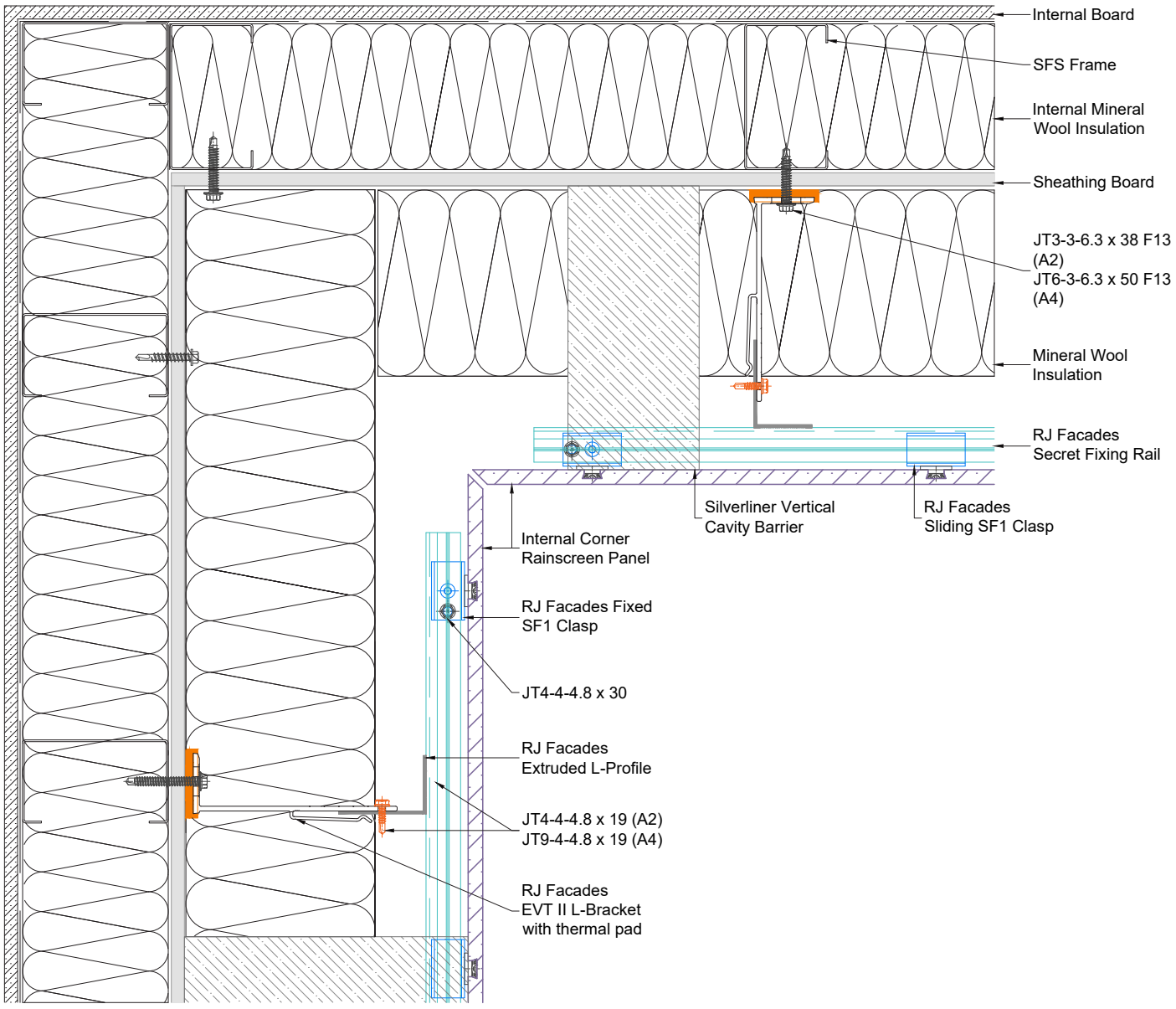
Secret Fix-1


RJ Facades
Extruded L-Profile
JT4-4-4.8 x 30
RJ Facades
Fixed SF1 Clasp
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
Rainscreen Panel
RJ Facades EVT II
Double L-Bracket
with thermal pad
RJ Facades
Fixed SF1 Clasp
Tergo+ 11x8
M6/T/10 PA
RJ Facades
Secret Fixing Rail
Internal Mineral
Wool Insulation
SFS Frame
JT3-3-6.3 x 50 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Internal Board
Sheathing Board

