



GLACE

MOUNTAINS INSPIRE US

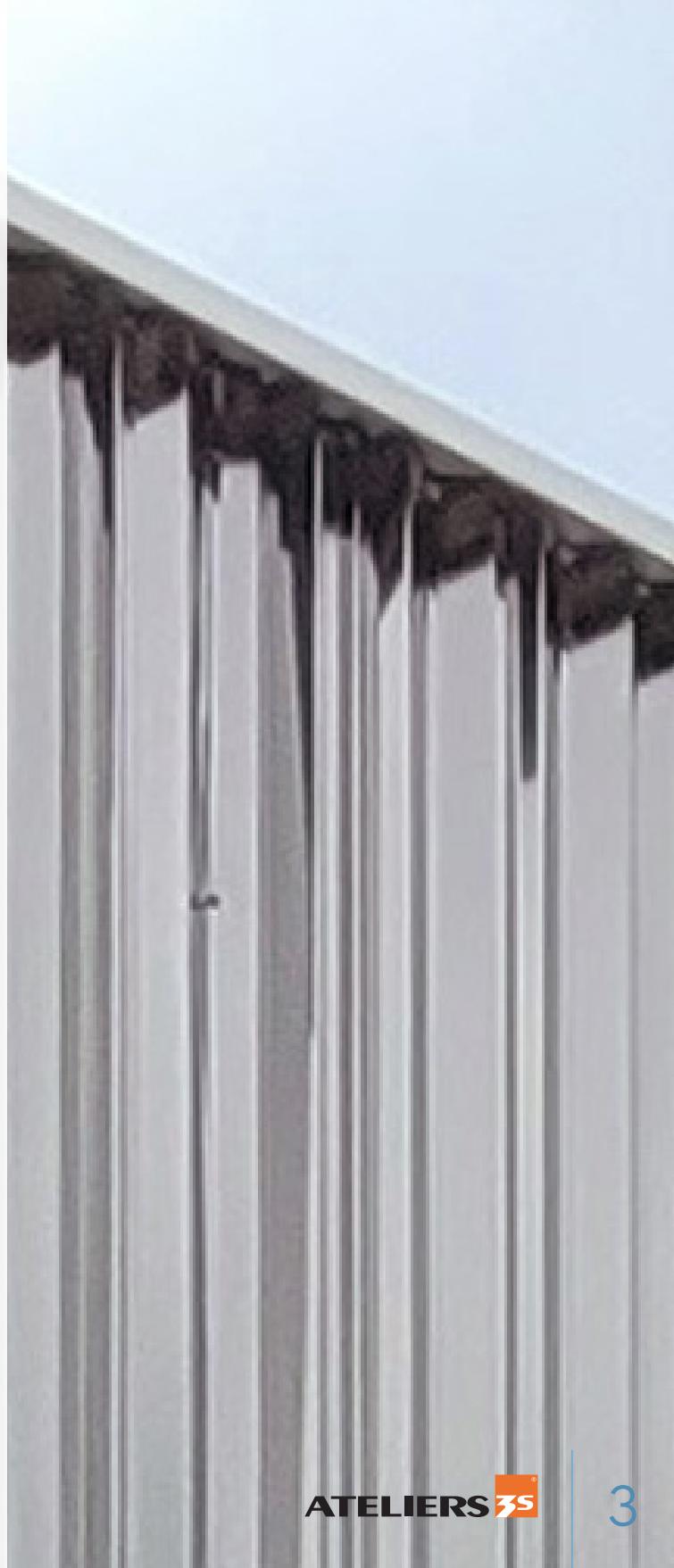
ATELIERS 
metal cladding creators



SUMMARY

GLACE

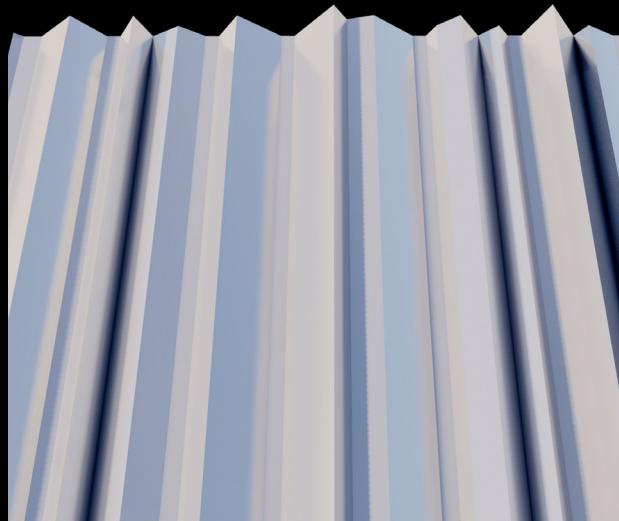
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GLACE



GLACE RANGE®



GLACE

Mountains inspire us

A mountain range in silhouette offers a succession of slopes and peaks of varying degrees, with no flat areas between them. The metal sheets in the GLACE® range are designed to resemble these triangles that form an unbroken link with steeply sloped summits and deep valleys. Sheet metal profiling requires perfect control of every angle. This is the latest challenge that we have taken up in the name of aesthetics.

Each rib of one of the 3 different profiles is angled differently to allow endless possibilities for exposure to sunlight. We wanted our profiles to be straightforward cuts, pointed, as sharp as crystals.

Through their mountainous silhouette we pay tribute to three mountain ranges, three glaciers dear to our hearts :

PISSAILLAS®, BOSSONS® et JORASSES®





THE PROFILES

PISSAILLAS 1000®



PROFILE PISSAILLAS 1000®

At a moderate altitude in the Vanoise massif, this is our first ribbed design with randomised peaks that range from 20 mm to 40 mm height.

Material	Thickness (mm)	Weight (kg/m ²)
Steel S280 GD + Z275	0.75	7.18

Effective width : **1000 mm** - Sheets length : **8000 mm maximum**
Vertical or horizontal application

Coating	Norm
Hot dip Galvanized	NF EN 10346
Polyester 35µ THD	Coil coating EN 10169
Polyurethane 50µ	Coil coating EN 10169
Post-coating 60µ	
Other coating	Upon request

REGISTERED
DESIGNS

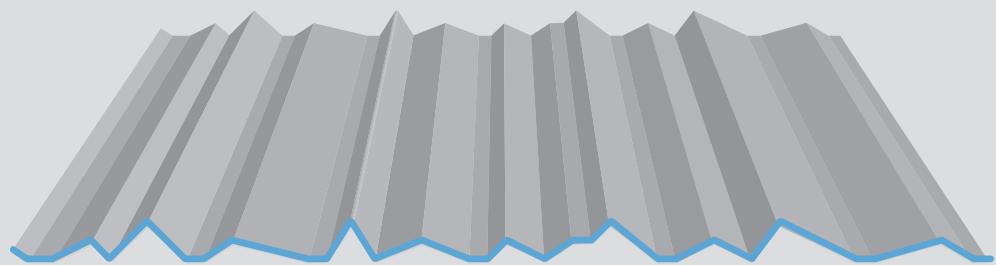
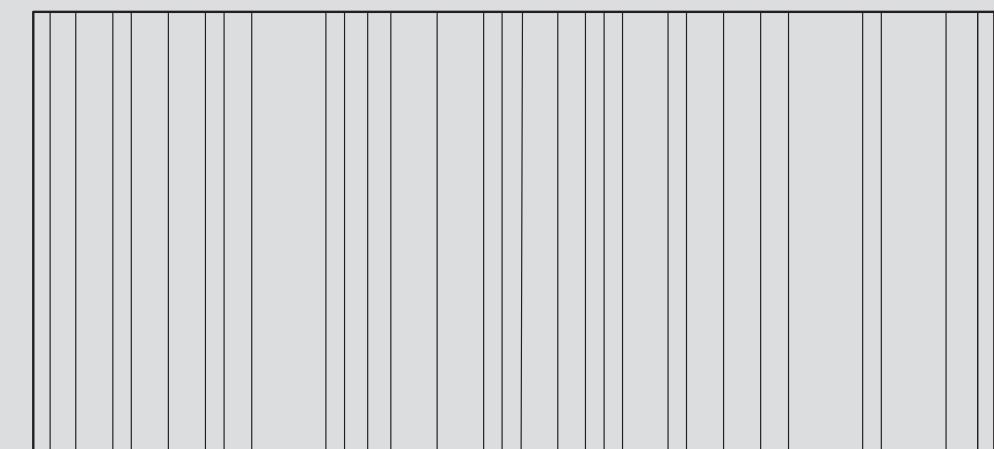
30-YEAR WARRANTY
FIRE : A1
IMPACT : Q4

TRADITIONAL
INSTALLATION
METHOD

MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

PISSAILLAS 1000®



BOSSONS 900®



PROFILE BOSSONS 900®

Respectfully sheltered from the Mont Blanc, the BOSSONS 90 design maintains a constant height of 40 mm with randomised rib slopes.

Material	Thickness (mm)	Weight (kg/m ²)
Steel S280 GD + Z275	0.75	7.98

Effective width : **900 mm** - Sheets length : **8000 mm maximum**
Vertical or horizontal application

