



RELIEF

BY
STARCK®



SUMMARY

RELIEF

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RELIEF

BY
STARCK®

RELIEF® RANGE

«The *new* RELIEF steel cladding is an *infinite construction game*...»



«Cladding, is a good idea... that's a few years old.

The people from Ateliers 3S came to see me. They asked me «what could we do?»

So we didn't change anything, neither the steel sheets nor the machines.

We changed the angle of view... The new Ateliers 3S cladding is an infinite construction game... By varying the impressions, the reliefs, the materials, the colours we have made like a Meccano construction game which is going to be an extraordinary tool for architects.»

Philippe Starck

Ateliers 3S has been designing and manufacturing steel cladding profiles for many years. Of course, we thought first of creating a range of metal cladding, both profiled and deep-drawn. But there's more.

*Let's **imagine** a game where every part is
compatible with all the others.*

So we designed and patented a screw and its nut.

It's just a detail. But it changes everything.

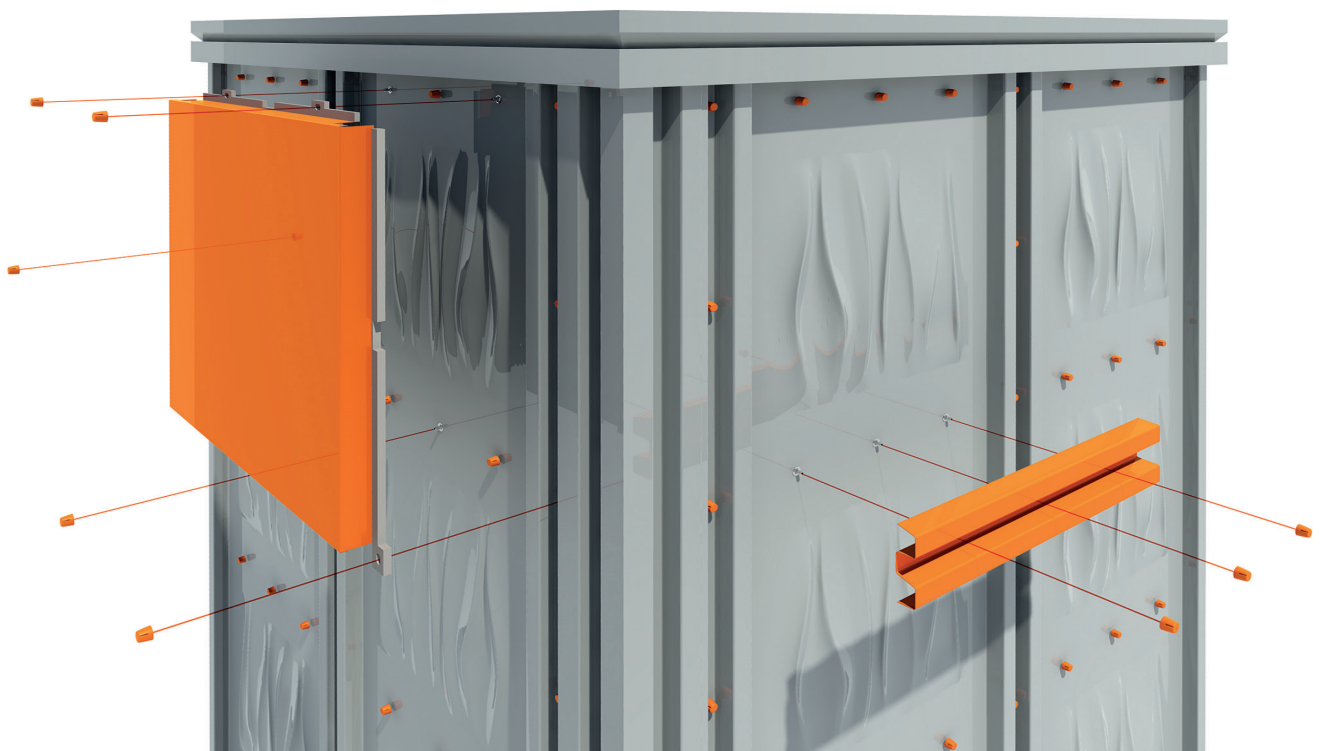


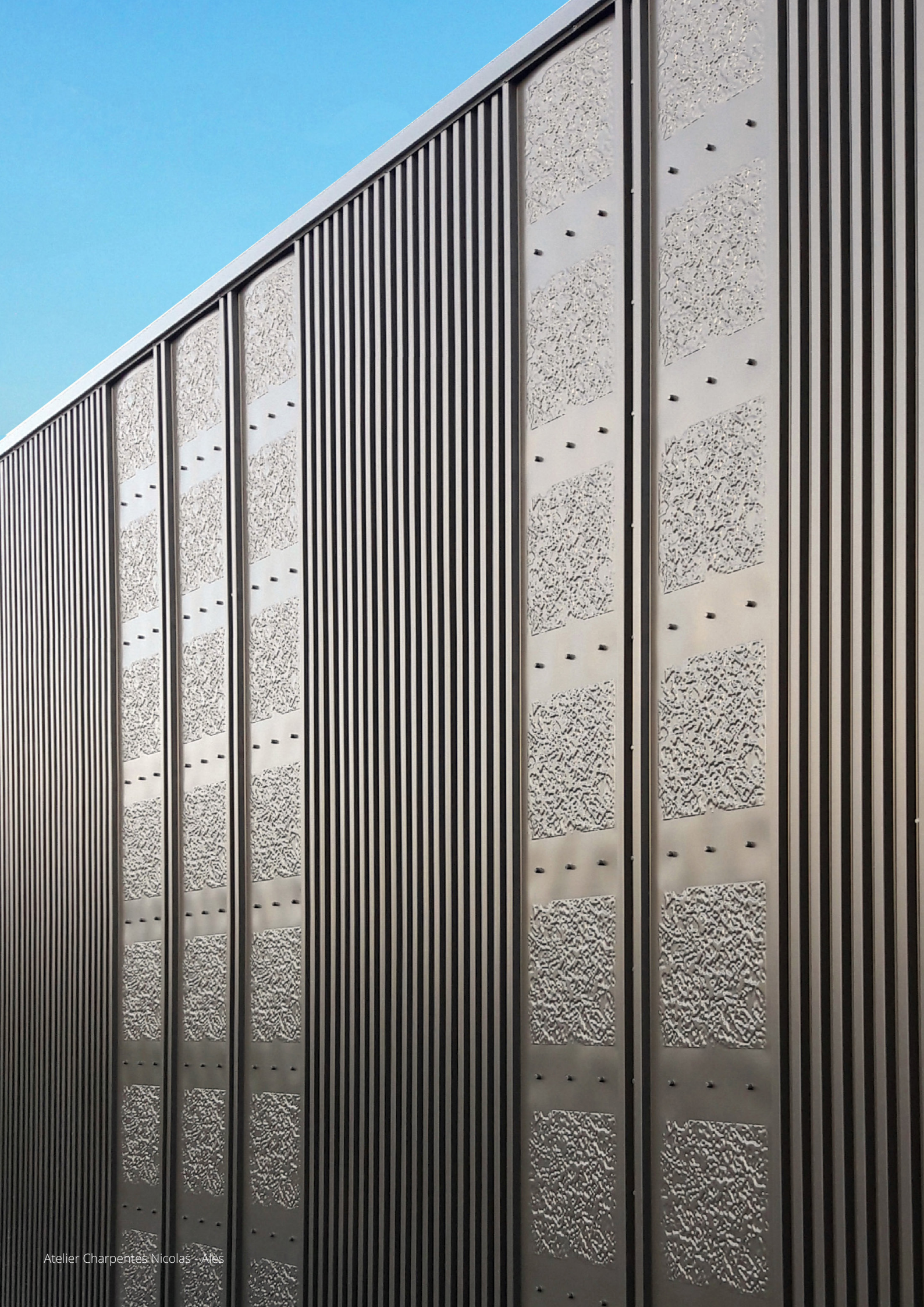
*«we have made like a **meccano**
which is going to be
an extraordinary **toll** for **architects**.»*

*Elements that are compatible with each other:
making a building stand out, making it unique,
becomes a game.*

With no additional drilling required, and thanks to our exclusive screw, it's now possible to change the facade while preserving the integrity of the building: perpendicular, screws, cassettes, a series of connectable éléments are added to the sheet metal, which becomes a support.

Better still, the facade can be customised and reversed without any major intervention. As your building's activity changes, its facade adapts immediately.





THE PROFILES

THE PROFILES

POINT®



BY
STARCK®

**BUREAU
VERITAS**

TEST REPORT

N° 2643717/1A

Flexion tests in accordance with NF P 34-503 of November 1995

Professional rules for the manufacture and installation of metal cladding of January 1981 - 2nd edition

Seismic validation: CSTB study report DCC / CLC_12_229_1 dated 25/02/2013

PROFILE POINT® 800

Almost giving a flat surface feeling, the discreet stamped circles of POINT® sheet create a play of relief with the fixings, evoking the riveted metal structures of the 19th century.

Steel S280 GD + Z	Thickness (mm)	Norm
Polyester 35μ THD	0.75	Coil coating EN 10169
Other coating	Upon request	

Thickness (mm)	Weight (kg/m²)
0.75	7.58

Profile height : 37 mm

Sheets length : 1300mm/mini 7300mm/maxi

FLATNESS CONQUEST

REGISTERED
DESIGNS

30-YEAR WARRANTY
FIRE : A1
IMPACT : Q4

TRADITIONAL
INSTALLATION
METHOD

MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

THE PROFILES



Bureaux G5 - Clermont-Ferrand (63) - ARCHI 3A

SPAN TABLES IN DAN/M², ACCORDING TO WIND LOAD

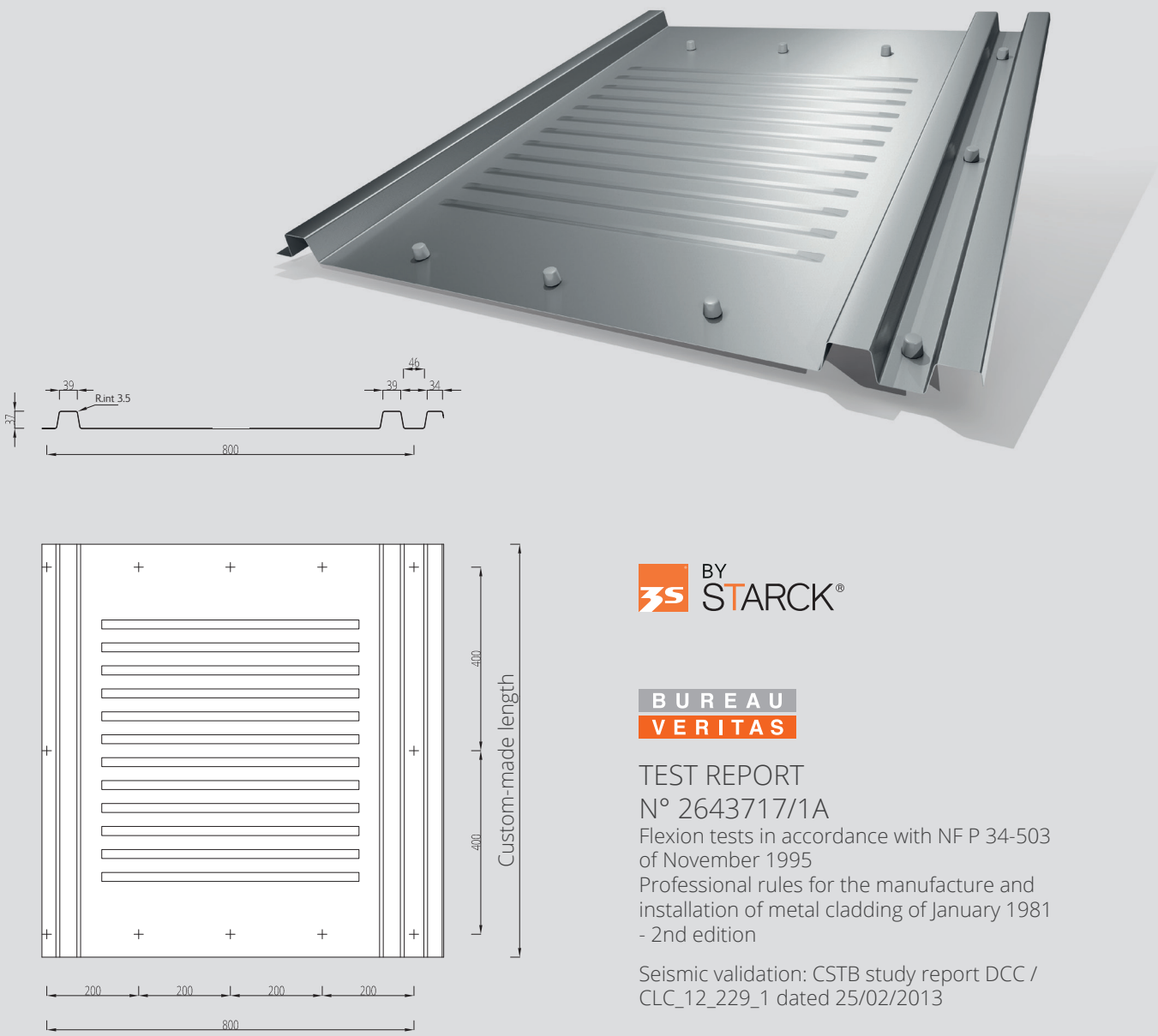
Limit deflection criterion taken into account: 1/200th according to French professional recommendations (RAGE) under wind load calculated as per NV 65

PRESSURE		Span (m)	SUCTION	
2 supports	3 supports		2 supports	3 supports
0.75	0.75		0.75	0.75
114	156	2.00	86	127
104	144	2.10	77	115
94	133	2.20	69	105
87	121	2.30	59	96
79	110	2.40	52	87
71	101	2.50	45	80
63	92	2.60	40	74
57	85	2.70	35	69
51	79	2.80	31	64
	74	2.90		59
	69	3.00		56

Nominal thickness (mm)

The profiles of the range RELIEF, sont des tôles non structurales selon la Norm NF EN 14782:2006, selon les Recommandations Professionnelles RAGE Bardage de juillet 2014 non destinées à recevoir des dispositifs d'ancrages EPI selon la Norm EN 795 ou ligne de vie.