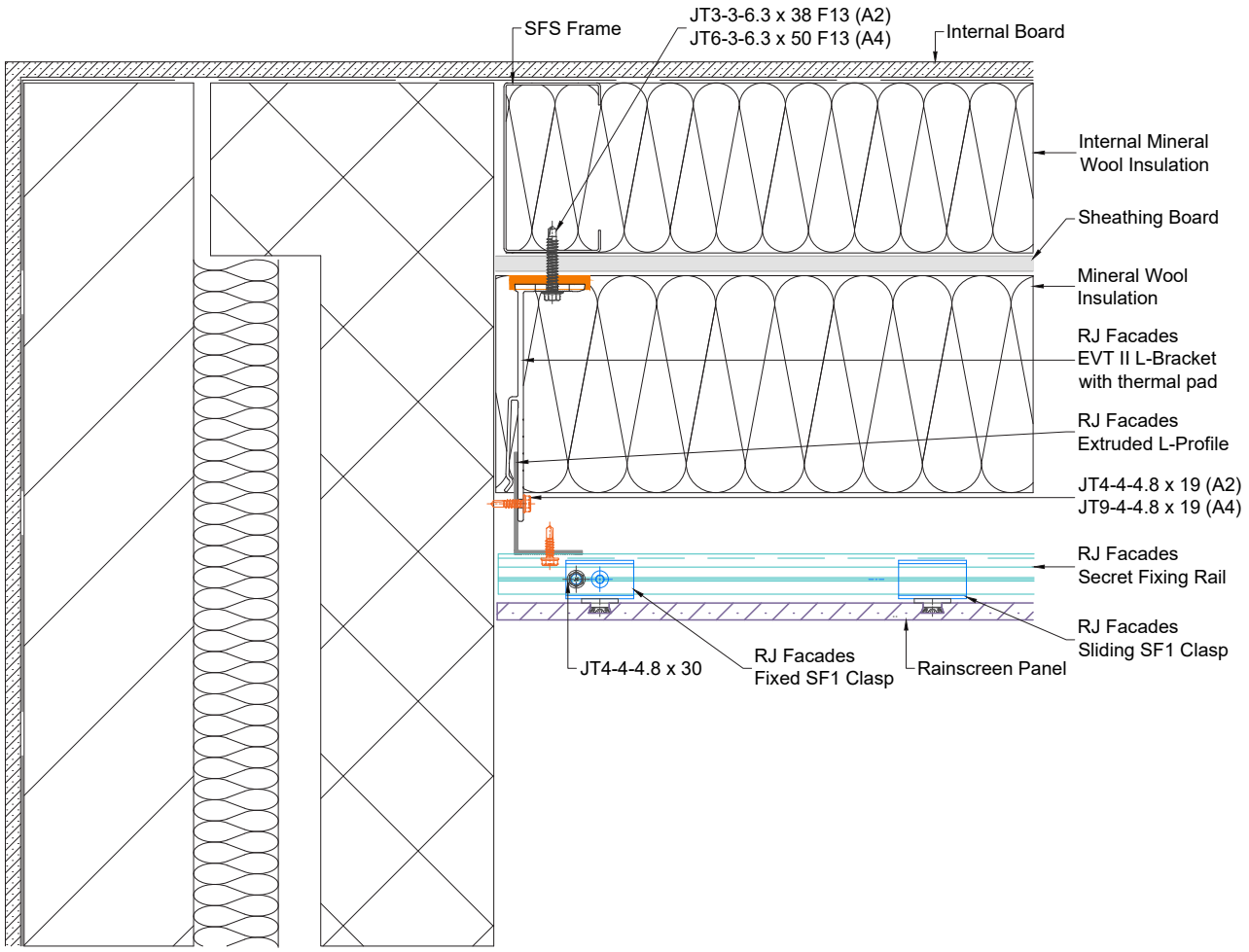
Secret Fix-1


Silverliner Vertical Cavity Barrier
RJ Facades Sliding SF1 Clasp
RJ Facades Extruded L-Profile
JT4-4-4.8 x 19 (A2) JT9-4-4.8 x 19 (A4)
Mineral Wool Insulation
JT4-4-4.8 x 30
RJ Facades Fixed SF1 Clasp
External Corner Rainscreen Panel
Internal Board
Internal Mineral Wool Insulation
SFS Frame
JT3-3-6.3 x 50 F13 (A2) JT6-3-6.3 x 50 F13 (A4)
Sheathing Board
RJ Facades EVT II L-Bracket with thermal pad
RJ Facades Secret Fixing Rail
250.0mm max