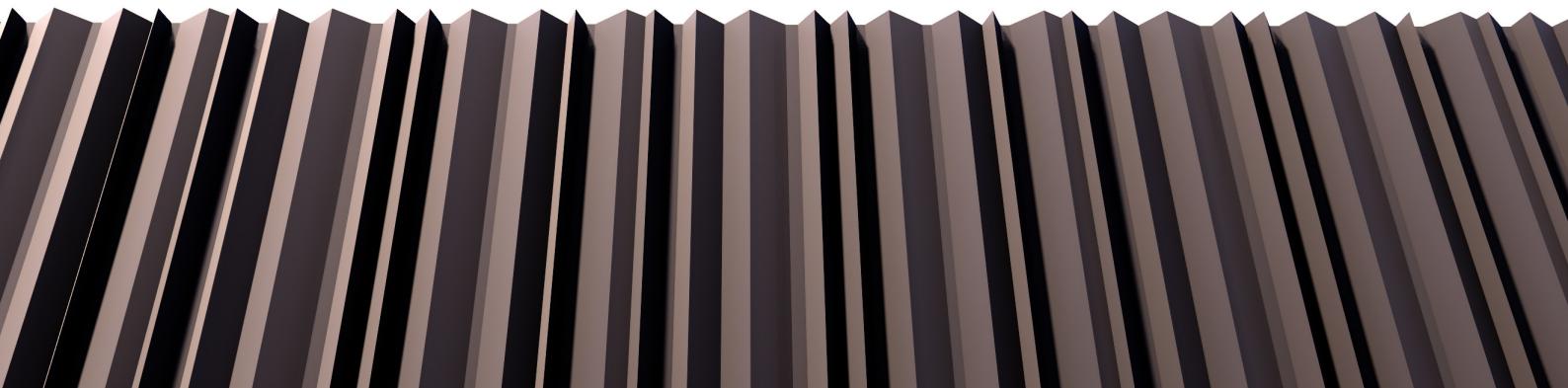
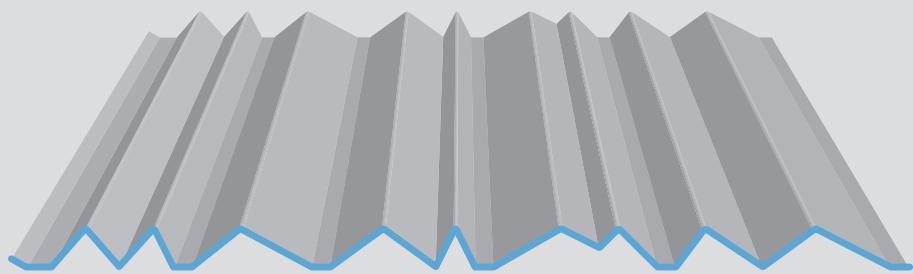
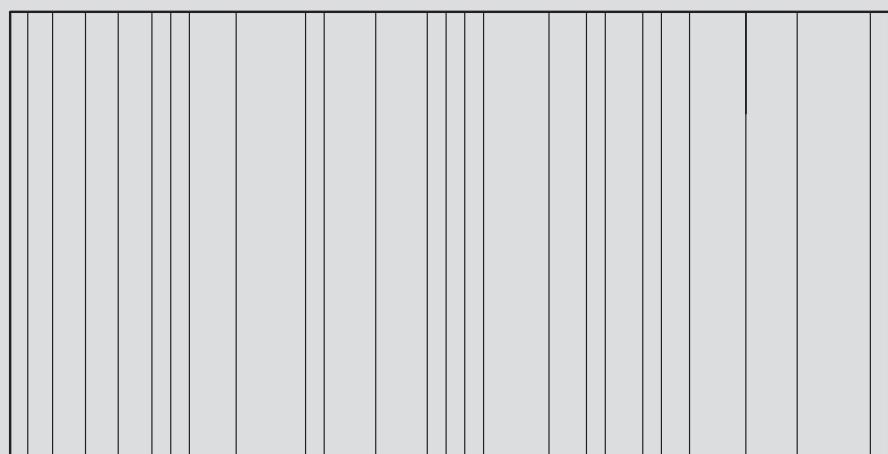
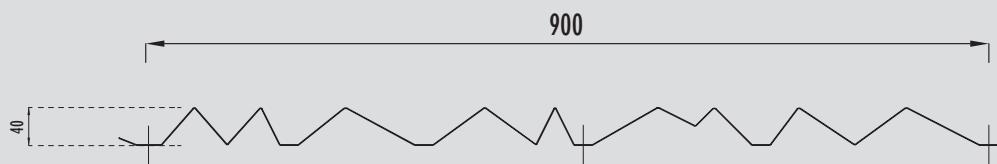
Coating	Norm
Hot dip Galvanized	NF EN 10346
Polyester 35µ THD	Coil coating EN 10169
Polyurethane 50µ	Coil coating EN 10169
Post-coating 60µ	
Other coating	Upon request

REGISTERED
DESIGNS30-YEAR WARRANTY
FIRE : A1
IMPACT : Q4TRADITIONAL
INSTALLATION
METHOD

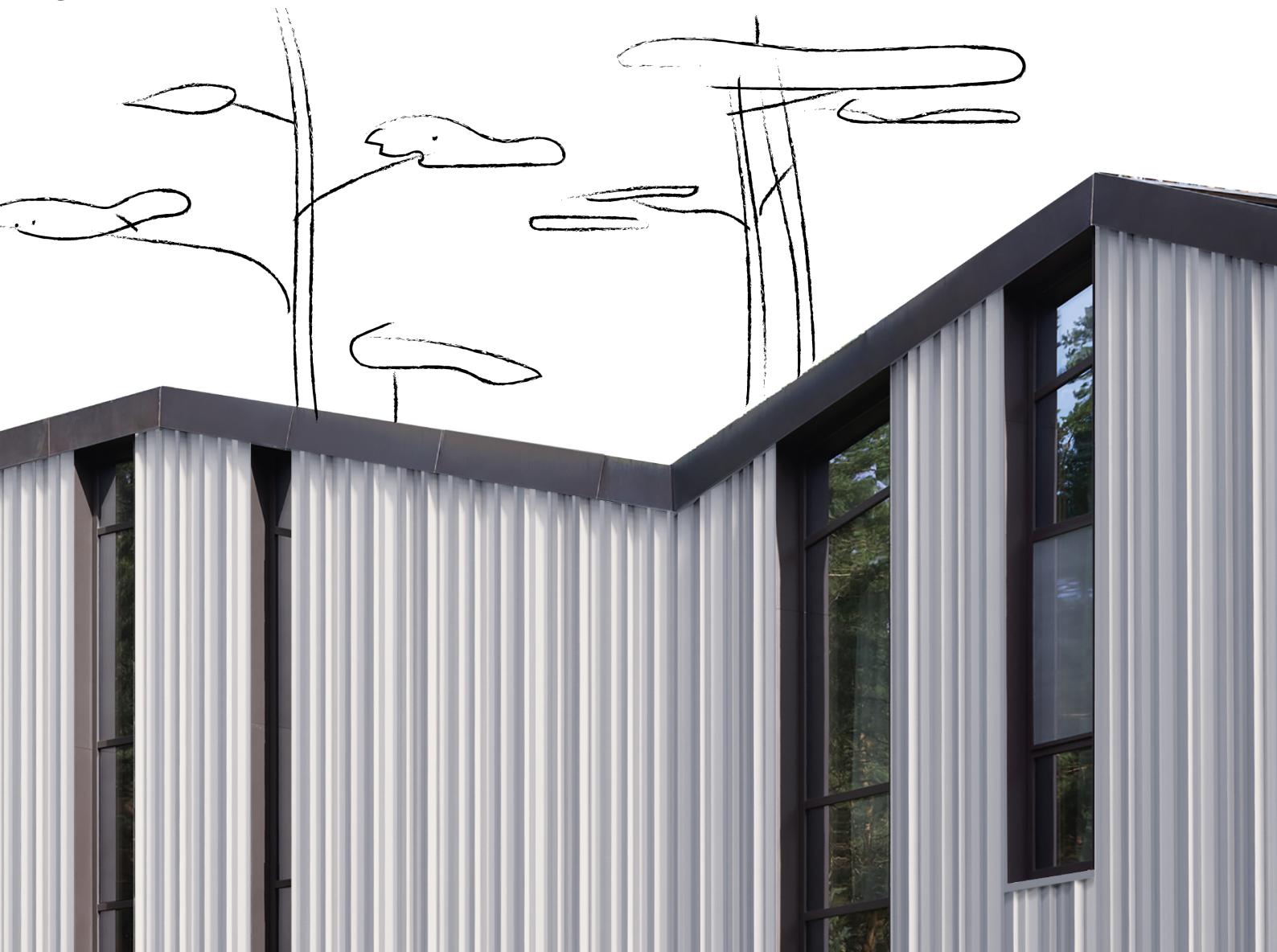
MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

BOSSONS 900®



JORASSES 900®



PROFILE JORASSES 900®

Culminating in its hard to climb North face, the Grand Jorasses are naturally symbolized by our most prominent design, with ribs ranging from 20 mm to 60 mm in height.

Material	Thickness (mm)	Weight (kg/m ²)
Steel S280 GD + Z275	0.75	7.98

Effective width : **900 mm** - Sheets length : **8000 mm maximum**
Vertical or horizontal application

Coating	Norm
Hot dip Galvanized	NF EN 10346
Polyester 35µ THD	Coil coating EN 10169
Polyurethane 50µ	Coil coating EN 10169
Post-coating 60µ	
Other coating	Upon request

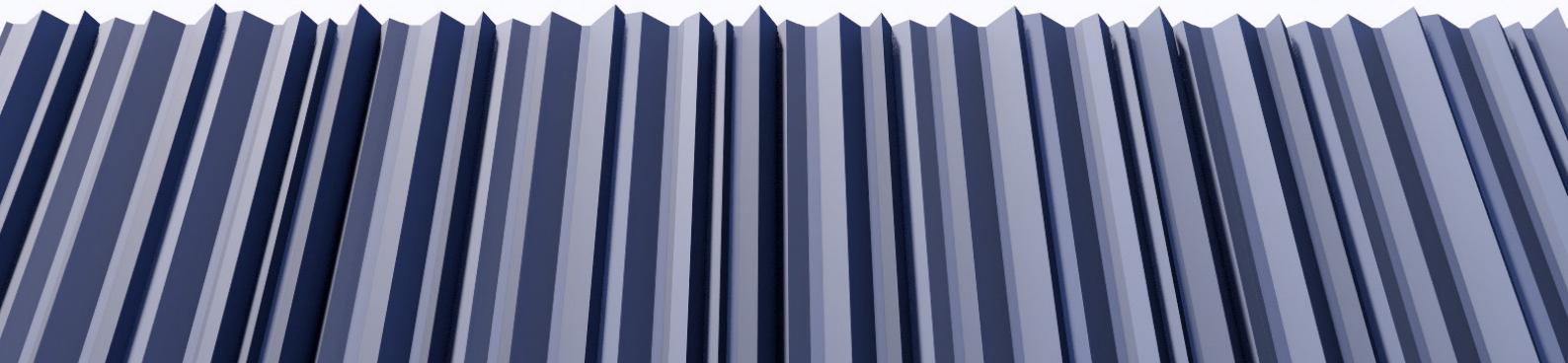
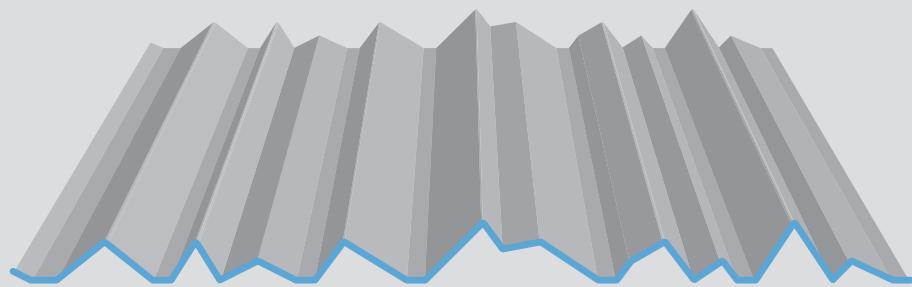
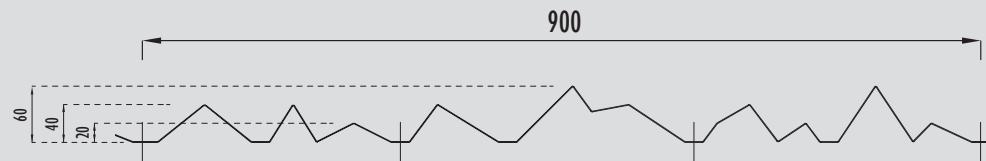
REGISTERED DESIGNS