PERSIENNE®



PROFILE PERSIENNE® 800

PERSIENNE® achieves what no other profiled sheet has ever done: it crosses lines. Playing on both horizontality and vertically, it respects the perspectives of the project.

Steel S280 GD + Z	Thickness (mm)	Norm
Polyester 35µ THD	0.75	Coil coating EN 10169
Other coating	Upon request	

Thickness (mm)	Weight (kg/m²)
0.75	7.58

Profile height : 37 mm

Sheets length : 1300mm/mini 7300mm/maxi

CROSSING LINES

REGISTERED DESIGNS

30-YEAR WARRANTY
FIRE : A1
IMPACT : Q4

TRADITIONAL
INSTALLATION
METHOD

MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
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ON OUR WEBSITE

THE PROFILES



Memphis Coffee - Clermont-Ferrand (63) - ARCHI 3A

SPAN TABLES IN DAN/M², ACCORDING TO WIND LOAD

Limit deflection criterion taken into account: 1/200th according to French professional recommendations (RAGE) under wind load calculated as per NV 65

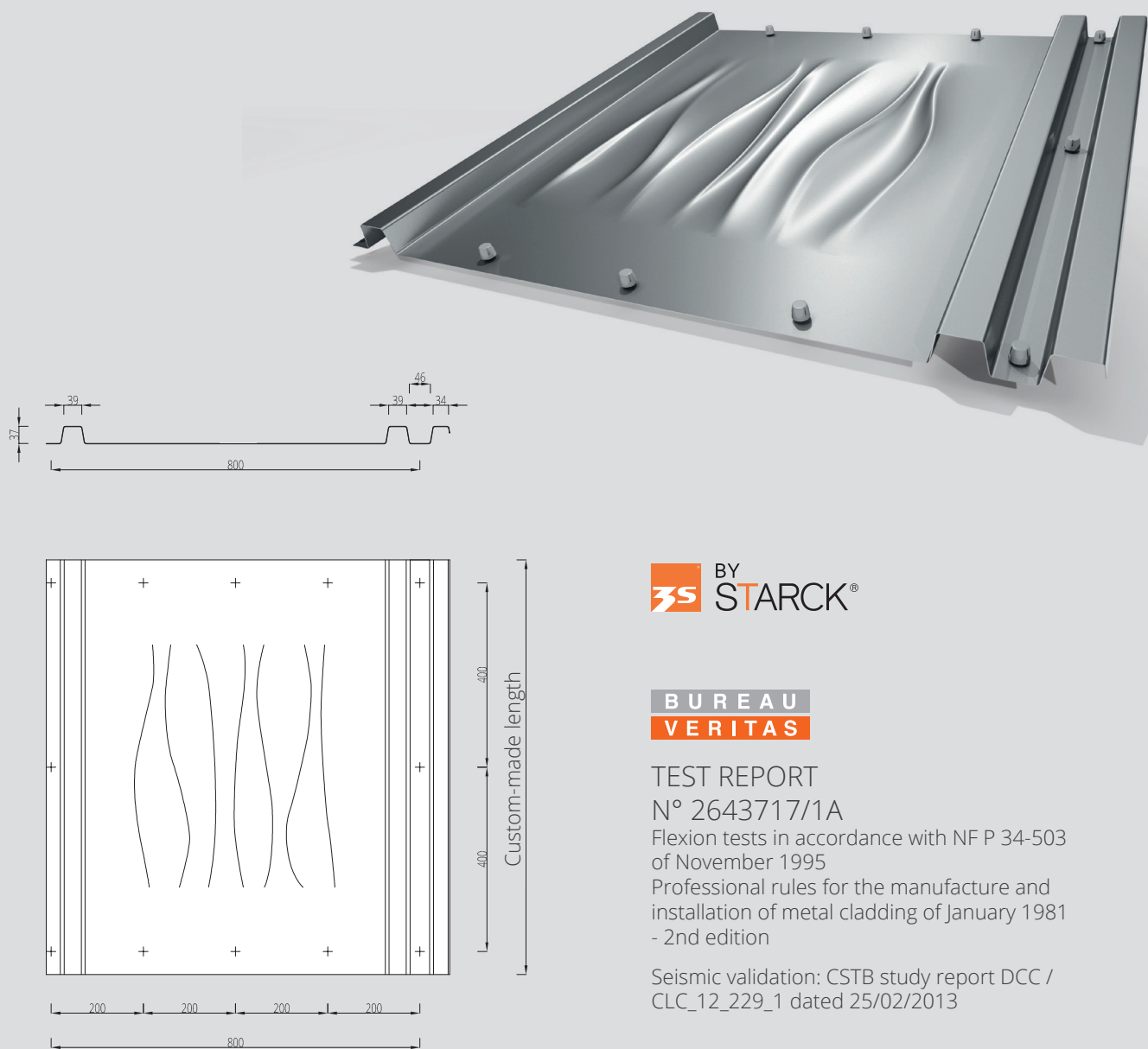
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PRESSURE		Span (m)	SUCTION	
2 supports	3 supports		2 supports	3 supports
0.75	0.75	m	0.75	0.75
114	156	2.00	86	127
104	144	2.10	77	115
94	133	2.20	69	105
87	121	2.30	59	96
79	110	2.40	52	87
71	101	2.50	45	80
63	92	2.60	40	74
57	85	2.70	35	69
51	79	2.80	31	64
	74	2.90		59
	69	3.00		56

Nominal thickness (mm)

THE PROFILES

VÉGÉTAL®



BY
STARCK®

**BUREAU
VERITAS**

TEST REPORT

N° 2643717/1A

Flexion tests in accordance with NF P 34-503
of November 1995

Professional rules for the manufacture and
installation of metal cladding of January 1981
- 2nd edition

Seismic validation: CSTB study report DCC /
CLC_12_229_1 dated 25/02/2013

PROFILE VÉGÉTAL® 800

ORGANIC IN SEARCH OF METALLIC

Free and alive, the relief of VÉGÉTAL® profile undulates, stretches and tightens, revealing its folds and creases. The profile plays with the light of the sun, changing throughout the day. Its organic design brings the metal to life.

Steel S280 GD + Z	Thickness (mm)	Norm
Polyester 35µ THD	0.75	Coil coating EN 10169
Other coating	Upon request	

Thickness (mm)	Weight (kg/m²)
0.75	7.58

Profile height : 37 mm

Sheets length : 1300mm/mini 7300mm/maxi

REGISTERED
DESIGNS

30-YEAR WARRANTY
FIRE : A1
IMPACT : Q4

TRADITIONAL
INSTALLATION
METHOD

MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

THE PROFILES



ALPBOX - Aime (73) - Atelier d'Architecture Maironi

SPAN TABLES IN DAN/M², ACCORDING TO WIND LOAD

Limit deflection criterion taken into account: 1/200th according to French professional recommendations (RAGE) under wind load calculated as per NV 65

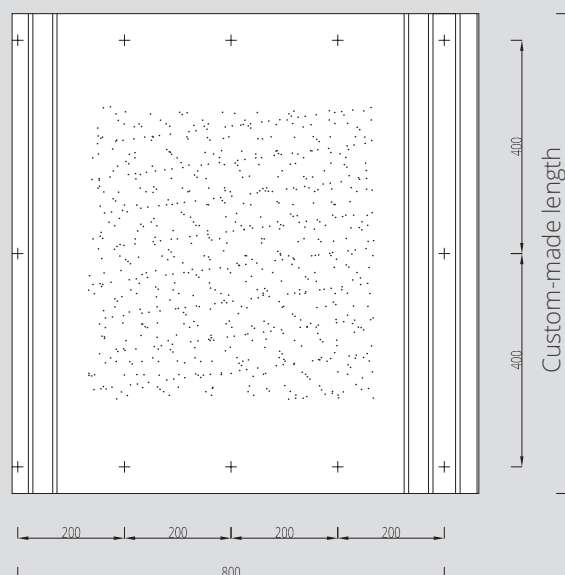
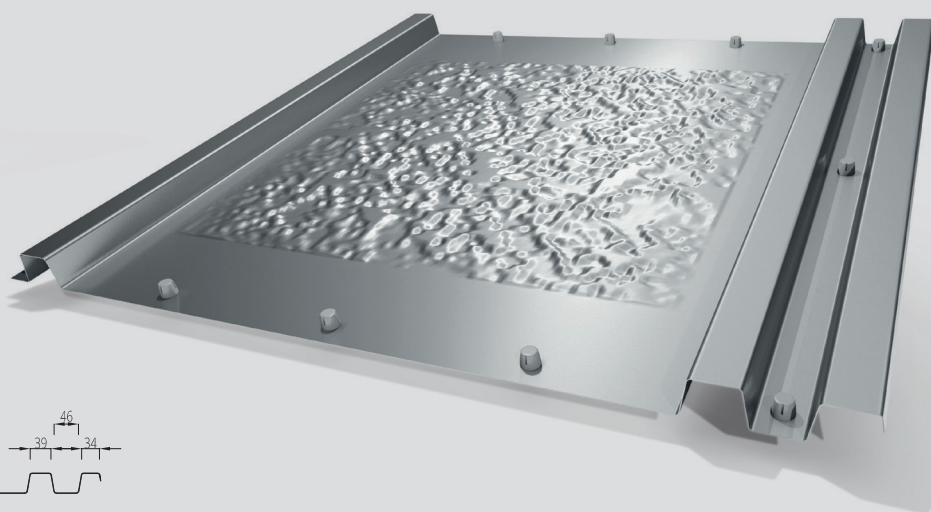
PRESSURE		Span (m)	SUCTION	
2 supports	3 supports		2 supports	3 supports
0.75	0.75		0.75	0.75
114	156	2.00	86	127
104	144	2.10	77	115
94	133	2.20	69	105
87	121	2.30	59	96
79	110	2.40	52	87
71	101	2.50	45	80
63	92	2.60	40	74
57	85	2.70	35	69
51	79	2.80	31	64
	74	2.90		59
	69	3.00		56

Nominal thickness (mm)

The profiles of the range RELIEF, sont des tôles non structurales selon la Norm NF EN 14782:2006, selon les Recommandations Professionnelles RAGE Bardage de juillet 2014 non destinées à recevoir des dispositifs d'ancrages EPI selon la Norm EN 795 ou l'ligne de vie.

THE PROFILES

ROCHER®



BY
STARCK®

**BUREAU
VERITAS**

TEST REPORT

N° 2643717/1A

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Professional rules for the manufacture and
installation of metal cladding of January 1981
- 2nd edition

Seismic validation: CSTB study report DCC /
CLC_12_229_1 dated 25/02/2013

PROFILE ROCHER® 800

Sculpted from metal as if carved from stone, ROCHER® profile brings a sense of solidity. By playing with the light, its profile becomes precious with intense reflections.

Steel S280 GD + Z	Thickness (mm)	Norm
Polyester 35μ THD	0.75	Coil coating EN 10169
Other coating	Upon request	

Thickness (mm)	Weight (kg/m²)
0.75	7.58

Profile height : 37 mm

Sheets length : 1300mm/mini 7300mm/maxi

REGISTERED
DESIGNS

30-YEAR WARRANTY
FIRE : A1
IMPACT : Q4

TRADITIONAL
INSTALLATION
METHOD

MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

THE PROFILES



Bâtiment commercial - Alès (30) - Ateliers Charpentes Nicolas

SPAN TABLES IN DAN/M², ACCORDING TO WIND LOAD

Limit deflection criterion taken into account: 1/200th according to French professional recommendations (RAGE) under wind load calculated as per NV 65

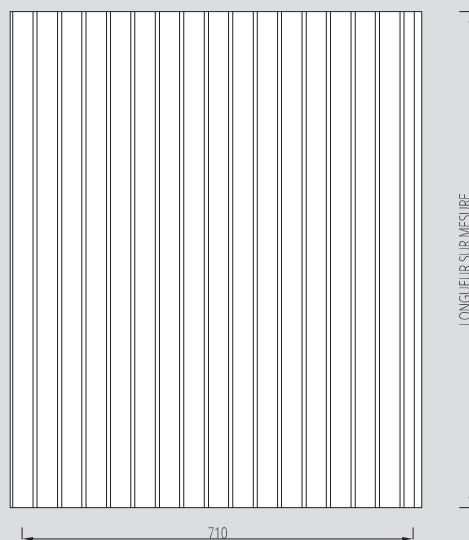
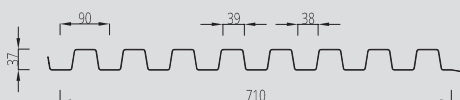
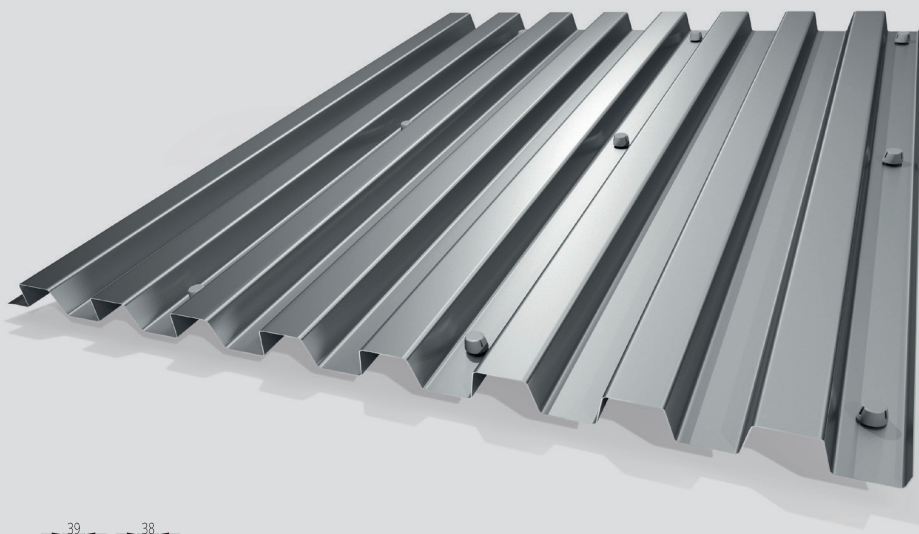
The profiles of the range RELIEF, sont des tôles non structurales selon la Norm NF EN 14782:2006, selon les Recommandations Professionnelles RAGE Bardage de juillet 2014 non destinées à recevoir des dispositifs d'ancrages EPI selon la Norm EN 795 ou ligne de vie.