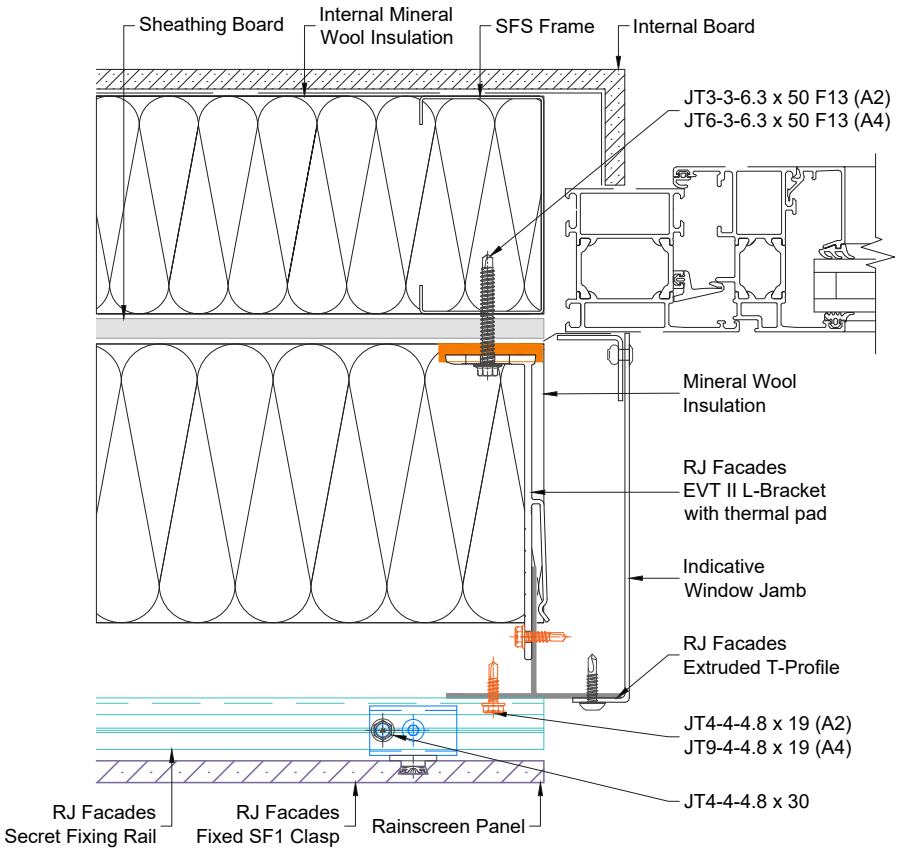
Secret Fix-1


Internal Board
SFS Frame
Internal Mineral Wool Insulation
Sheathing Board
JT3-3-6.3 x 38 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Mineral Wool Insulation
RJ Facades Secret Fixing Rail
Silverliner Vertical Cavity Barrier
RJ Facades Sliding SF1 Clasp
Internal Corner Rainscreen Panel
RJ Facades Fixed SF1 Clasp
JT4-4-4.8 x 30
RJ Facades Extruded L-Profile
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades EVT II L-Bracket with thermal pad