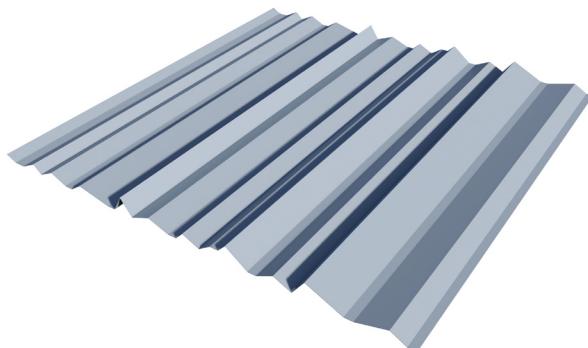
30-YEAR WARRANTY
FIRE : A1
IMPACT : Q4TRADITIONAL
INSTALLATION
METHOD

MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

JORASSES 900®





PISSAILLAS 1000®
Profile height 40 mm

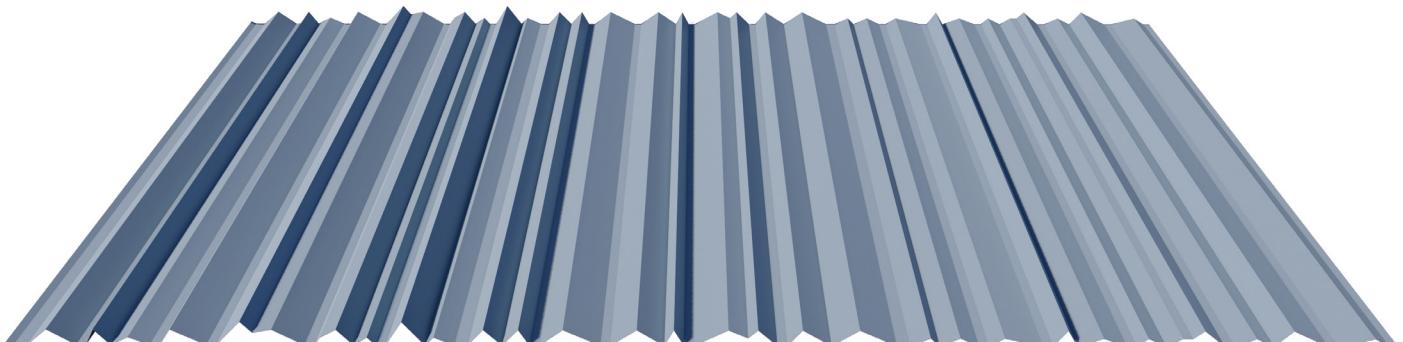


BOSSONS 900®
Profile height 40 mm



JORASSES 900®
Profile height 60 mm

Create your own pattern by **mixing the three different profiles** with their different heights.



LOAD CAPACITIES

SPAN TABLES IN DAN/M², ACCORDING TO WIND LOAD

Limit deflection criterion taken into account: 1/150th according to French professional recommendations (RAGE) under wind load calculated as per NF EN 1991-1-4

Nominal thicknesses in mm

PRESSURE		Span (m)	SUCTION	
2 supports	3 supports		2 supports	3 supports
0.75	0.75	m	0.75	0.75
449	449	1.00	475	238
374	374	1.20	396	198
320	320	1.40	289	170
233	280	1.60	194	148
164	249	1.80	136	132
119	224	2.00	99	119
90	194	2.20	75	108
69	150	2.40	57	99
54	118	2.60	45	91
44	94	2.80	36	85
35	77	3.00	29	73

Based on the Pissalas model mechanical performances.

Test report n°R12846520-001-1



Test performed according to norm NF P 34-503-1 and interpretation as per Annexes E and N of the RAGE French professional recommendations

The GLACE range metal sheets are non-structural sheets according to standard NF EN 14782:2006, as per RAGE Professional Recommendations for Cladding of July 2014, not intended to receive PPE anchoring devices according to EN 795 standard or lifelines.





INSTALLATION

FIXING THE PANELS

With simplicity in mind, the rhythms of the GLACE range should not be broken by prominent screws. It is advisable to choose the most discreet models offered by manufacturers. Here are some examples particularly well suited to the task.

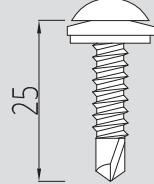
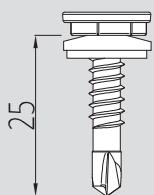
FIXING ON METAL FRAME



S TET SCREW
5.5X25



BEL VIS SCREW
5.5X25



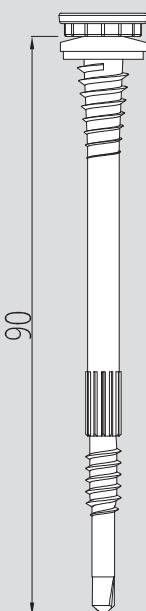
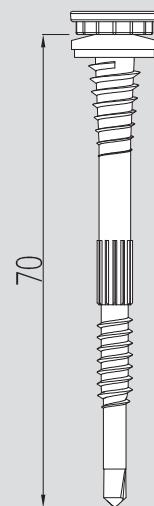
FIXING FOR DOUBLE-SKIN CLADDING



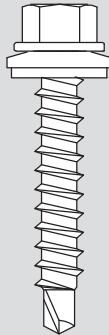
S TET SCREW
5.5X70



S TET SCREW
5.5X90



FIXING ON TIMBER FRAME



COLORVIS WOOD
6.3X35 MINI



Available in the RAL color
of your choice

S TET SCREW HEAD



BEL VIS SCREW HEAD

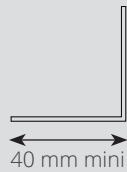


GLACE range screws are a visible part of the façade.

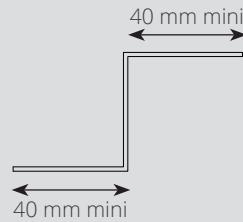
As well as complying with standards, particular care must be taken to ensure that it looks good. The shape of the screw head and its colour can be adapted to each building.

SECONDARY FRAMING

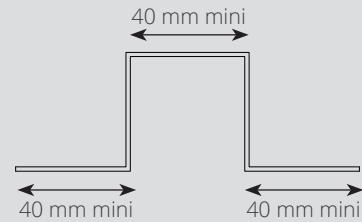
Metal framing «L»



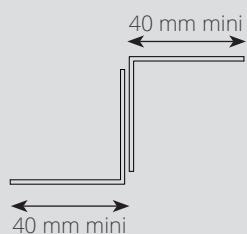
Metal framing «Z»



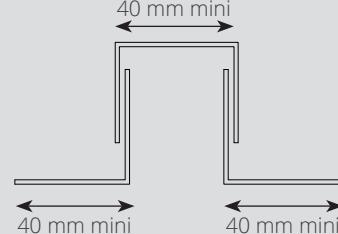
Metal framing «Ω»



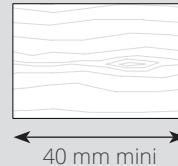
Ajustable metal framing «Z»



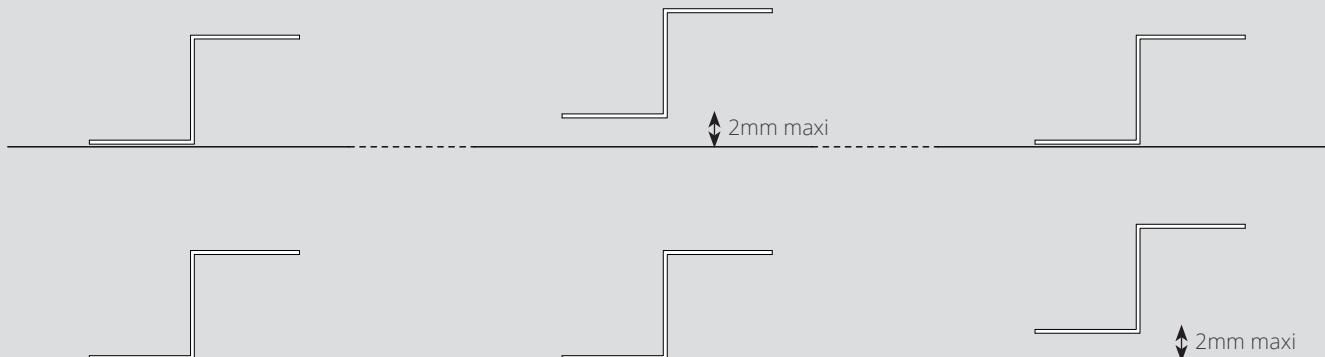
Ajustable metal framing «Ω»



Timber frame



FLATNESS OF SUPPORT

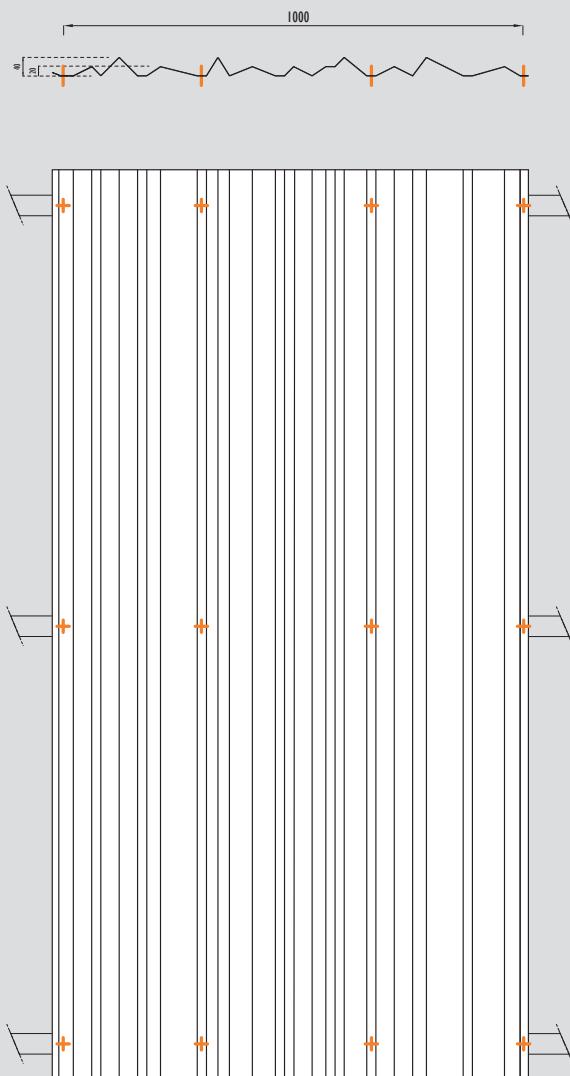


The secondary framing elements must be sized by the installation company. Metal framing should be at least 1.5mm thick.