PRESSURE		Span (m)	SUCTION	
2 supports	3 supports		2 supports	3 supports
0.75	0.75		0.75	0.75
114	156	2.00	86	127
104	144	2.10	77	115
94	133	2.20	69	105
87	121	2.30	59	96
79	110	2.40	52	87
71	101	2.50	45	80
63	92	2.60	40	74
57	85	2.70	35	69
51	79	2.80	31	64
	74	2.90		59
	69	3.00		56

Nominal thickness (mm)

THE PROFILES

NANO FAÇADE®



Seismic validation: CSTB study report
DCC / CLC_12_229_1 dated 25/02/2013

NANO® 710

With its traditional design, NANO® cultivates small scale. As deep as it is wide, its ribs offer deep shadow lines. From a distance, the lines disappear, giving the impression of a smooth surface. It's a great way to play with perception and scale.

Material	Thickness (mm)	Weight (kg/m ²)
Steel S280 GD + Z275	0.75	10.12

Profile height : 37 mm

Sheets length : 1300mm/maxi

MINIMALIST RIBS AND DEEP SHADOW LINES

Coating	Norm
Hot dip galvanized	NF EN 10346
Polyester 35μ THD	Coil coating EN 10169
Polyuréthane 50μ	Coil coating EN 10169
Postlaquage 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

THE PROFILES



Résidence So Wood - Montpellier (34) - A+ARCHI & HSP ARCHI

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

PRESSURE		Span (m)	SUCTION	
2 supports	3 supports		2 supports	3 supports
0.75	0.75		0.75	0.75
1790	1206	1,00	1789	1206
1243	914	1,20	1242	914
913	718	1,40	913	718
672	580	1,60	675	580
474	479	1,80	476	479
346	402	2,00	348	402
261	343	2,20	262	343
201	296	2,40	202	296
159	258	2,60	159	258
127	227	2,80	128	227
104	199	3,00	104	199



Calculation
according to
Eurocode III
Part 1.3 (EN-
1993)

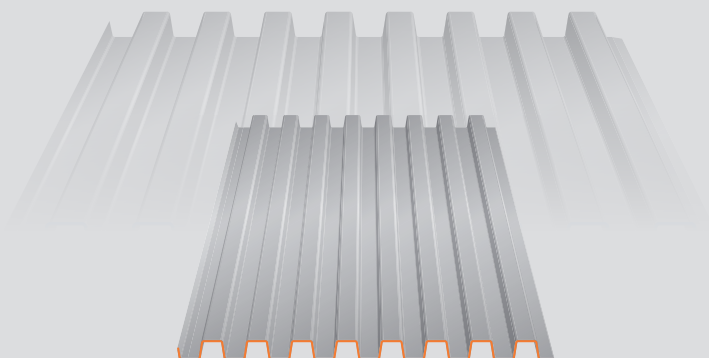
Nominal thickness (mm)

NANO MINI 360



Toys

THE WORLD OF  AT **1/2** SCALE



PROFILE NANO MINI 360

Material	Thickness (mm)	Weight (kg/m ²)
Steel S280 GD + Z275	0.63	8.31

Profile height : 18 mm

Sheets length : 6000mm maximum

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

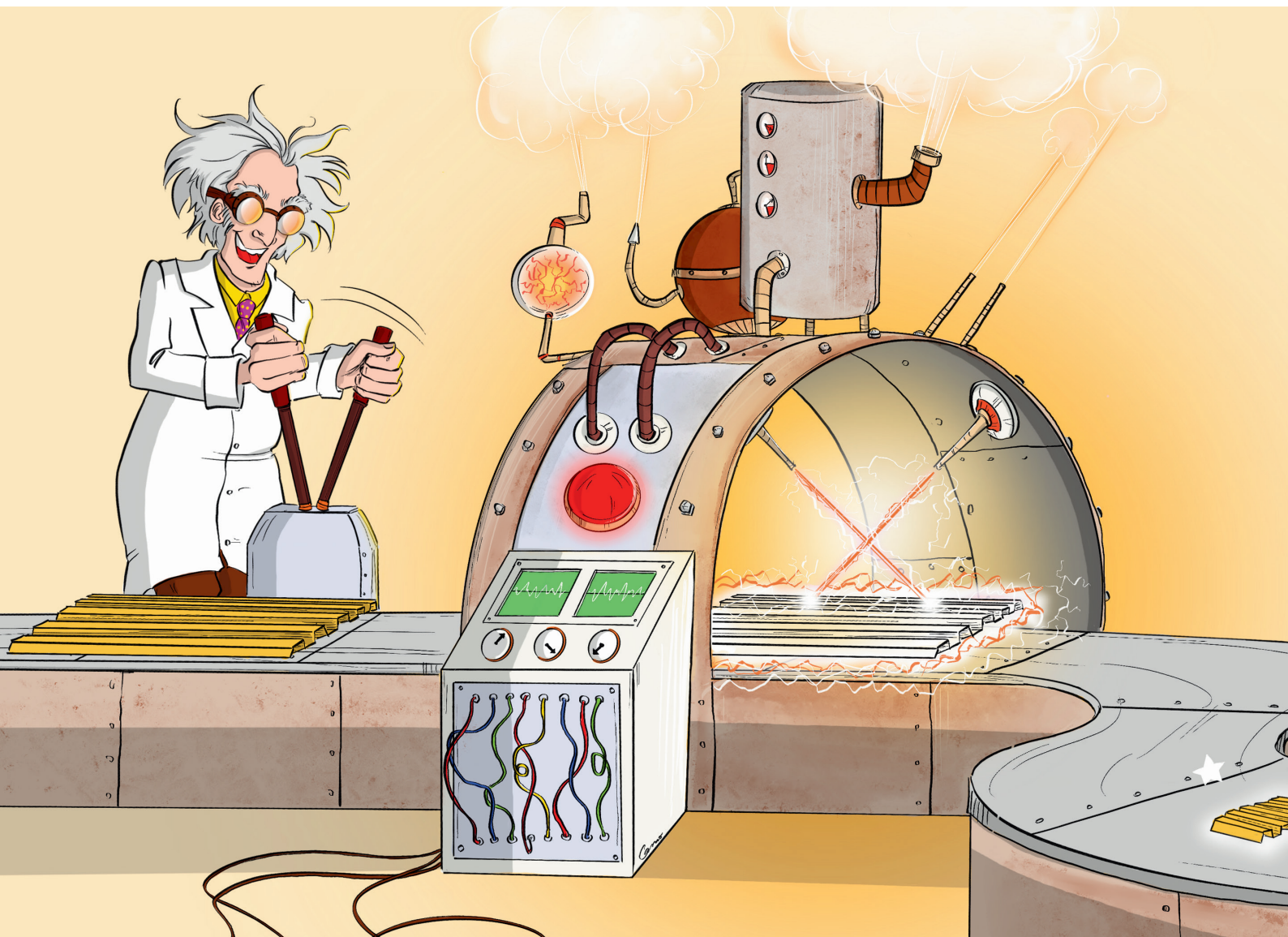
FIRE : A1
IMPACT : Q4

TRADITIONAL
INSTALLATION
METHOD
RÈGLES RAGE

MADE IN FRANCE

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SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

NOS PAREMENTS ICONIQUES
EN SIGNATURE **Mini**[®]



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

PRESSURE		Span (m)	SUCTION	
2 supports	3 supports		2 supports	3 supports
572	925	1.0	572	875
331	642	1.2	331	608
209	472	1.4	209	447
140	361	1.6	140	342
98	255	1.8	98	255
72	186	2.0	72	186
54	140	2.2	54	140
41	108	2.4	41	108
33	85	2.6	33	85
26	68	2.8	26	68
21	55	3.0	21	55

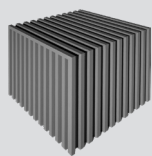


Calculation according
to Eurocode III Part
1.3 (EN-1993)

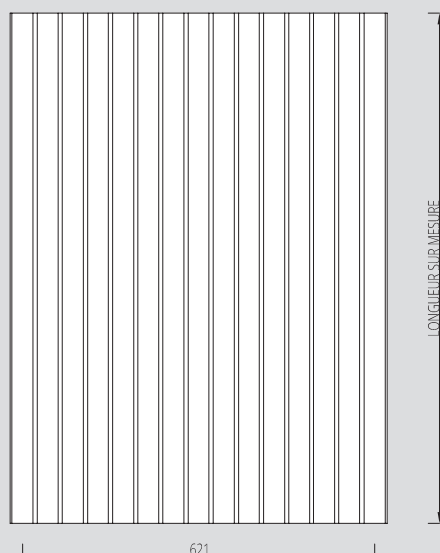
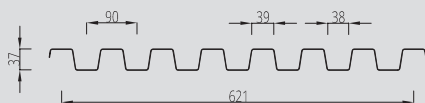
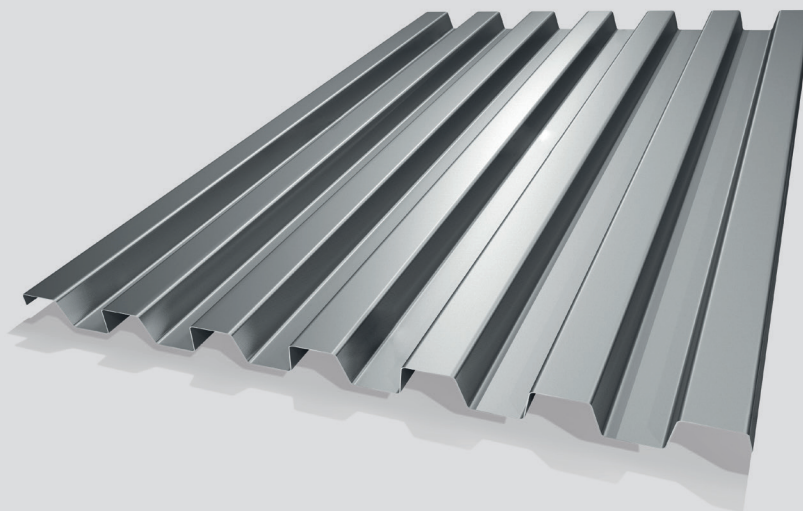
Technical information obtained
according to installation
requirements for metal cladding
from July 2014.

Nominal thickness (mm)

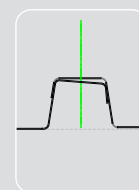
NANO® ROOF



NANO CONCEPT
MONOLITHE®



BY
STARCK®



over-lap detail

NANO® C 621

L'ESTHÉTIQUE DE LA FAÇADE ADAPTÉE À LA TOITURE

Material	Thickness (mm)	Weight (kg/m ²)
Steel S280 GD + Z275	0.75	10.26

Profile height : 37 mm

Sheets length : 1300mm/mini 7300mm/maxi

Coating	Norm
Hot dip galvanized	NF EN 10346
Polyester 35μ THD	Coil coating EN 10169
Polyuréthane 50μ	Coil coating EN 10169
Postlaquage 60μ	
Other coating	Upon request

REGISTERED
DESIGNS

30-YEAR
WARRANTY

FIRE : A1
IMPACT : Q4

TRADITIONAL
INSTALLATION
METHOD
RÈGLES RAGE

MADE IN FRANCE

DWG, BIM,
SKETCHUP FILES
TO DOWNLOAD
ON OUR WEBSITE

THE PROFILES



Foyer Les Alouettes - Avermes (03) - Mètre Carré



EUROCODES SPAN TABLES

CONFORM TO **DTU 40.35**

NANO® C 621

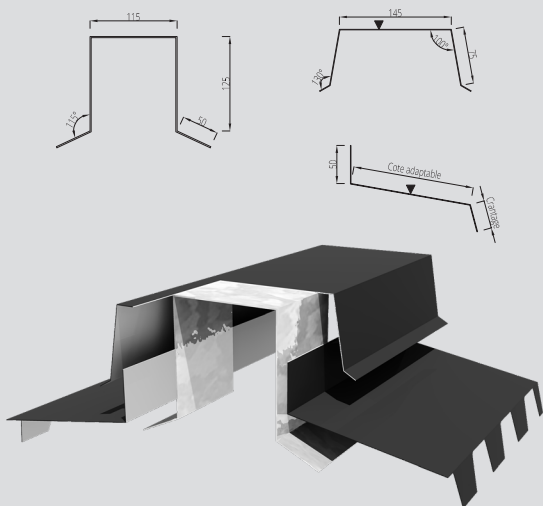
Load kN/m ²	SPANS					
	2 supports		3 supports		4 supports et plus	
	Descending loads	Ascending loads	Descending loads	Ascending loads	Descending loads	Ascending loads
0,50	2,85	3,75	3,60	3,60	3,55	3,60
0,75	2,55	3,75	3,45	3,60	3,20	3,60
1,00	2,35	3,75	3,20	3,60	2,90	3,60
1,25	2,20	3,60	2,95	3,25	2,70	3,55
1,50	2,05	3,25	2,80	2,90	2,55	3,15
1,75	1,95	3,00	2,65	2,65	2,45	2,90
2,00	1,90	2,80	2,45	2,45	2,35	2,65
2,25	1,80	2,65	2,30	2,30	2,25	2,45
2,50	1,75	2,50	2,15	2,15	2,20	2,30

The NANO ROOF metal sheet is a non-structural sheet 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.