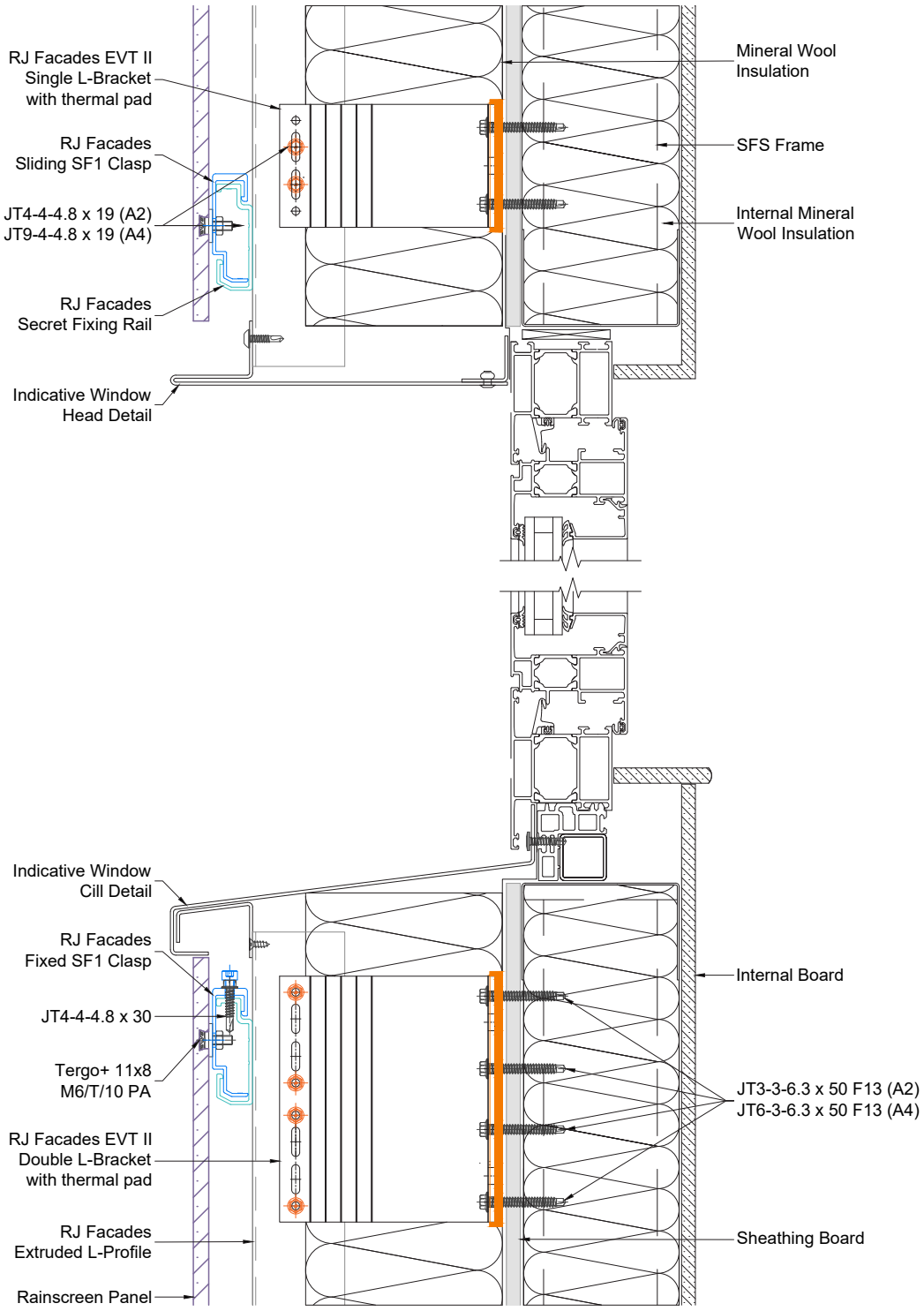
Secret Fix-1


SFS Frame
JT3-3-6.3 x 38 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Internal Board
Internal Mineral Wool Insulation
Sheathing Board
Mineral Wool Insulation
RJ Facades EVT II L-Bracket with thermal pad
RJ Facades Extruded L-Profile
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades Secret Fixing Rail
RJ Facades Sliding SF1 Clasp
JT4-4-4.8 x 30
RJ Facades Fixed SF1 Clasp
Rainscreen Panel