The flatness of the support is essential when installing the panels.

Regardless of the type of secondary framework chosen (metal or wood), it must comply with a maximum permissible co-planarity of 2mm over three **supports**.

PISSAILLAS 1000®

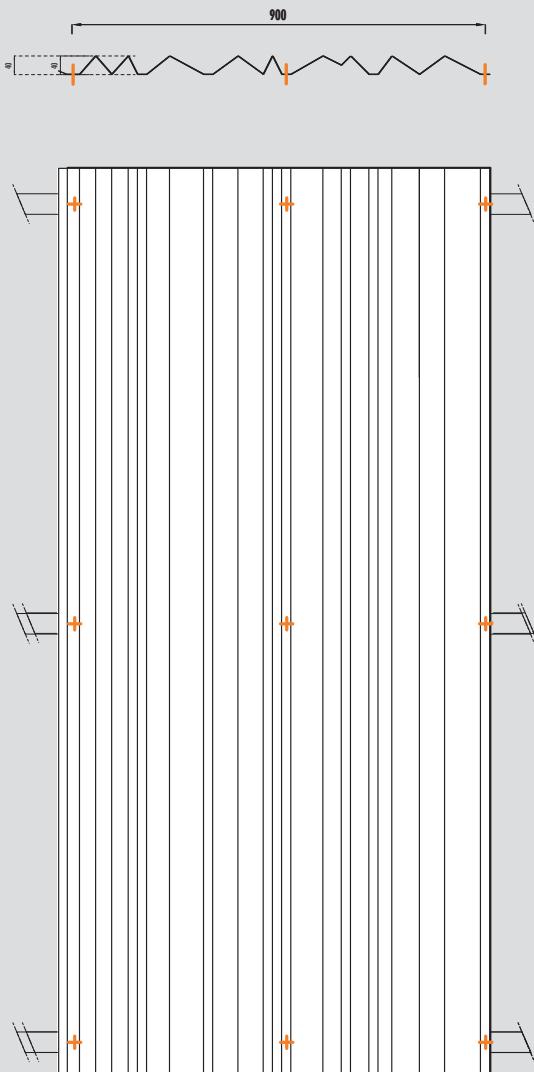


SCREWING PATTERN FOR GLACE® PANELS

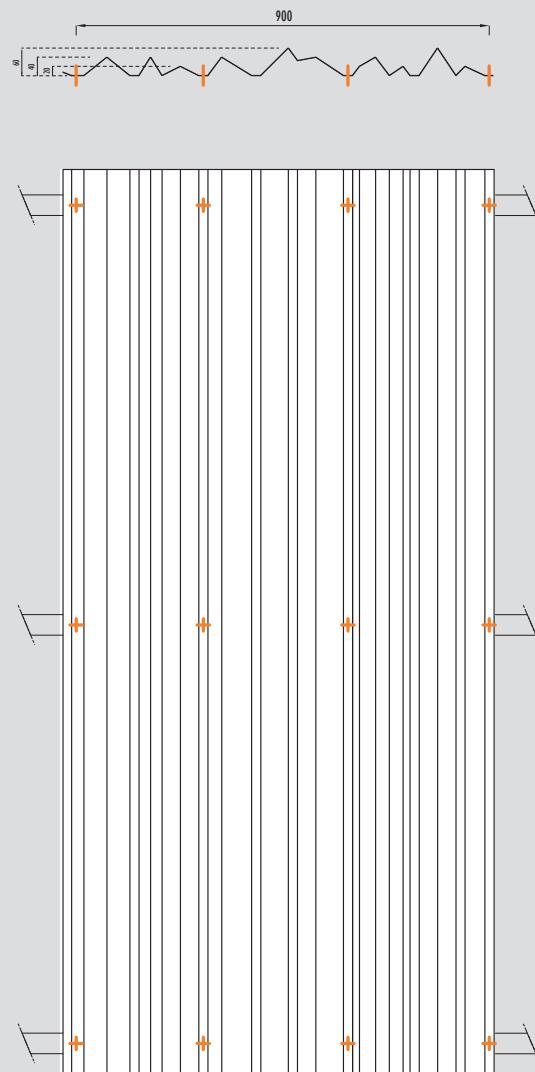
ATELIERS 3S offers you, for each panel model, a technical optimization with minimal aesthetic impact. By placing the screws as close as possible to the ribs, they are concealed by the shadow of the wave and are more discreet.

Particular attention must be paid to the tightening torque of screws located in flat areas to avoid any deformation of the facing.