FINISHING PROFILES NANO® COPENING

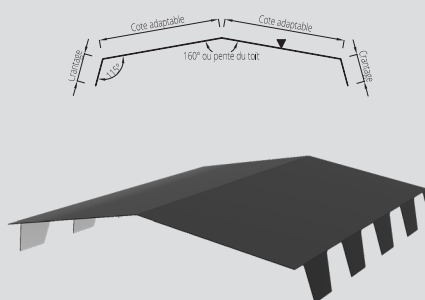
DOUBLE RIDGE CAP

Ventilated roof



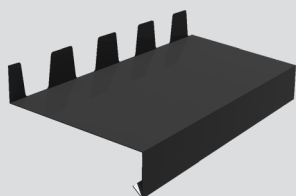
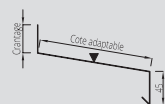
Toothed and ventilated double ridge cap

Non ventilated roof



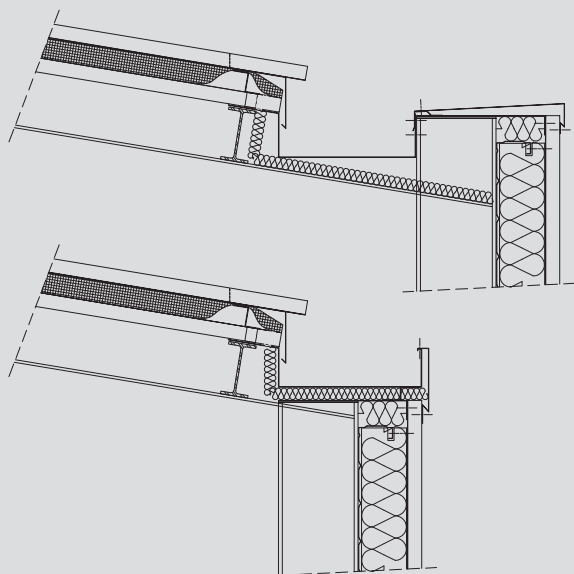
Toothed double ridge cap

DRAIN FLASHING



Toothed drain flashing

Examples of drainage systems
(other configurations detailed in DTU 40.35)



BUTYL SEAL :
Possibility of using a Butyl seal at overlaps (in accordance with DTU 40.35 recommendations)

UNDER ROOF SCREEN:
In the case of a warm (non-ventilated) roof, possibility of unrolling an under roof screen to treat condensation.

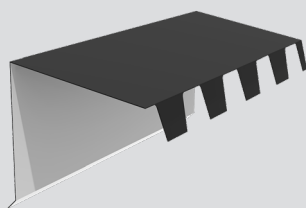
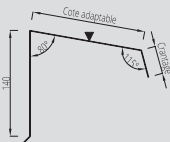
THE PROFILES

Effective length of finishing profiles : 2000 mm
Total length of finishing profiles : 2100 mm

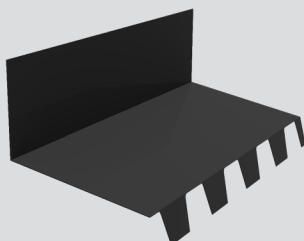
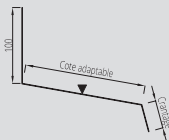
Custom-made finishing profiles according to projects requirements
Available toothed profiles
Finishing profiles fixing according to DTU 40.35 recommendations

SINGLE RIDGE CAP

Ventilated rood

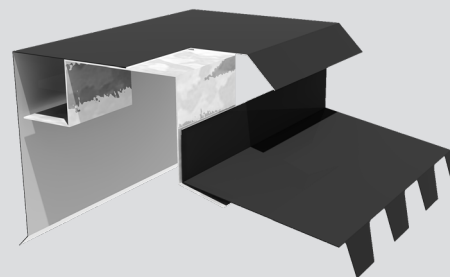
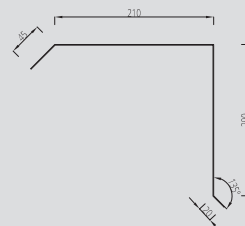
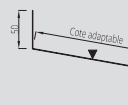
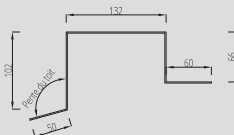


Toothed single ridge cap



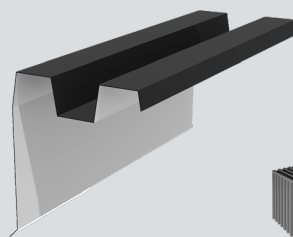
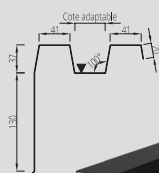
Toothed single ridge cap against wall

Non ventilated roof

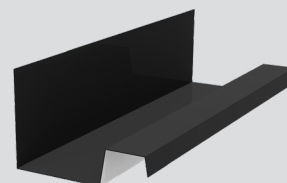
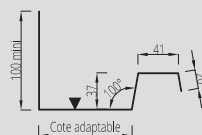


Toothed and ventilated single ridge cap

EAVE FLASHING



Eave flashing



Eave flashing against wall

NANO ROOF SCREWS

SCREW FOR METAL PURLIN

Cold-rolled purlin (thickness from 1.5mm to 6mm)
Hot-rolled purlin (thickness from 4mm to 12mm)
Density : 5 screws/m²

NANOVIS T/2C lacquered head TH12 – 6.3x75
NANOVIS T/2C lacquered head TH12 – 5.5x85

SCREW FOR WOOD PURLIN

Minimum anchoring 50 mm
Density : 5 screws/m²

NANOVIS Tb/2C lacquered head TH12 – 6.3x100

SEAM SCREW

Density : 1 screw/1m of overlap

NANOVIS TC/2C TTH 10 – 4.8x20

WATERPROOF SADDLE WASHER

NANO HOOD T VULCO Al/PrL (prelacquered aluminium + EPDM) type XV
Trapeze 40/52/8

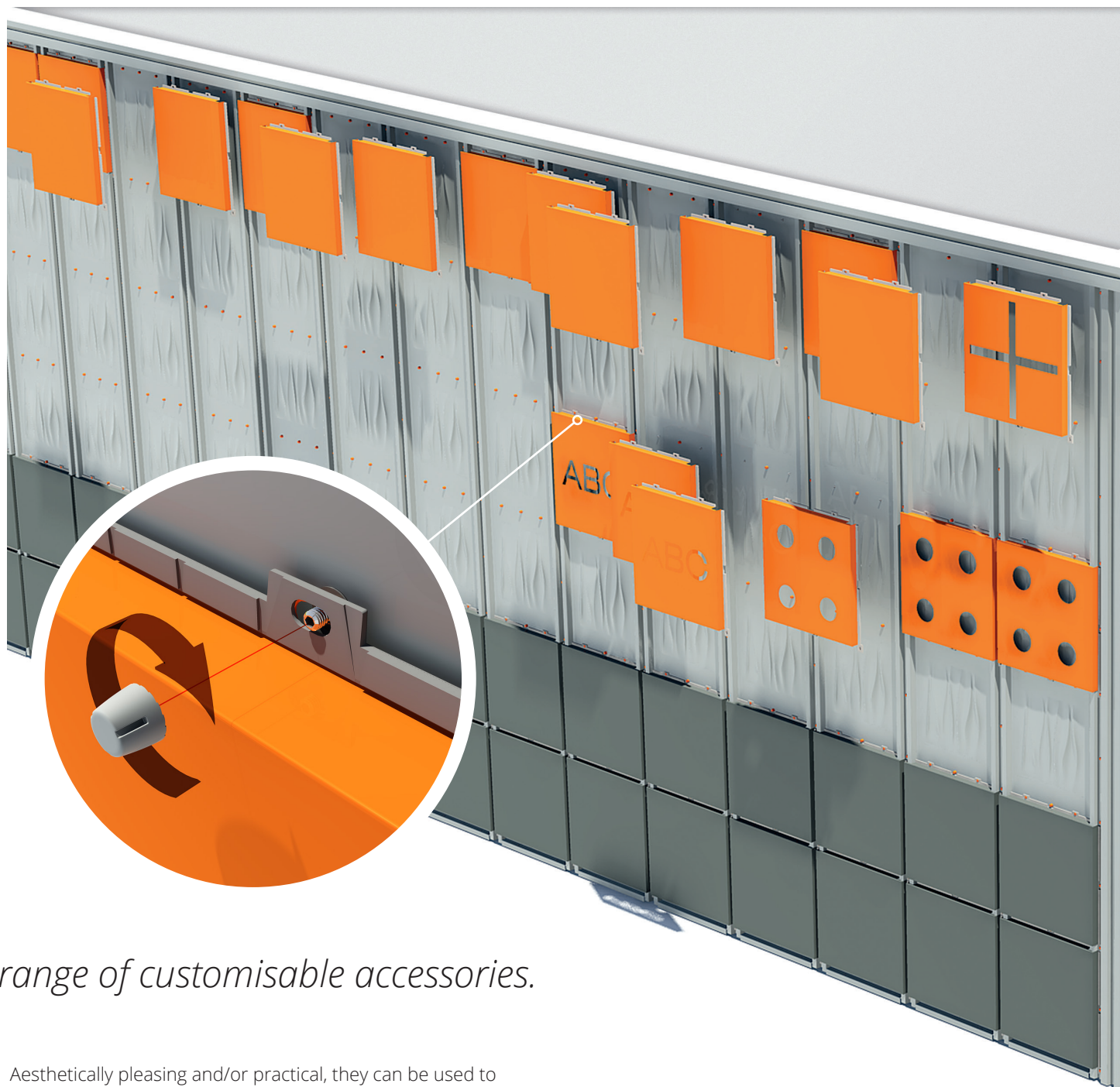
CIRCULAR ROOF WASHER

NANO CUP 25 VULCO Al/PrL Ø 25mm



ACCESSORIES

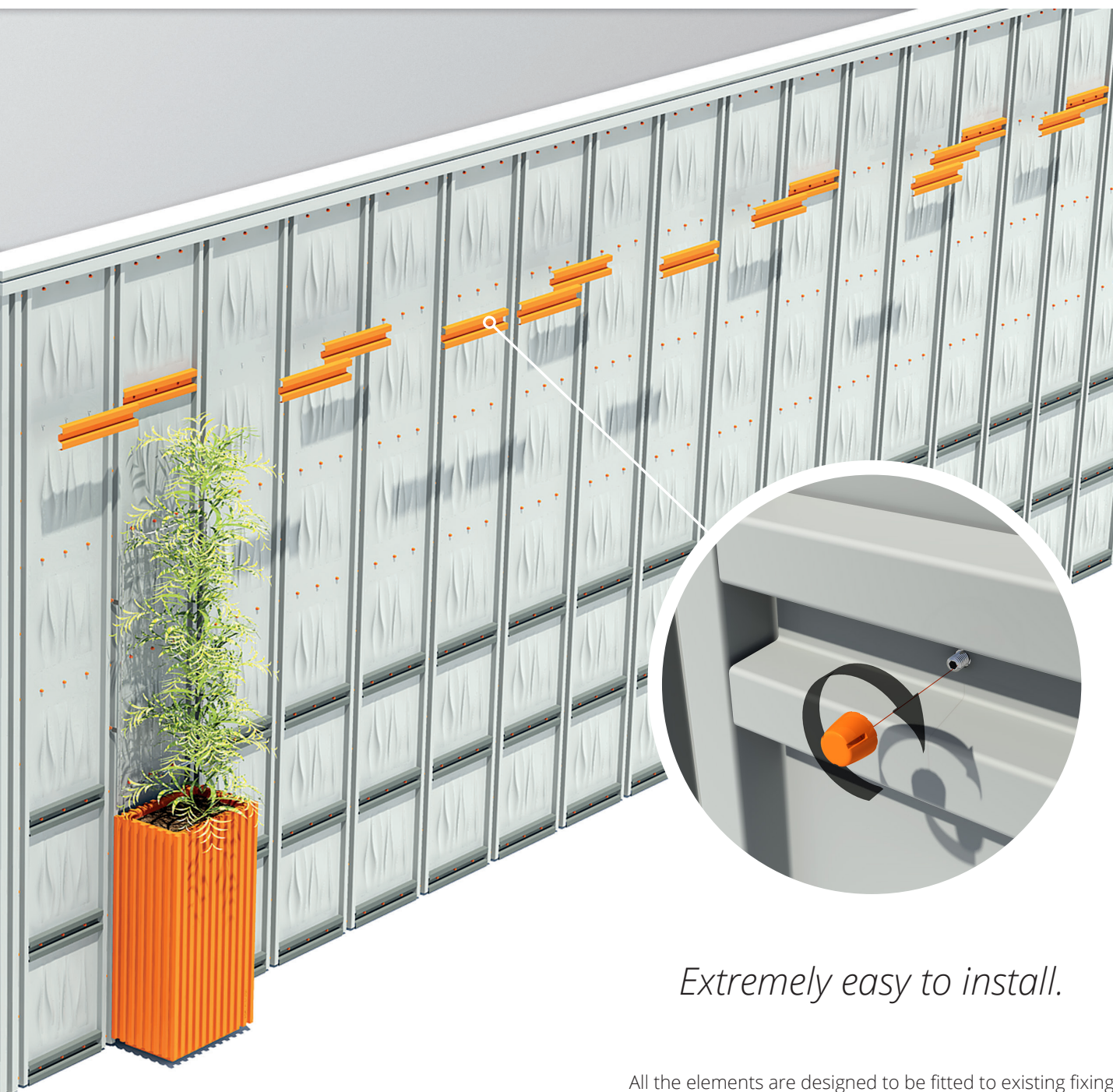
*A facade which **changes** ...*



A range of customisable accessories.