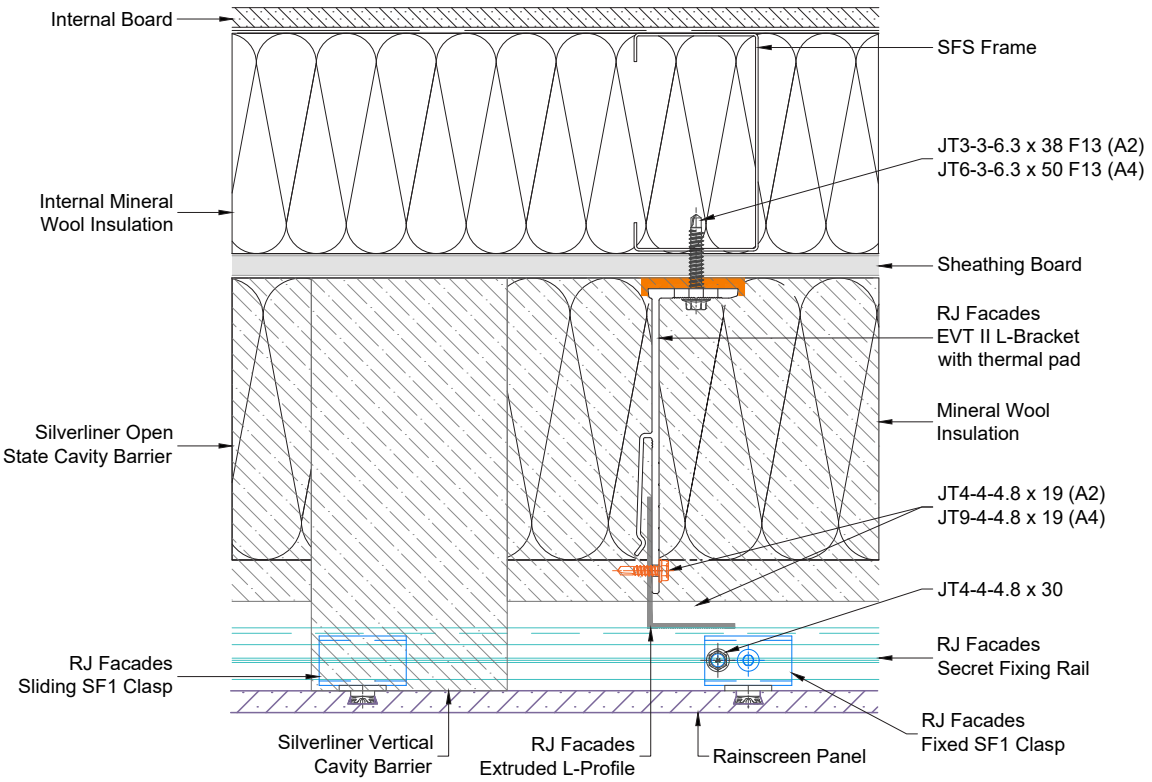
Secret Fix-1


Sheathing Board
Internal Mineral Wool Insulation
SFS Frame
Internal Board
JT3-3-6.3 x 50 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Mineral Wool Insulation
RJ Facades EVT II L-Bracket with thermal pad
Indicative Window Jamb
RJ Facades Extruded T-Profile
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
JT4-4-4.8 x 30
RJ Facades Secret Fixing Rail
RJ Facades Fixed SF1 Clasp
Rainscreen Panel

Secret Fix-1


RJ Facades EVT II
Single L-Bracket
with thermal pad
RJ Facades
Sliding SF1 Clasp
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
RJ Facades
Secret Fixing Rail
Indicative Window
Head Detail
Mineral Wool
Insulation
SFS Frame
Internal Mineral
Wool Insulation
Indicative Window
Cill Detail
RJ Facades
Fixed SF1 Clasp
JT4-4-4.8 x 30
Tergo+ 11x8
M6/T/10 PA
RJ Facades EVT II
Double L-Bracket
with thermal pad
RJ Facades
Extruded L-Profile
Rainscreen Panel
Internal Board
JT3-3-6.3 x 50 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Sheathing Board