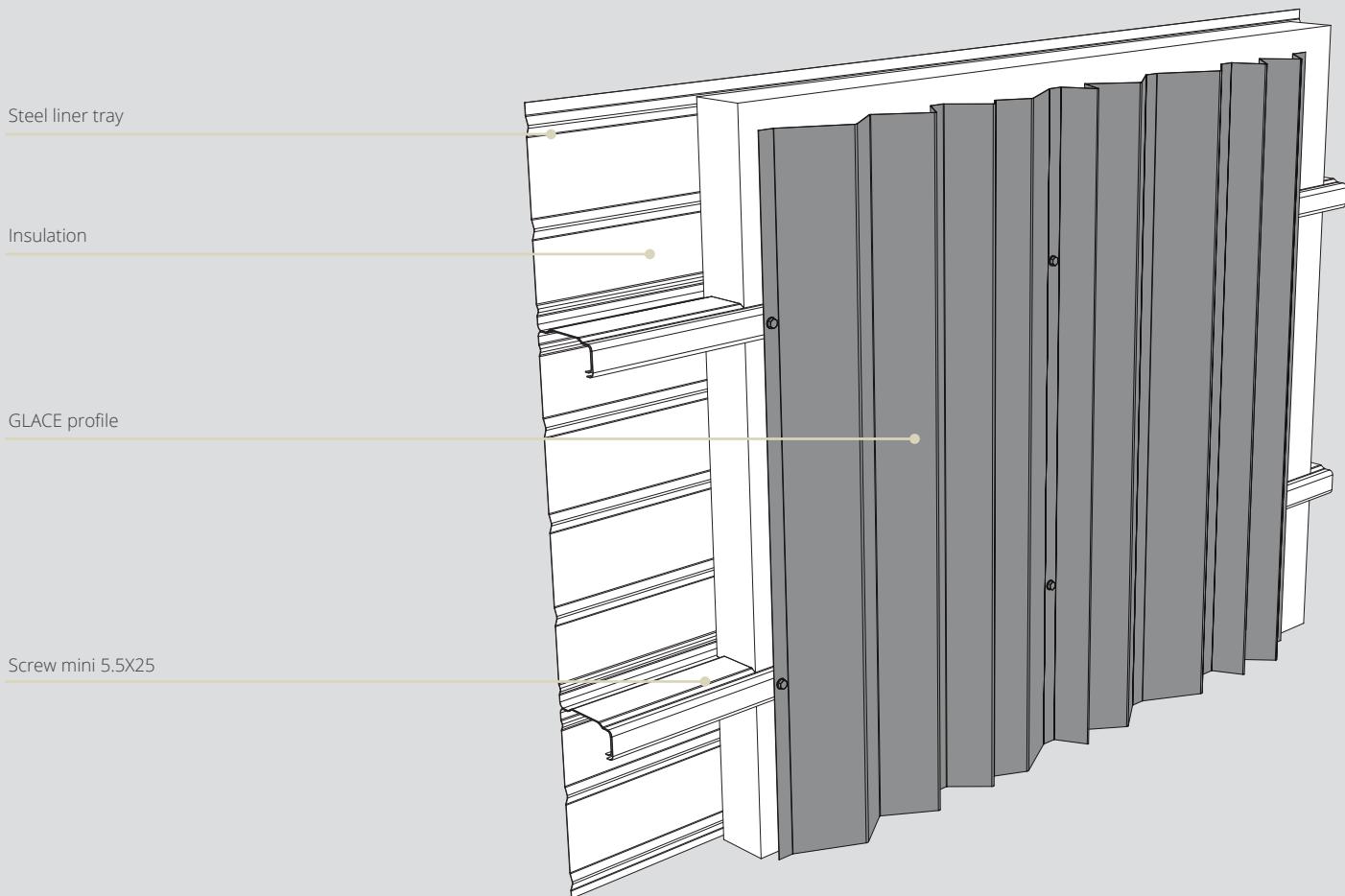
BOSSONS 900®



JORASSES 900®



DOUBLE-SKIN INSTALLATION



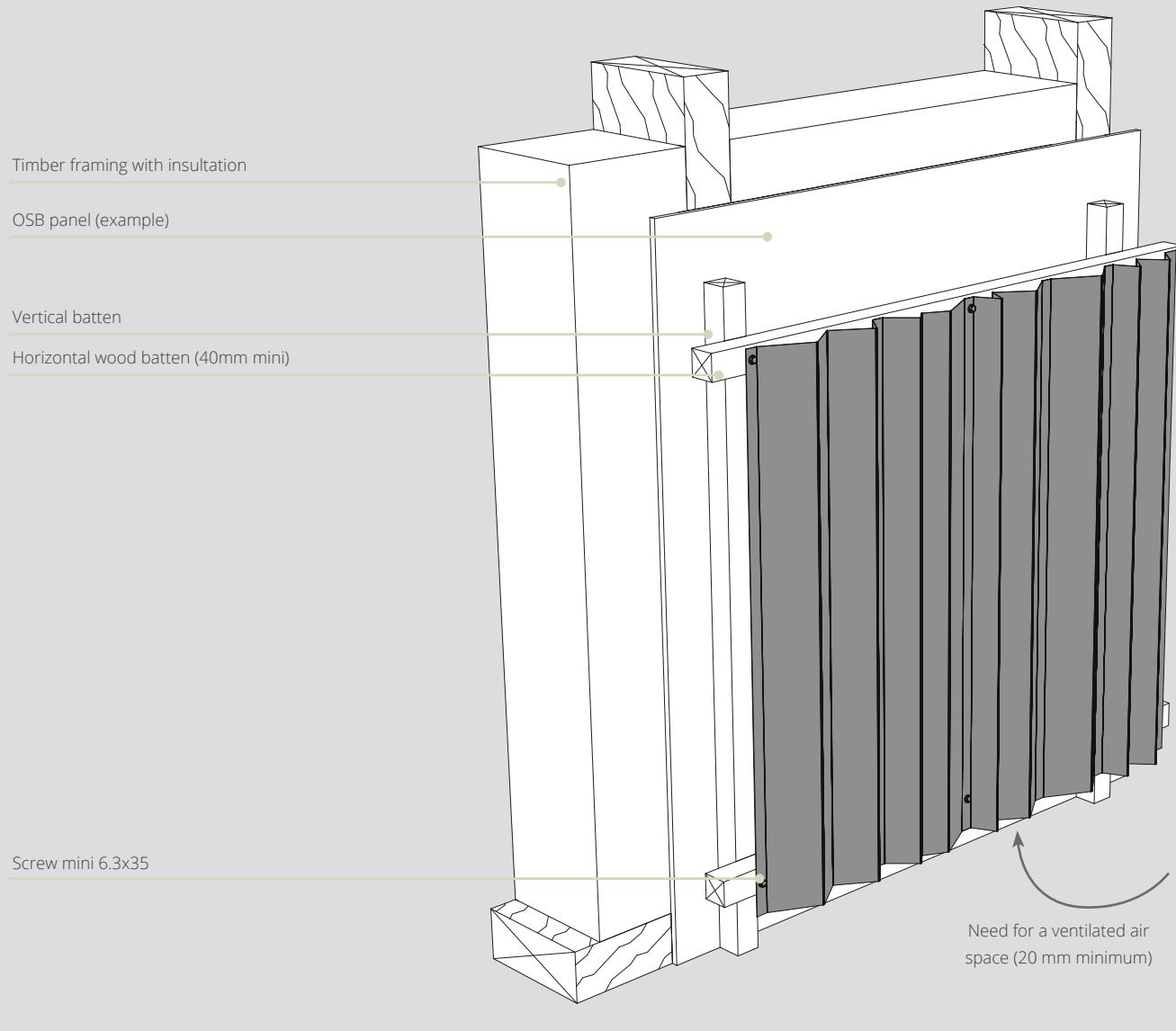
BUILDINGS WITH METAL FRAMING

GLACE is a traditional cladding system installed in accordance with the RAGE rules (French steel cladding installation recommendations). It is perfectly suited to double-skin installation.

The flatness of the support is very important for a quality finish, and an adjustable secondary framework is recommended for horizontal installation.

The sheets should be fixed in accordance with RAGE recommendations, using the appropriate screws and bolts according to the type of building.

TIMBER-FRAMED WALLS



TIMBER-FRAMED WALLS

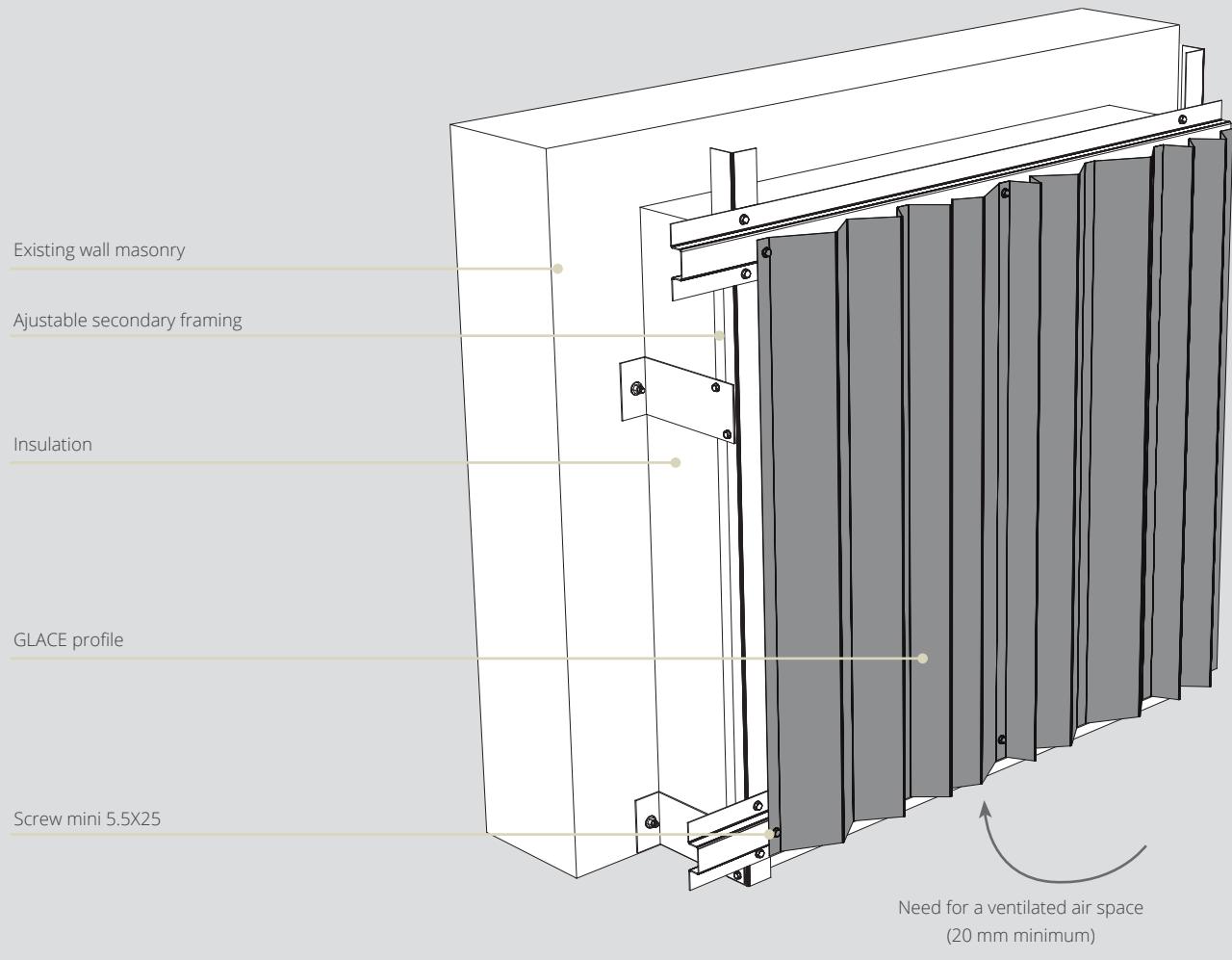
The framework and its installation must comply with Cahier CSTB 3316.

In the case of a timber frame, a ventilated air space must be provided.

GLACE cladding complies with RAGE rules and does not require an additional rain screen.

The flatness of the support is very important for a quality finish, and an adjustable secondary framework is recommended for horizontal installation.

EXTERNAL WALL INSULATION (EWI) ON MASONRY WALLS WITH METAL FRAMING



EXTERNAL WALL INSULATION RENOVATION

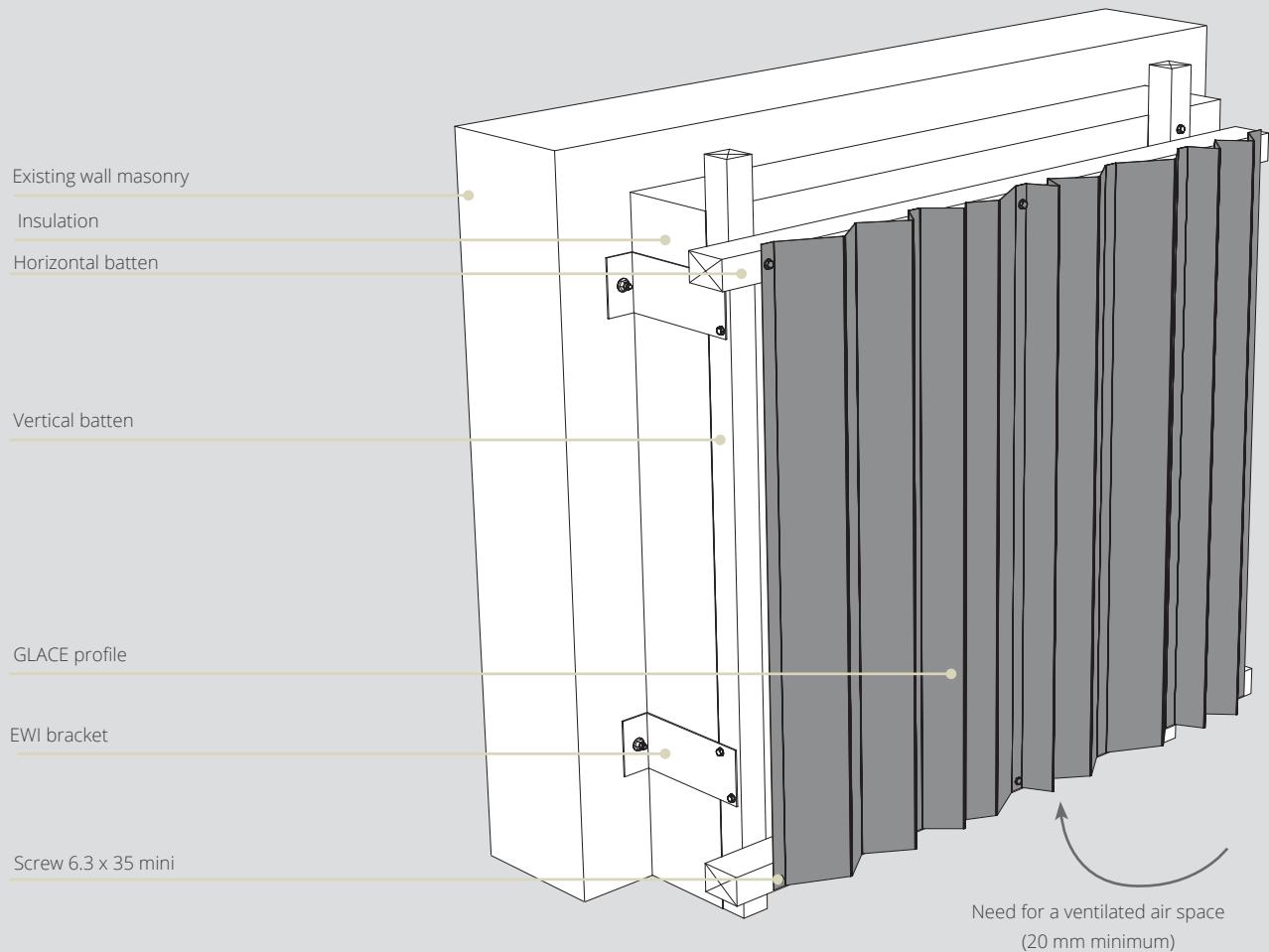
EXTERNAL WALL INSULATION RENOVATION

The GLACE range can be used in the construction or renovation of buildings with external wall insulation (EWI), as all the profiles in the range are suitable for this type of installation.