Aesthetically pleasing and/or practical, they can be used to accompany the change of design of a building.

... *as I want when I want*



Extremely easy to install.

All the elements are designed to be fitted to existing fixing points. Reversible installations. As easy to install as to remove and replace.

V3S® SCREW



The small detail
that changes everything

Pour la première fois, il devient possible
For the first time, it's possible to change the
identity of a facade quickly and simply, without
any major work.



V3S DUETO 5,5X90
Screws for double-skin cladding 60mm



V3S DUETO 5,5X70
Screws for double-skin cladding 40mm



V3S FIXOBOIS 6,5X38
Screws for fixing to timber frames

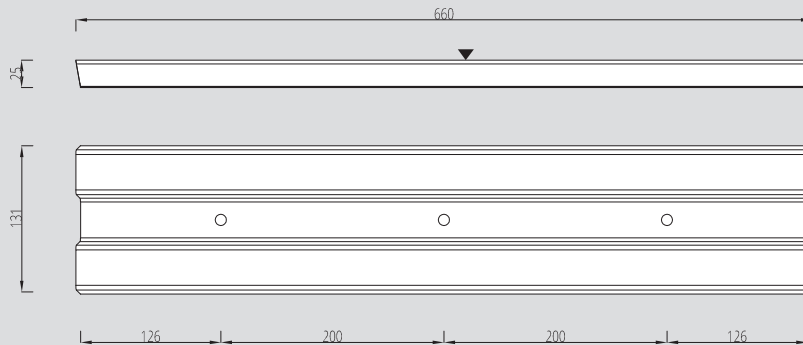
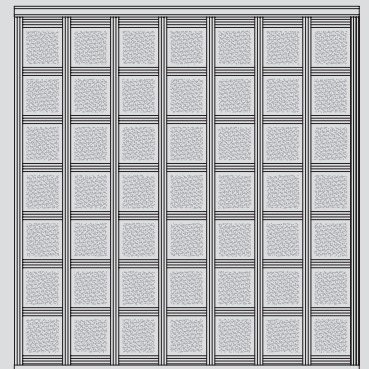
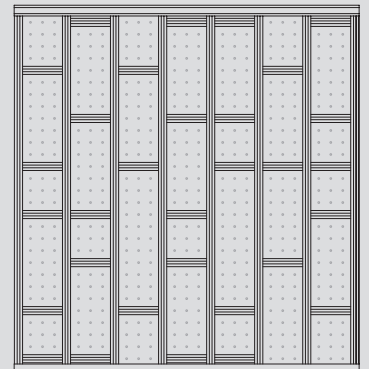
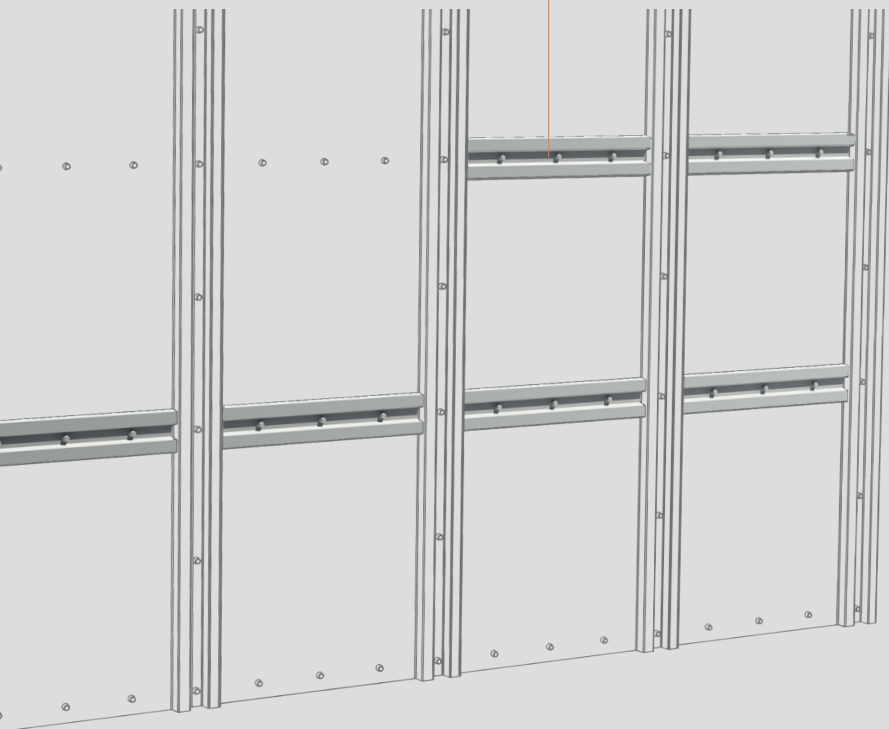


V3S FIXO 5,5X25
Screws for fixing to metal frames

A COMPLETE RANGE OF SCREWS

Aesthetically pleasing, you can customise the colour. Available for double-skin mounting and metal frames, the screws in the RELIEF range make it easy to fix all the accessories in the range, thanks to the screwing key.

PERPENDICULAIRE® (PERPENDICULAR STRIP)



THE CROSS-LINE EFFECT

When a simple perpendicular strip allows you to play with the horizontal and/or vertical lines of the building, completely transforming the way the project is viewed.

The perpendicular strip is a cladding accessory used to create horizontal lines and so to cross lines. It features the double ribbing characteristic of the 3S range and fits onto the flat surfaces of the steel panels. You can vary the colours of this accessory, and play with the colour of the 3S nut !

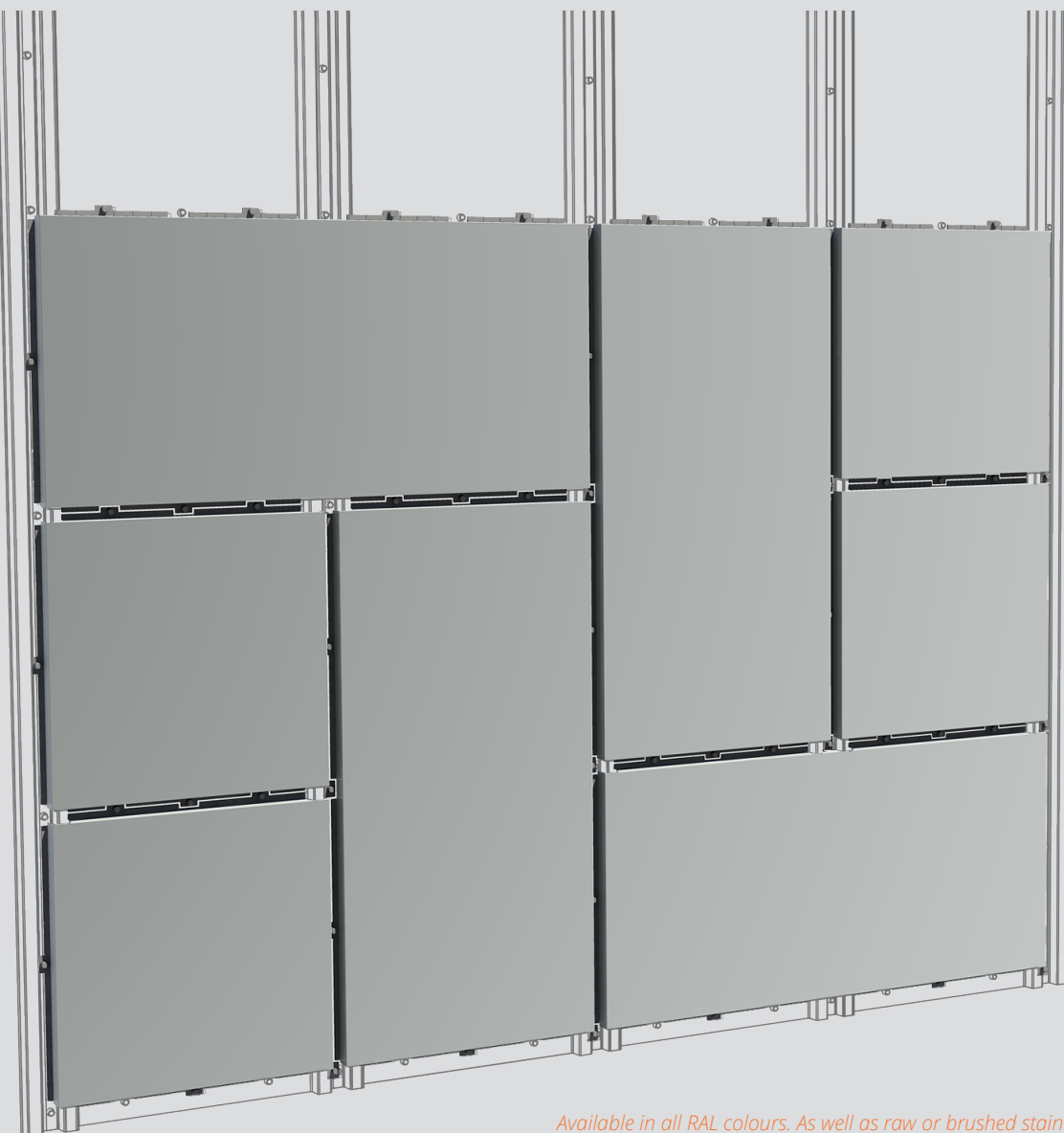
Material	Coating	Th. (mm)	Norm
Steel S220 mini	Hot dip galvanized	1.0	EN 10346 / NF P 34-310
	Post-laquering	1.0	NF P 24351
	Polyester 25/35µ	1.0	EN 10169
	Other coatings	Upon request	EN 10169
Stainless steel	1.4301 (301)	1.0	NF EN 10088-2
Weathered steel	S355 JO WP mini	1.5	EN 10025-5:2005
Aluminium	5005/Post-laquering 60µ	1.5	NF A 50-451 / NF P 24351

Material	Th. (mm)	M _{element} (kg)	M _{fixing} (kg/fixing) ^b
Steel S220 mini	1.0	1.16	0.39
Stainless steel	1.0	1.16	0.39
Weathered steel	1.5	1.74	0.58
Aluminium	1.5	0.60	0.20

(b) The mass to be taken up per fixing (M_{fixing}) is the mass of a complete element in relation to its number of fixings.



STANDARD 3S® CASSETTES



Available in all RAL colours. As well as raw or brushed stainless steel, aluminium and Corten steel



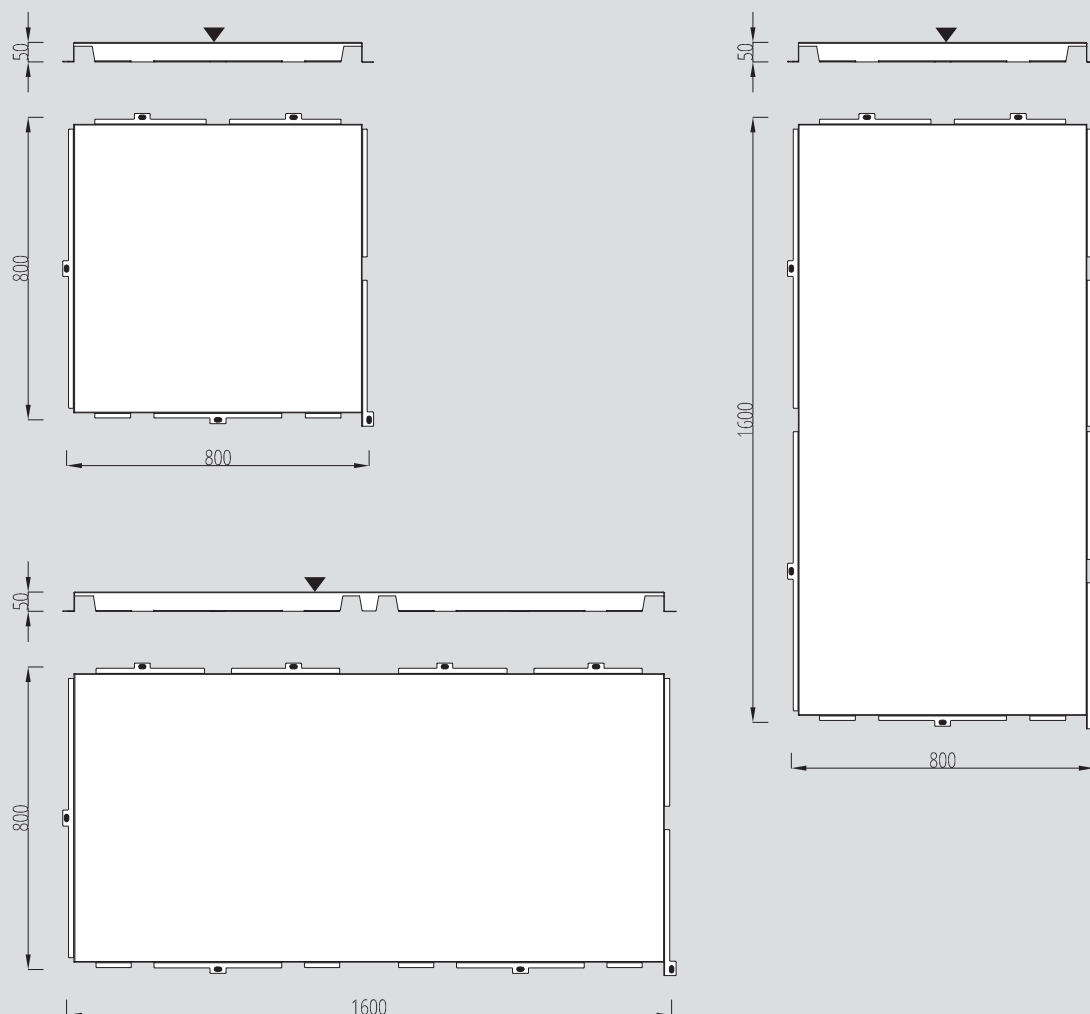
MULTIPLE RENDERING

When you revisit the concept of the traditional cassette, there are only limits to your imagination of an ultimate building customization. Available in lacquered steel, raw or brushed stainless steel, Corten steel...