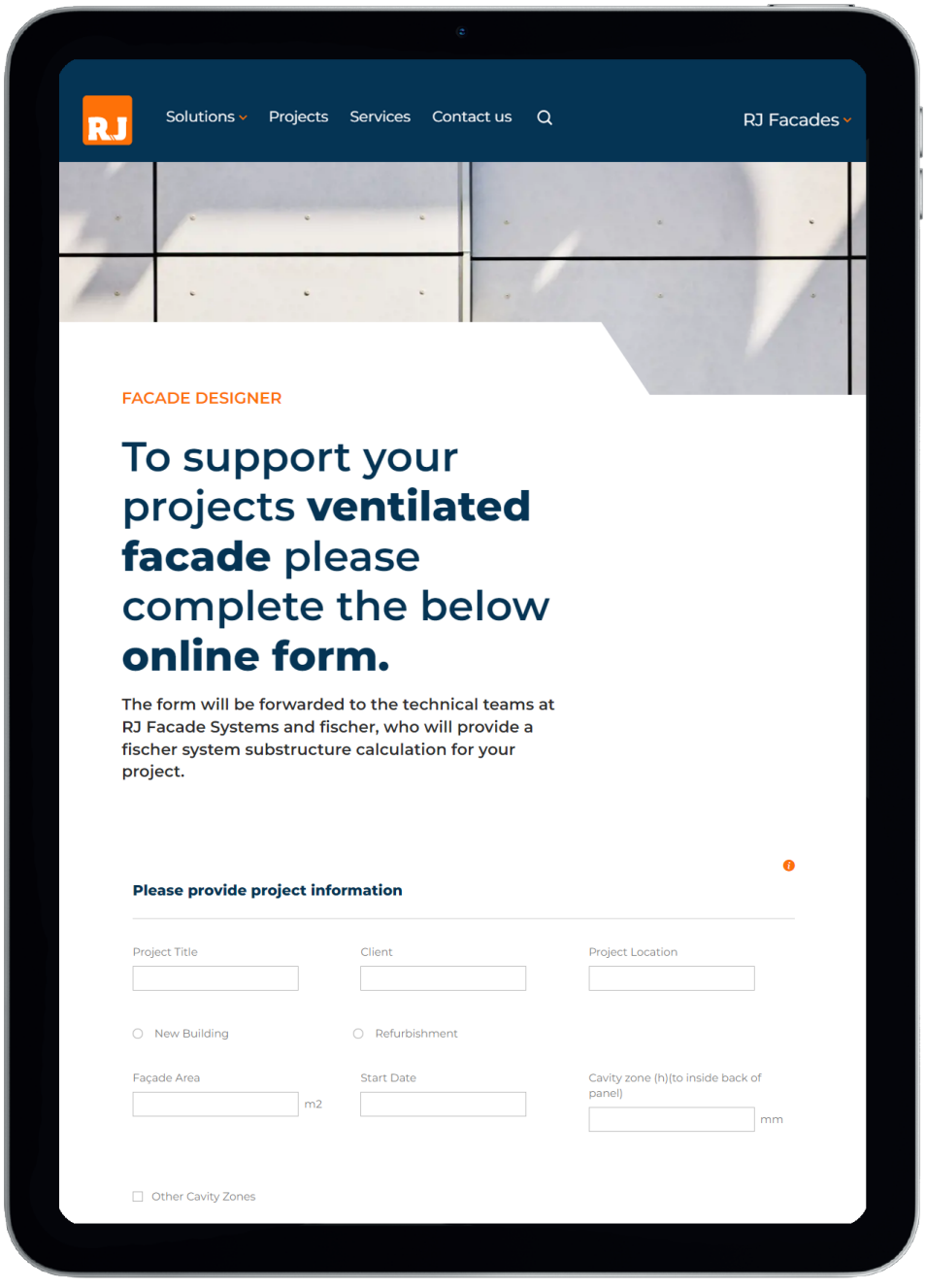
Secret Fix-1


Internal Board
SFS Frame
JT3-3-6.3 x 38 F13 (A2)
JT6-3-6.3 x 50 F13 (A4)
Internal Mineral
Wool Insulation
Sheathing Board
RJ Facades
EVT II L-Bracket
with thermal pad
Mineral Wool
Insulation
Silverliner Open
State Cavity Barrier
JT4-4-4.8 x 19 (A2)
JT9-4-4.8 x 19 (A4)
JT4-4-4.8 x 30
RJ Facades
Secret Fixing Rail
RJ Facades
Sliding SF1 Clasp
RJ Facades
Fixed SF1 Clasp
Silverliner Vertical
Cavity Barrier
RJ Facades
Extruded L-Profile
Rainscreen Panel

Facade Designer

RJ Facade Designer

For each calculation of new projects by RJ Facades, it is necessary for a project checklist form to be filled. It includes detailed information, which helps customers to receive the most accurate and precise offer. The offers may vary depending on the cladding/facade material; the dimensions and weight of the material; wind load; floor heights; thickness of thermal insulation; structural base; raster of the facades; fixing methods; and different ventilated facade systems. In order to achieve a qualitative calculation, it is necessary for the drawings to be submitted via email/ courier in CAD format. If there are any specific features of the project, these are also taken into consideration.



Standards & liability

Standards

General

EN 12020 (1÷2) - Aluminium and aluminium alloys - Extruded precision profiles in alloys EN AW-6060 and EN AW-6063

EN 755 (1÷9)– Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles

EN 573 (1÷3) - Aluminium and aluminium alloys - Chemical composition and form of wrought products

EN 15088 – Aluminium and aluminium alloys – Structural products for construction works – Technical conditions for inspection and delivery

EN 1990 Eurocode - Basis of structural design

EN 1991 Eurocode 1 - Actions on structures

EN 1998 Eurocode 8 - Design of structures for earthquake resistance

EN 1999 Eurocode 9 - Design of aluminium structures

Ventilated facade systems

ETAG 034, part 1 – Kits for external wall claddings, Part I: Ventilated cladding kits comprising cladding components and associated fixings

ETAG 034, part 2 – Kits for external wall claddings, Part II: Cladding kits comprising cladding components, associated fixings, subframe and possible insulation layer