The framework and its installation must comply with CSTB Specification 3194. Load-bearing profiles must be fitted at the top and bottom of the cladding, and must be sized accordingly.

The flatness of the support is very important for a quality finish, and an adjustable secondary framework is recommended.

EXTERNAL WALL INSULATION (EWI) ON MASONRY WALLS WITH TIMBER FRAME



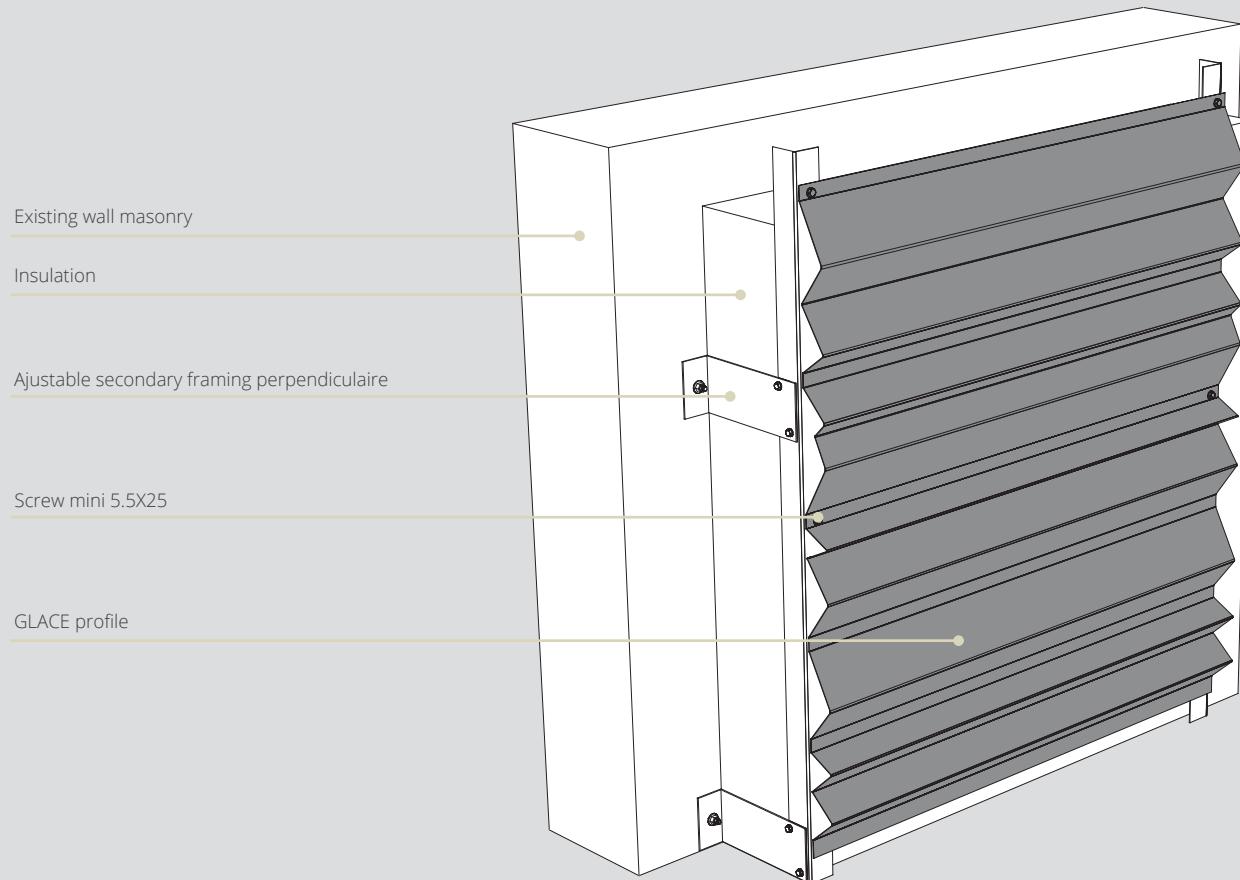
EXTERNAL WALL INSULATION RENOVATION

The flatness of the support is very important. Adjustable brackets for a quality finish, and an adjustable secondary framework is recommended.

The adjustable angle brackets ensure that the framework is perfectly flat.

The framework and its installation comply with CSTB Specification 3316.

EXTERNAL WALL INSULATION (EWI) ON MASONRY WALLS WITH METAL FRAMING / HORIZONTAL APPLICATION



HORIZONTAL INSTALLATION

GLACE range like any classical steel wall cladding can be installed horizontally.

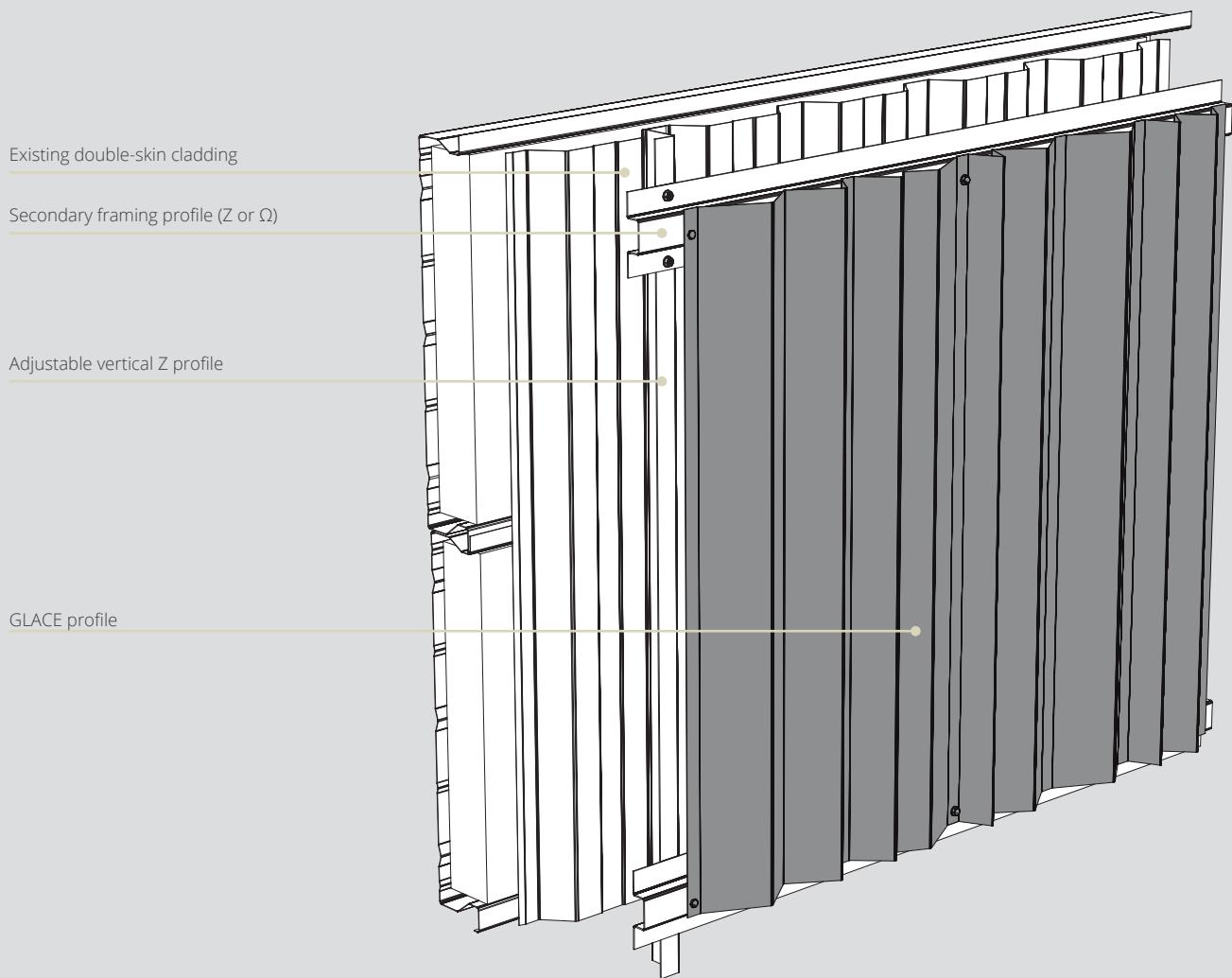
The installation must comply with the RAGE rules (French steel cladding installation recommendations). The layout must take into account the maximum length of the sheets: 8000mm. Specific finishing elements must be provided.

The cladding should be cleaned regularly with water to prevent the accumulation of dust on the horizontal parts.

The flatness of the support is very important for a quality finish, and an adjustable secondary framework is recommended for horizontal installation.

The sheets should be fixed using the appropriate screws and bolts according to the type of building and framing.

INSTALLATION ON EXISTING DOUBLE-SKIN CLADDING



RENOVATING A BUILDING WITHOUT REMOVING THE EXISTING CLADDING

The GLACE range can be installed in the renovation of buildings on existing wall cladding.

The flatness of the support is very important for a quality cladding installation, Adjustable accessories must be used.



FINISHING PROFILES



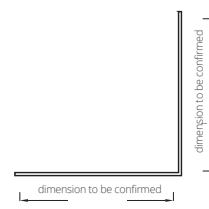
Beyond the aesthetic quality of its cladding panels, a successful metal facade requires precise and well-designed finishing profiles. ATELIER 3S takes particular care to offer discreet elements that connect with the styles of the associated cladding.

In these pages, you'll find a selection of models that are fully adaptable to the actual dimensions of your project.

No matter how precise your installation is, finishing profiles will always be custom-made elements. Please don't hesitate to provide us with your exact dimensions and any other installation drawings.

GLACE cladding has variable ribs heights, so it is recommended that the total depth of the cladding, it is recommended that the total depth of the cladding be taken into account for each finishing profiles design.