A wide range of colours and three standard shapes to allow you to create a random mix for your façades :

- 1M single cassette (800x800mm)
- 2MV double vertical cassette (1600x800mm)
- 2MH the double horizontal cassette (800x1600mm)

STANDARD 3S® CASSETTES



▼ Lacquered side

Material	Coating	Th. (mm)	Norm
Steel S220 mini	Hot dip galvanized	1.0	EN 10346 / NF P 34-310
	Post-laquering	1.0	NF P 24351
	Polyester 25/35μ	1.0	EN 10169
	Other coatings	Upon request	EN 10169
Stainless steel	1.4301 (301)	1.0	NF EN 10088-2
Weathered steel	S355 JO WP mini	1.5	EN 10025-5:2005
Aluminium	5005/Post-laquering 60μ	1.5	NF A 50-451 / NF P 24351

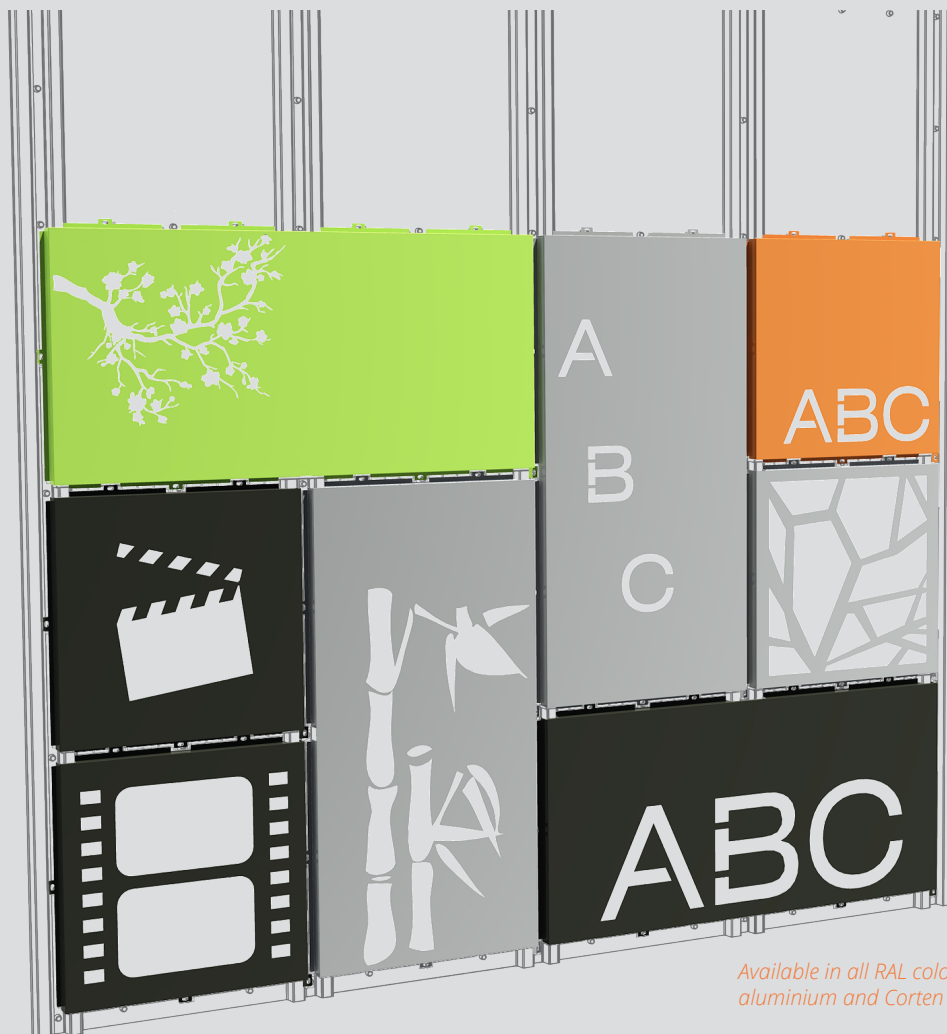
Material	Th. (mm)	M _{élément} (kg)			M _{surfacique} (kg/m ²) ^a			M _{fixing} (kg/fixing) ^b		
		1M	2MH	2MV	1M	2MH	2MV	1M	2MH	2MV
Steel S220 mini	1.0	6.15	11.70	11.82	9.61	9.14	9.24	1.23	1.46	1.69
Stainless steel	1.0	6.15	11.70	11.82	9.61	9.14	9.24	1.23	1.46	1.69
Weathered steel	1.5	9.14	17.42	17.59	14.28	13.61	13.74	1.83	2.18	2.51
Aluminium	1.5	2.23	4.13	6.17	3.49	3.23	4.82	0.70	0.52	0.88

(a) The mass per unit area (M_{surfacique}) is calculated assuming that the entire facade is covered with this accessory.

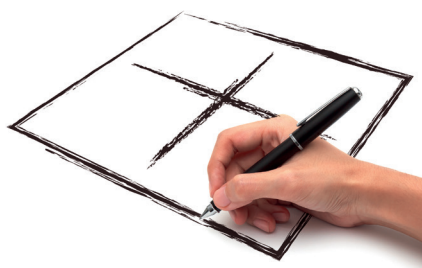
(b) The mass to be taken up per fixing (M_{fixation}) is the mass of a complete element in relation to its number of fixings.

ACCESSORIES

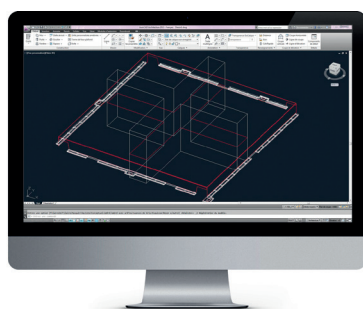
3S CASSETTES WITH CUSTOMIZED CUTTING-OUT



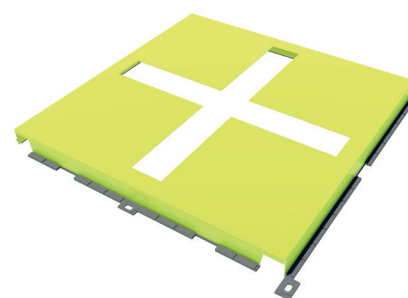
Available in all RAL colours. As well as raw or brushed stainless steel, aluminium and Corten steel



**YOU
DRAW**



**WE MAKE
THE MODEL**



**WE PRODUCE YOUR
CUSTOMIZED CASSETTE**

ACCESSORIES



3S® PLANTER



INTEGRATED VEGETATION

The original 3S® PLANTER is designed to blend in perfectly with all the elements in the 3S range.

This planter features the characteristic rib design of the range. Combined with the trellis accessory, the planter becomes a support for the facade's vegetation, allowing climbing plants to grow.

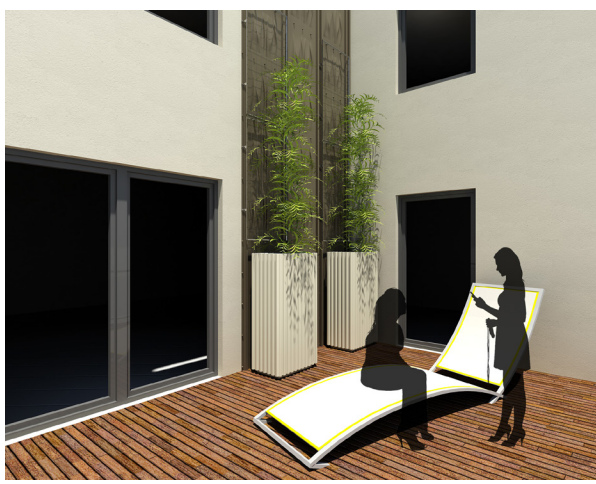
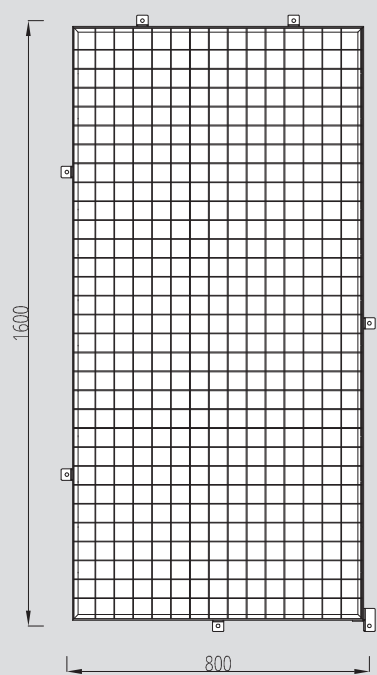
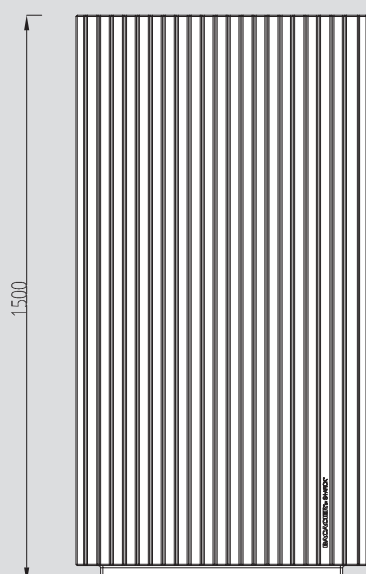
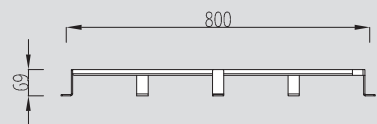
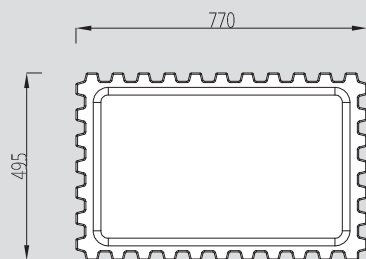


		COTTON	
SPRING		CARAMEL	
POP		ANTHRACITE	

Product	Material	Th. (mm)	M _{element} (kg)	M _{surface} (kg/m²) ^a	M _{fixing} (kg/fixing) ^b
Planter	Polyethylene	-	53.40 ^c	-	-
Trellis	Steel S220 mini	3	6.50 ^c	5.08 ^c	0.93 ^c

(a) The mass per unit area (M_{surface}) is calculated assuming that the entire facade is covered with this accessory.
(b) The mass to be taken up per fixing (M_{fixing}) is the mass of a complete element in relation to its number of fixings.
(c) The masses do not take into account the vegetation nor the planter's filling