CWCT Standard for Systemized Building Envelopes

EN 13830 - Curtain walling - Product standard

EN ISO 6946 - Building components and building elements - Thermal resistance and thermal transmittance - Calculation method

EN ISO 10211 - Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations EN

ISO 14683 - Thermal bridges in building construction - Linear thermal transmittance - Simplified methods and default values

EN 13116 - Curtain walling - Resistance to wind load - Performance requirements

EN 12179 - Curtain walling - Resistance to wind load - Test method

EN 14019 - Curtain Walling - Impact resistance - Performance requirements

EN ISO 10140 - Acoustics - Laboratory measurement of sound insulation of building elements

EN 20140 - Acoustics - Measurement of sound insulation in buildings and of building elements

EN ISO 717-1 - Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation

Liability

The stated data and calculating methods are provided by RJ Facades as a guideline only.

The information given in this catalogue does not substitute all applicable regulations – Eurocodes, harmonized European standard, national or regional building codes.

The specific conditions and technical details of every particular project have to be take in consideration.

The right choice of all elements as well as any special requirements regarding stability of the structure must always be considered by the structural/facade engineer, responsible for the project.

The solution presented in these pages are indicative and cannot cover all possible project cases. Because of that every single project has to be evaluated by the structural/facade engineer in charge taking into consideration the specific features, such as climate conditions, location, orientation, etc.

RJ Facades is not liable for any calculation and conclusions made on the basis of the stated information. All calculations and specifications must be estimated, endorsed and guaranteed by architect, engineer, professional or legal entity authorized by law for such activities.

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