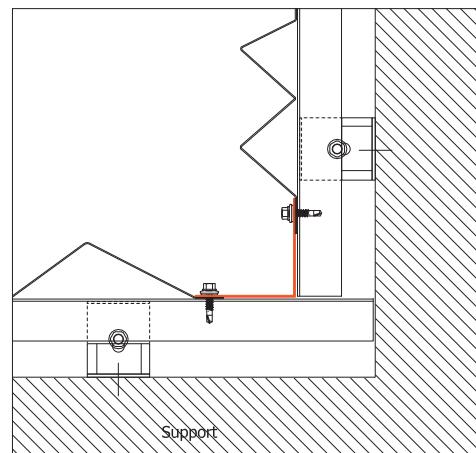
INSIDE CORNER



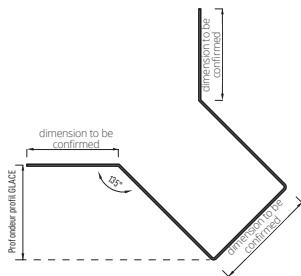
Lg : 4,0 m maxi
Th : 0.75 mm



VERTICAL APPLICATION



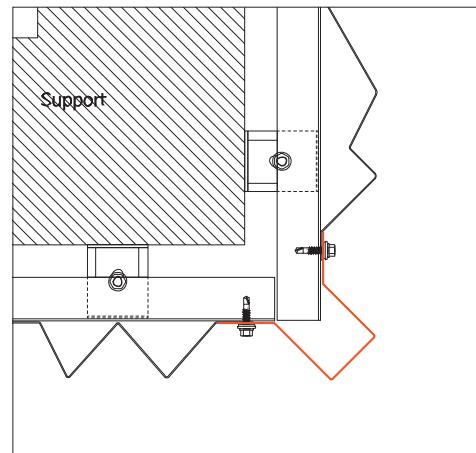
OUTSIDE CORNER



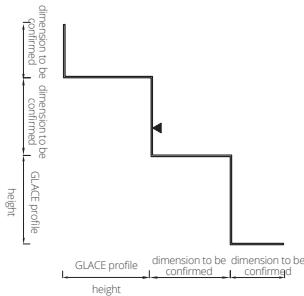
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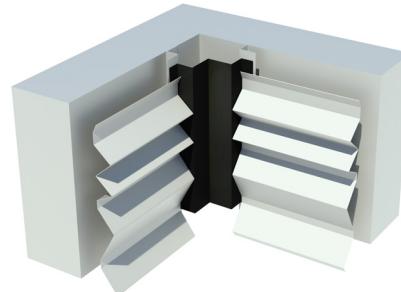
VERTICAL APPLICATION



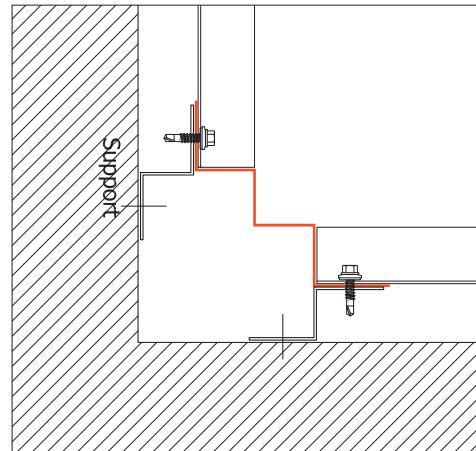
INSIDE CORNER



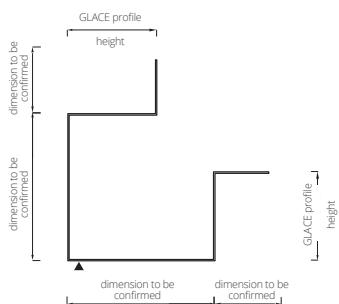
Lg : 4,0 m maxi
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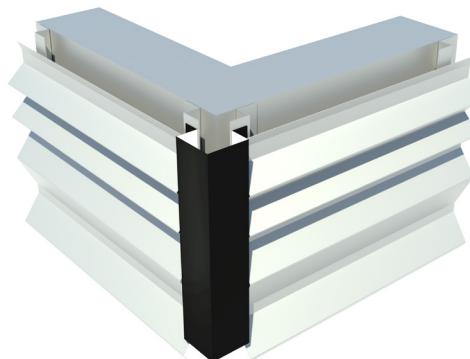
HORIZONTAL APPLICATION



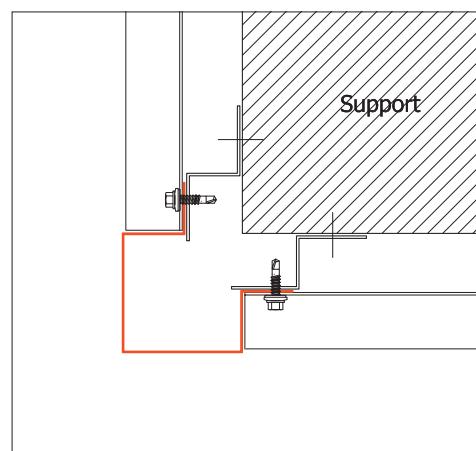
OUTSIDE CORNER



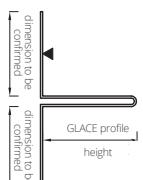
Lg : 4,0 m maxi
Th : 0.75 mm



HORIZONTAL APPLICATION



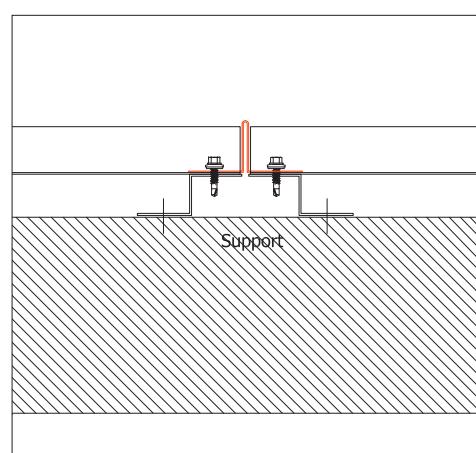
JUNCTION



Lg : 4,0 m maxi
Th : 0.75 mm

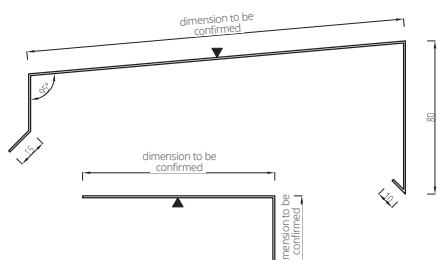


PIN JOINT HORIZONTAL APPLICATION

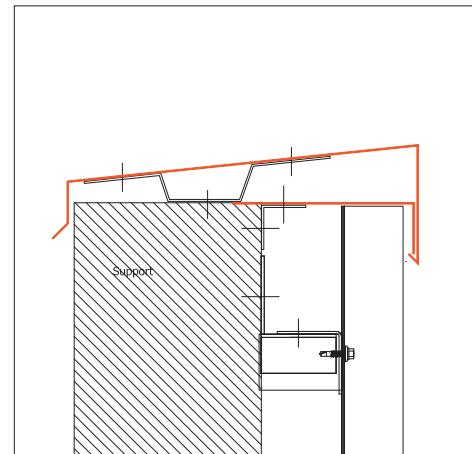


FACADE TOP

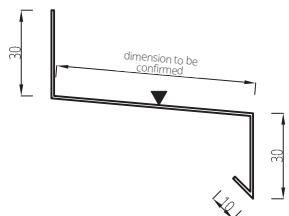
COPING



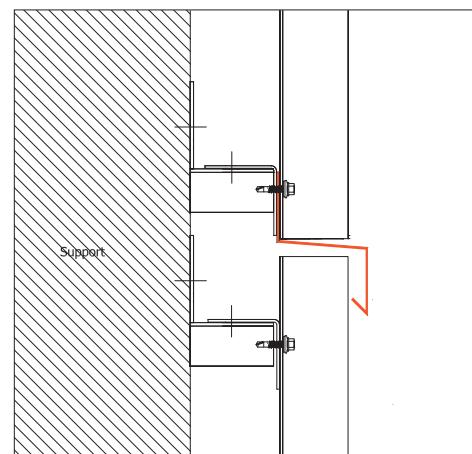
Lg : 4,0 m maxi
Th : 0,75 mm



JUNCTION

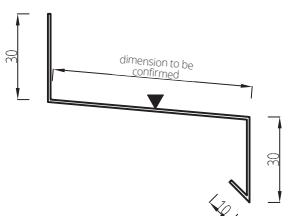
 DRIP EDGE
VERTICAL APPLICATION


Lg : 4,0 m maxi
Th : 0,75 mm

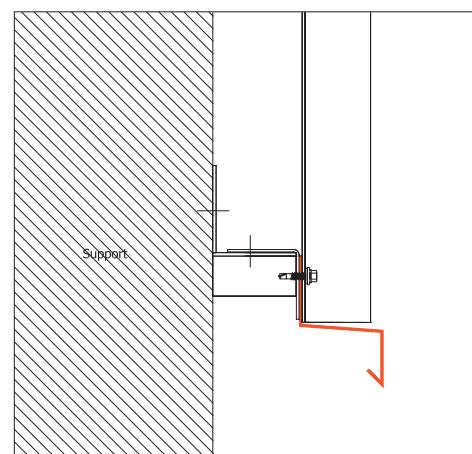


FACADE BOTTOM

DRIP

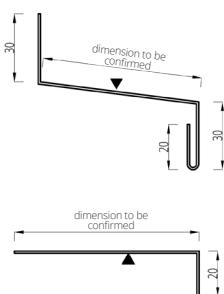


Lg : 4,0 m maxi
Th : 0,75 mm

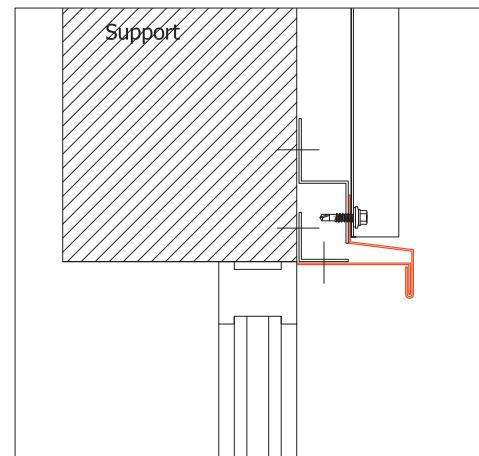


OPENING

LINTEL

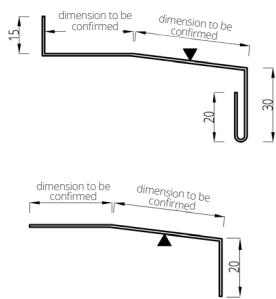


Lg : 4,0 m maxi
Th : 0,75 mm

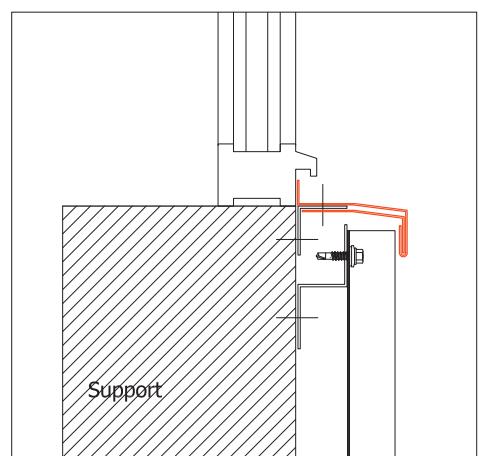


OPENING

SILL

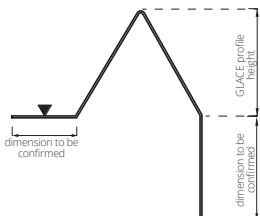


Lg : 4,0 m maxi
Th : 0,75 mm

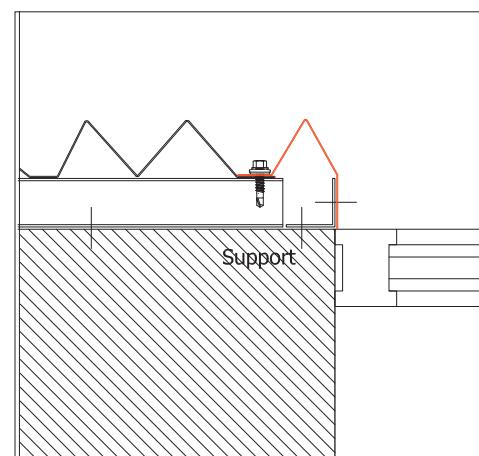
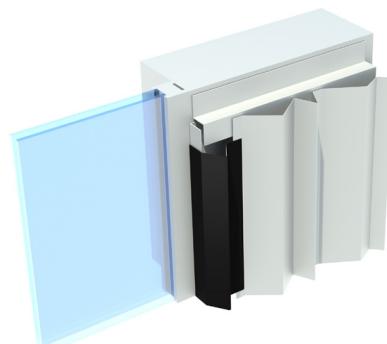