3S® PLANTER

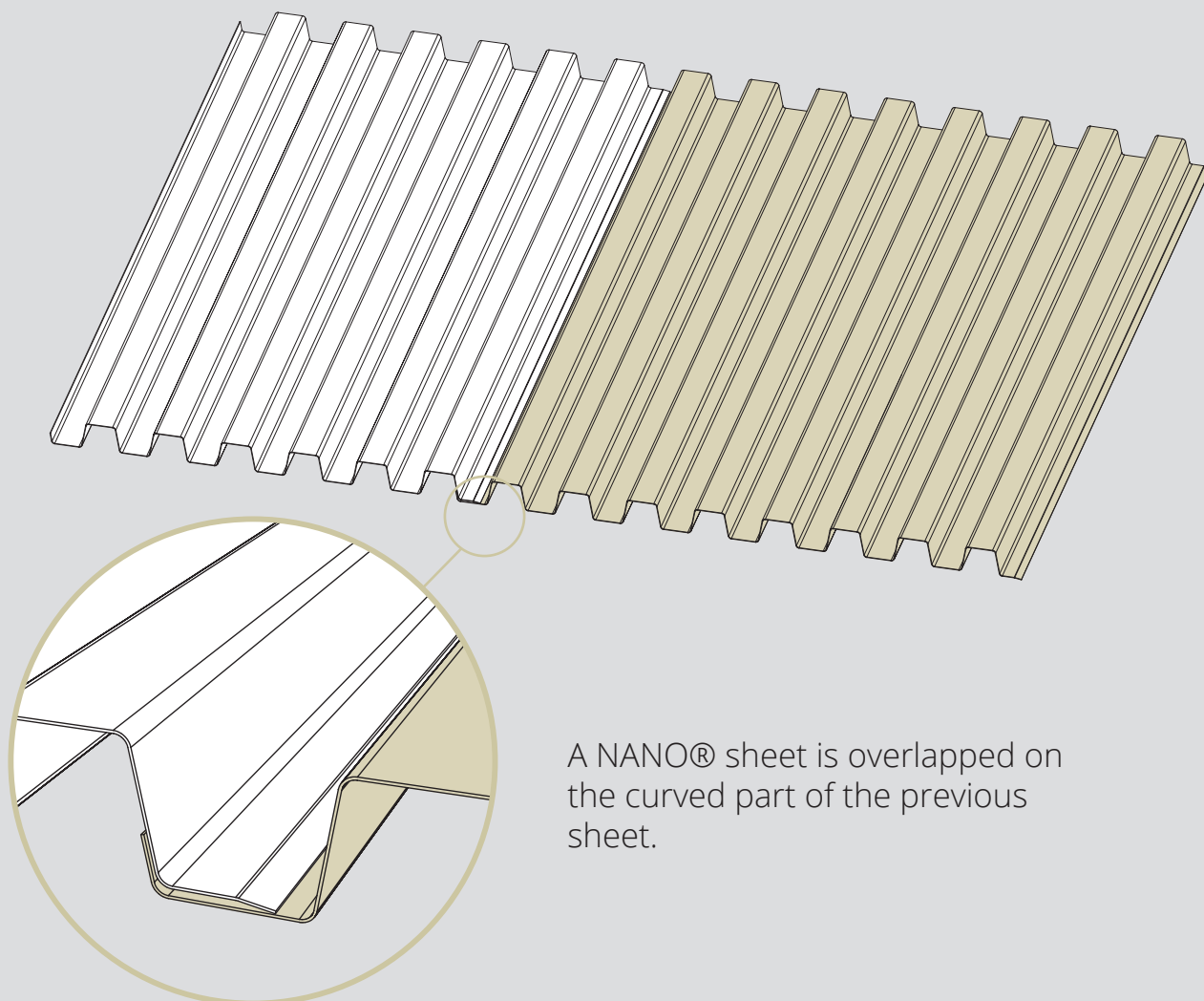




INSTALLATION

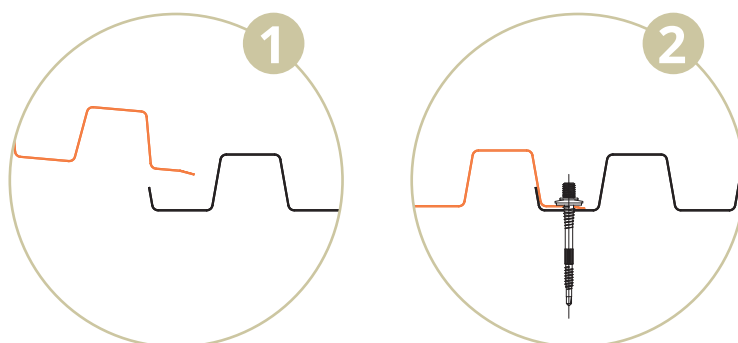
INTERLOCKING

NANO® 540 & 710



A NANO® sheet is overlapped on the curved part of the previous sheet.

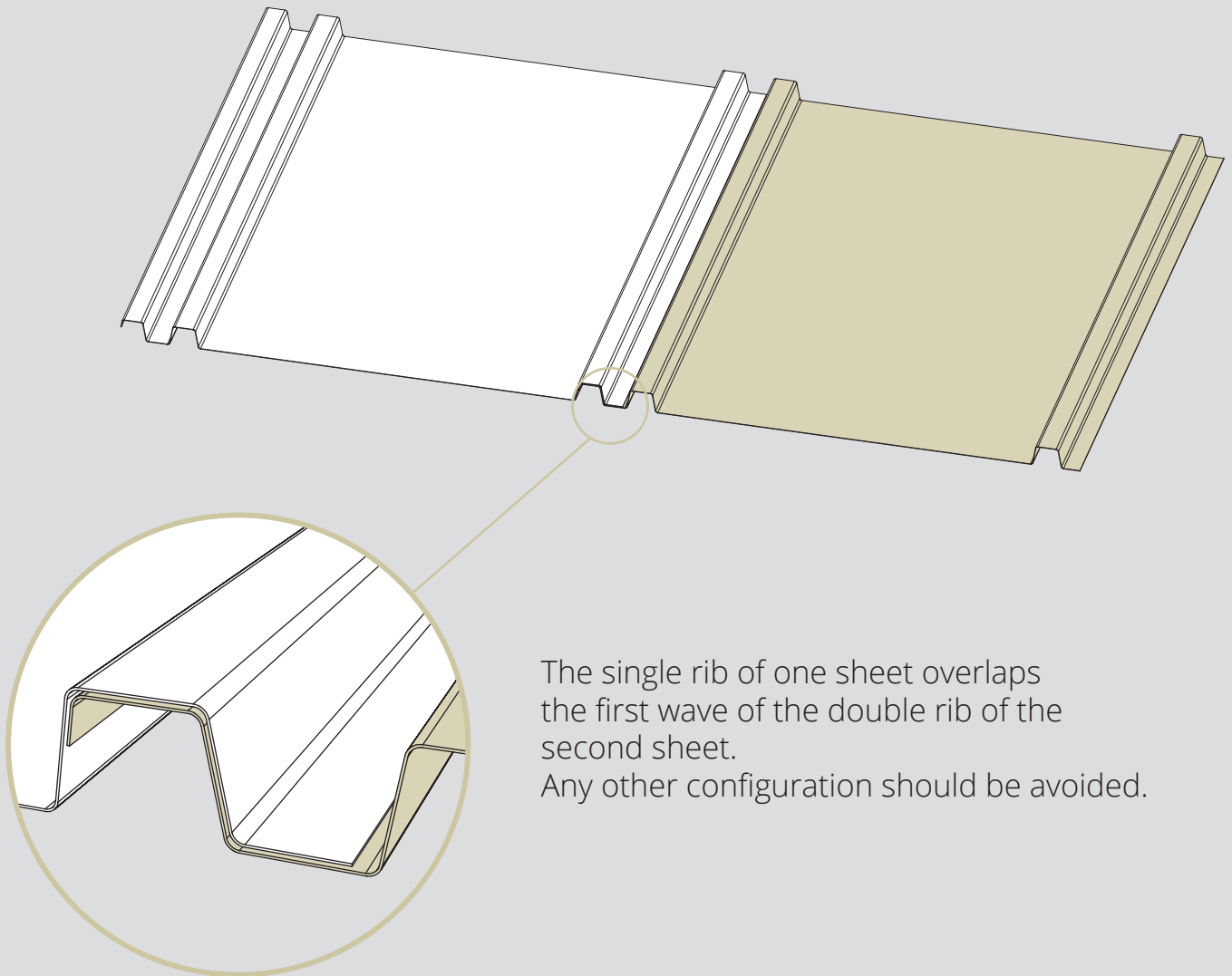
The profiles of the NANO range are traditional ribbed cladding sheets, designed in accordance with the professional recommendations for production and installation of steel cladding of 2nd edition in January 1981.



NANO® sheet interlocking sequence

INTERLOCKING

POINT® - PERSIENNE® - VÉGÉTALE® - ROCHER®

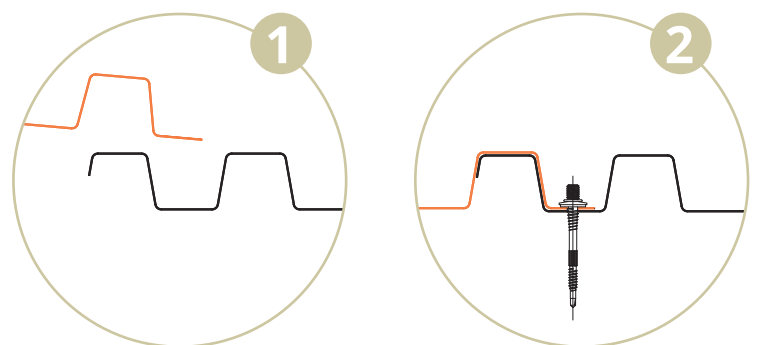


The single rib of one sheet overlaps the first wave of the double rib of the second sheet.
Any other configuration should be avoided.

The profiles in the 3S range are designed to allow them to be fitted onto a rib, ensuring a better waterproofing.

Interlocking with a rib, combined with our manufacturing tolerances, means that there is very little room during installation, ensuring that the layout is respected, with no unpleasant surprises.

CAUTION : As the profiles in the 3S range are produced using innovative, non-traditional manufacturing methods for metal cladding, nuances of colour and reflections may appear on the stamped and flat surfaces. These nuances in no way affect the performance of the cladding, which is still covered by the same warranties as our more traditional products.

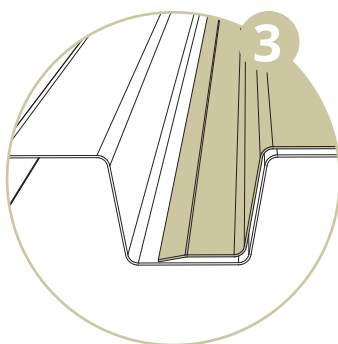
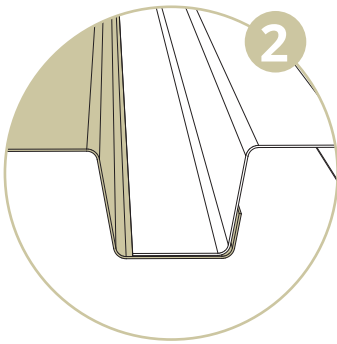
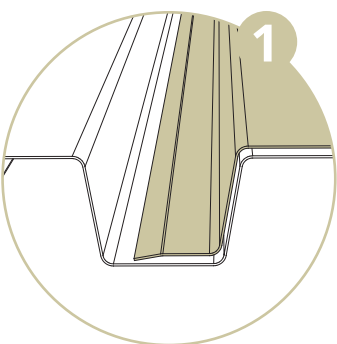
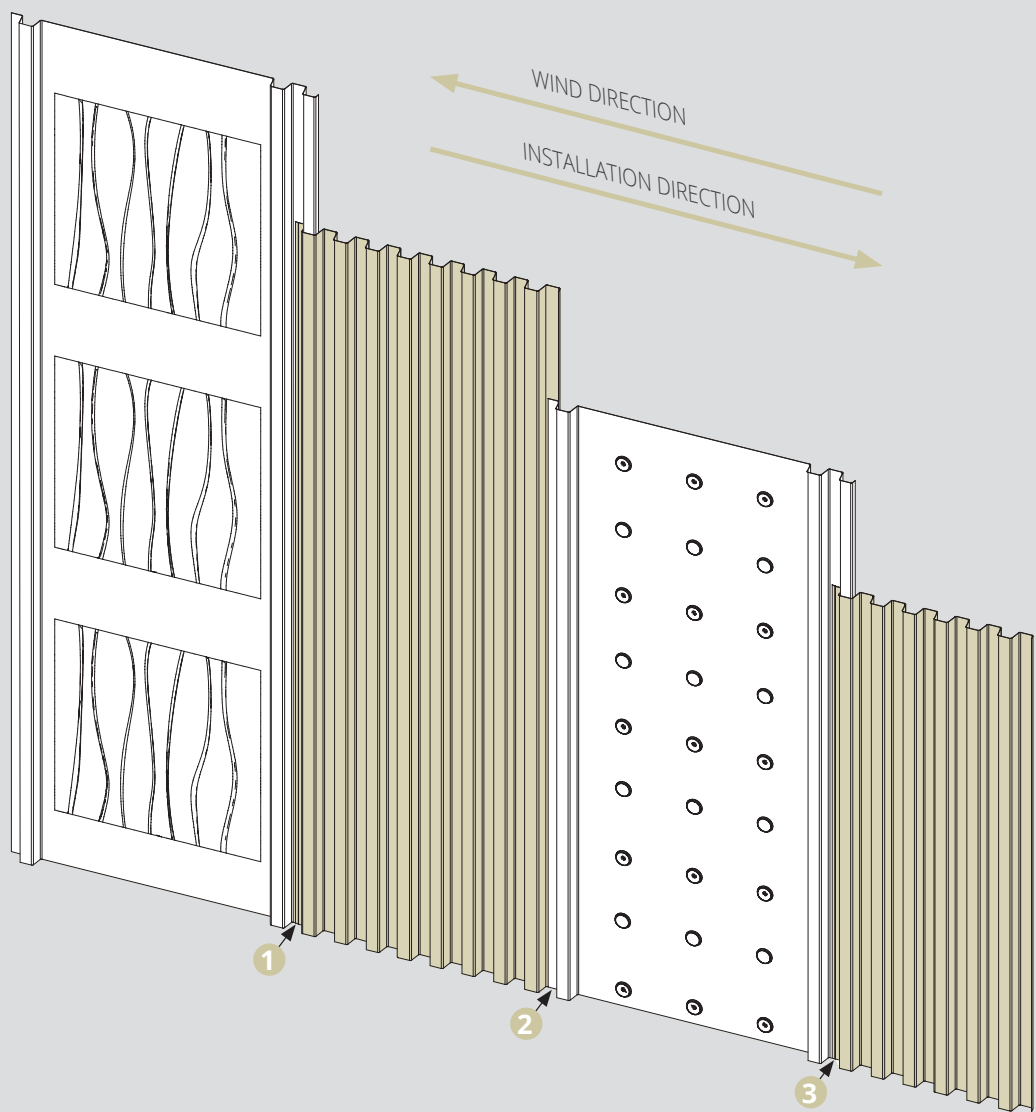