OPENING

JAMB



Lg : 4,0 m maxi
Th : 0,75 mm



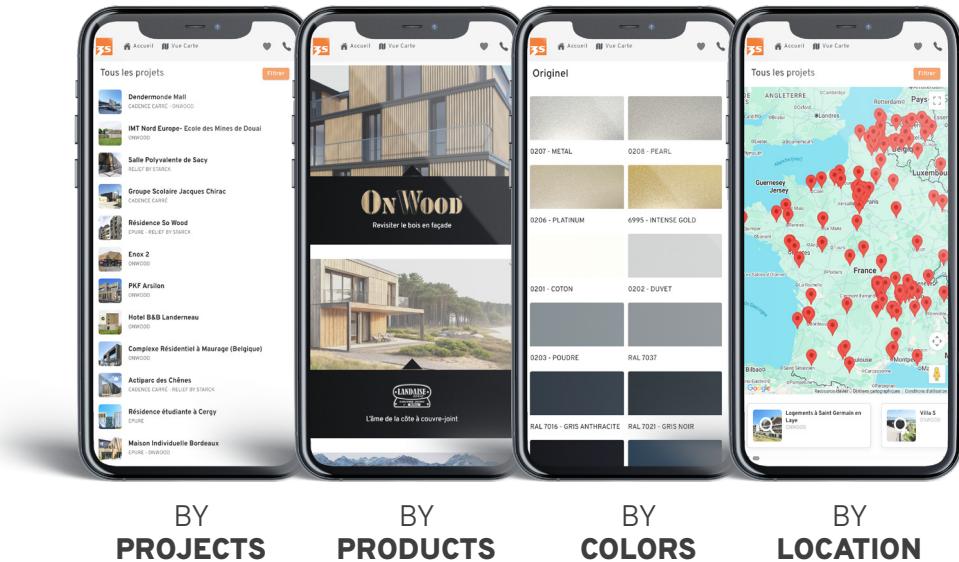


PROJECTS GALLERY

Your source of inspiration

An exclusive search experience,
available only on the **ATELIERS 3S** app.

Discover our projects from a new perspective

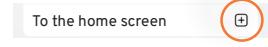


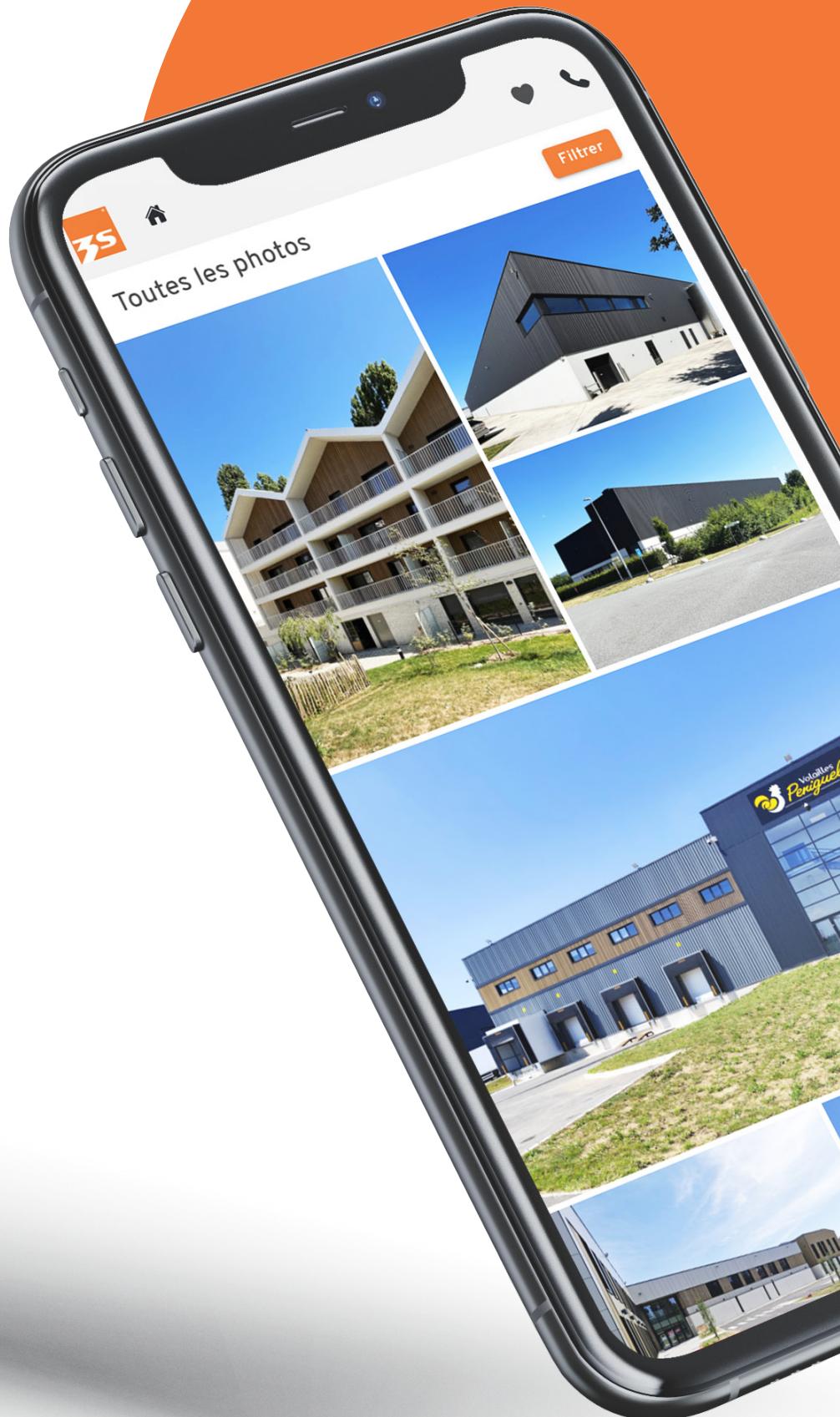
Tip to add the app directly
to your home screen
without going through the
Store:

1- At the bottom of your page click here:



2- Scroll and choose the option:







COLOR CHART

Colours and materials used

ORIGINAL

Exclusive, ultra resistant colours that meet the requirements of the 3S® range.

METALLIC



METAL 0207

35µm



PEARL 0208

35µm



PLATINUM 0206

35µm



INTENSE GOLD 6995

35µm



COPPER 0603

35µm

SATIN



COTTON 0201

35µm



RAL 5008 - OCEAN

25µm



DUVET 0202

35µm



RAL 7032 - SILEC GREY

35µm



POWDER 0203

35µm



RAL 7022 - EGGSHELL

35µm



RAL 7037

35µm



POP 0204

35µm



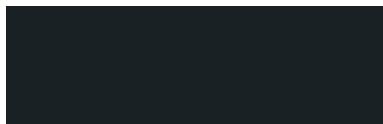
RAL 7016 - ANTHRACITE GREY

35µm



SPRING 0205

35µm



RAL 7021 - BLACK GREY

25µm



RAL 9005 - DEEP BLACK

35µm



Please contact us for further information on our RAL colour chart and our special custom-designed textured coatings.

Colours and materials used

MATERIALS

Coatings that are as fabulous as the materials.



OXYDE 0602 35µm



DARK BRONZE 0604 50µm



INTENSE GOLD 6995 35µm



COPPER 0603 35µm

ZINC SPIRIT

Deep matte and very fine texture for a true-to-life zinc effect.



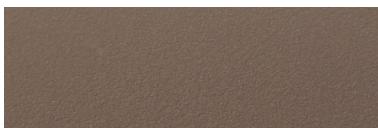
NERRO 0104 50µm



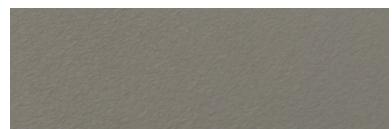
VINO 0106 50µm



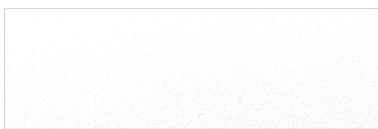
GALEO 0103 50µm



VOLCANO 0101 50µm



AZURO 0102 50µm



BIANCO 0105 50µm

ROUGH

Reveal the nobility of raw materials.



STAINLESS STEEL 0302
Shiny



SURFACE GRAIN 0301
Galvanized steel with high-precision grain

ONWOOD

True-to-life matte wood texture. Available in all wood finish or with optional black strips "Colorigami® Process".



SILVER TECK (BLACK BANDS) 0409 47µm



SILVER TECK (ALL WOOD) 0408 47µm



NATURAL OAK (BLACK BANDS) 0406 47µm
0416 (MIN)
0426 (MAX)



NATURAL OAK (ALL WOOD) 0403 47µm



HAZELNUT OAK (BLACK BANDS) 0405 47µm



HAZELNUT OAK (ALL WOOD) 0402 47µm



COFFEE OAK (BLACK BANDS) 0407 47µm



COFFEE OAK (ALL WOOD) 0404 47µm



- TECHNICAL DATASHEETS
- INSTALLATION INSTRUCTIONS
- GUIDES TO FINISHING FOLDS
- CCTP (SPECIAL TECHNICAL SPECIFICATIONS)
- FILES DWG, BIM, SKETCHUP
- ETC.

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www.ateliers3s.com



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