Stamped sheets interlocking sequence

INSTALLATION

MIX

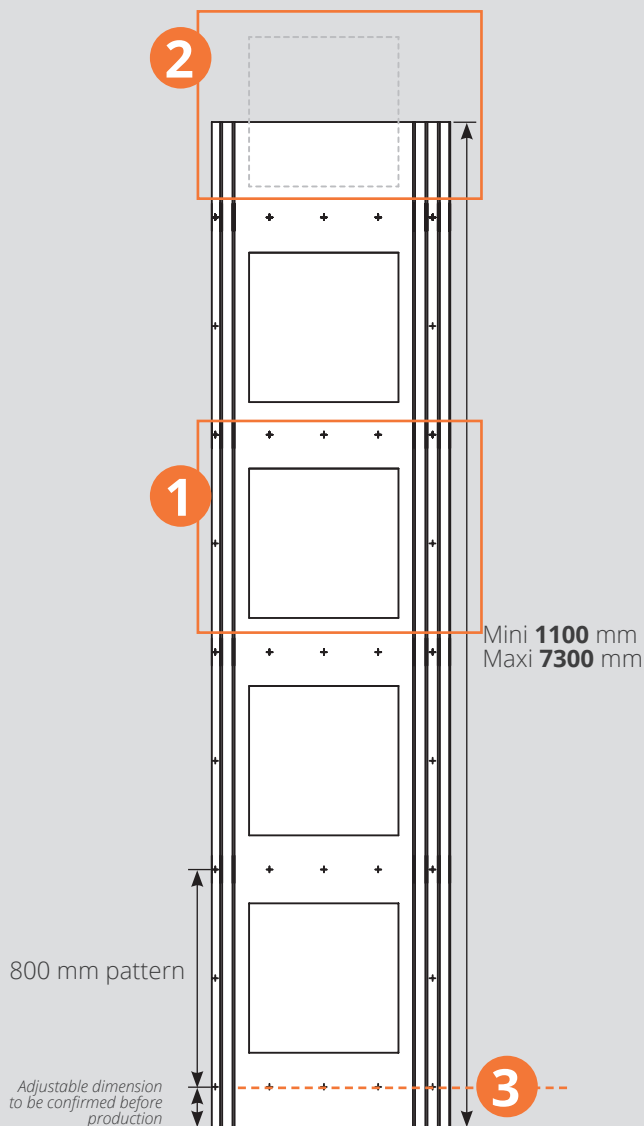
INSTALLATION FROM LEFT TO RIGHT



The sheets can also be assembled in the opposite direction by turning them over, respecting the interlocking prescribed in the images above.

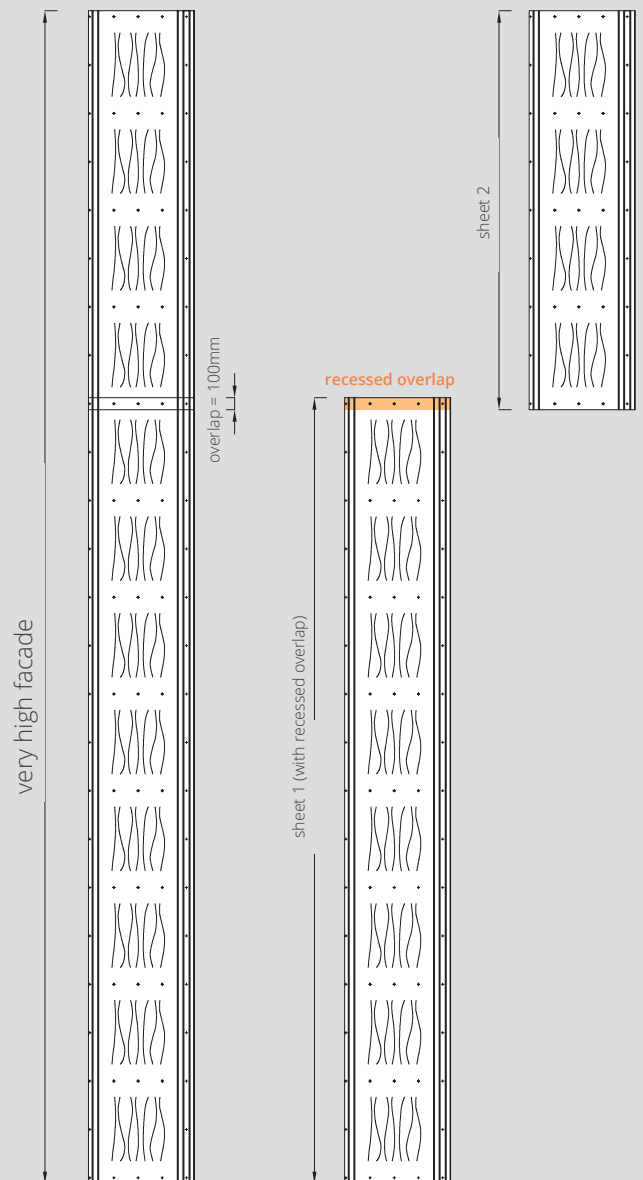
CAUTION : ny other interlocking pattern should be avoided.

LAYOUT



- 1 A stamped profile (POINT, PERSIENNE, ROCHER or VEGETAL) measures 800mmx800mm. The fixing lines are inseparable from the stamped pattern.
- 2 If the chosen size does not allow a final pattern to be stamped, the remaining length will be treated as a flat area.
- 3 As the fixing lines are linked to the stamped pattern, the installation of the patterns must take into account the height of the liner-tray lips or secondary frame structure.

RECESSED OVERLAP



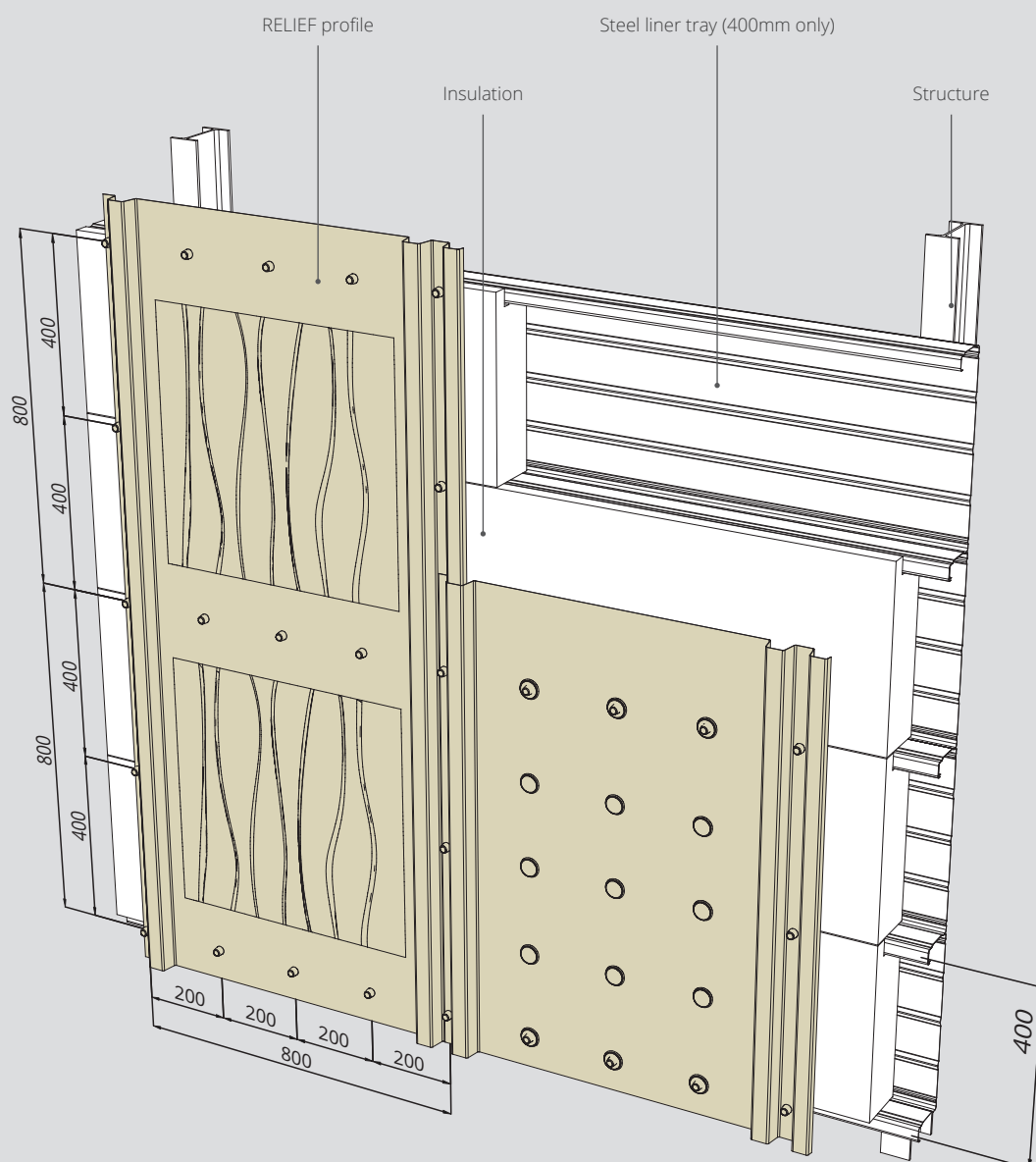
RECESSED OVERLAP OPTION

Recessed overlap is a stamping work. The top part of a sheet, 100mm long, is recessed. The aim is to create an offset that will allow the upper sheet, which will overlap the lower sheet, to be positioned at the same level on the facade. Recessed overlap gives a more aesthetically pleasing appearance to the installation, and also it ensures a better waterproofing.



View of a rib with recessed overlap

VERTICAL APPLICATION



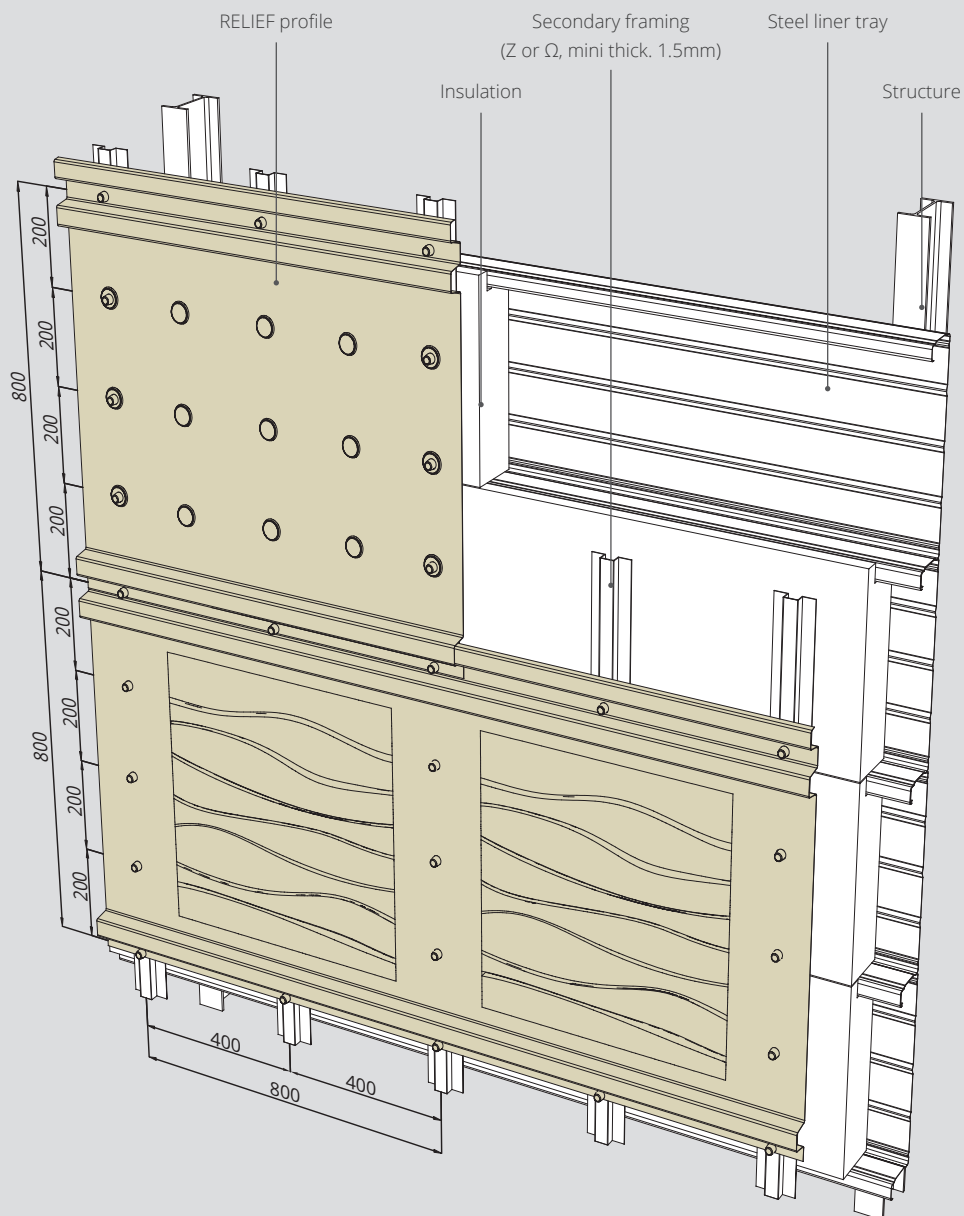
It is essential that the trays are horizontal to ensure that the facade looks perfect. Take care not to deform the stamped metal sheets when fixing them.

If you wish to add accessories from the 3S RELIEF range, make sure you use screws from the 3S range and place them according to the pattern detailed on page 59.

When installing the sheets, it will be necessary to use as a starting point the precise alignment of the screw lines.

CAUTION : In vertical double-skin cladding, the trays must be 400 mm wide.

HORIZONTAL APPLICATION



The verticality of the secondary framing profiles (Z or Ω) is essential to achieve a perfect facade finish.

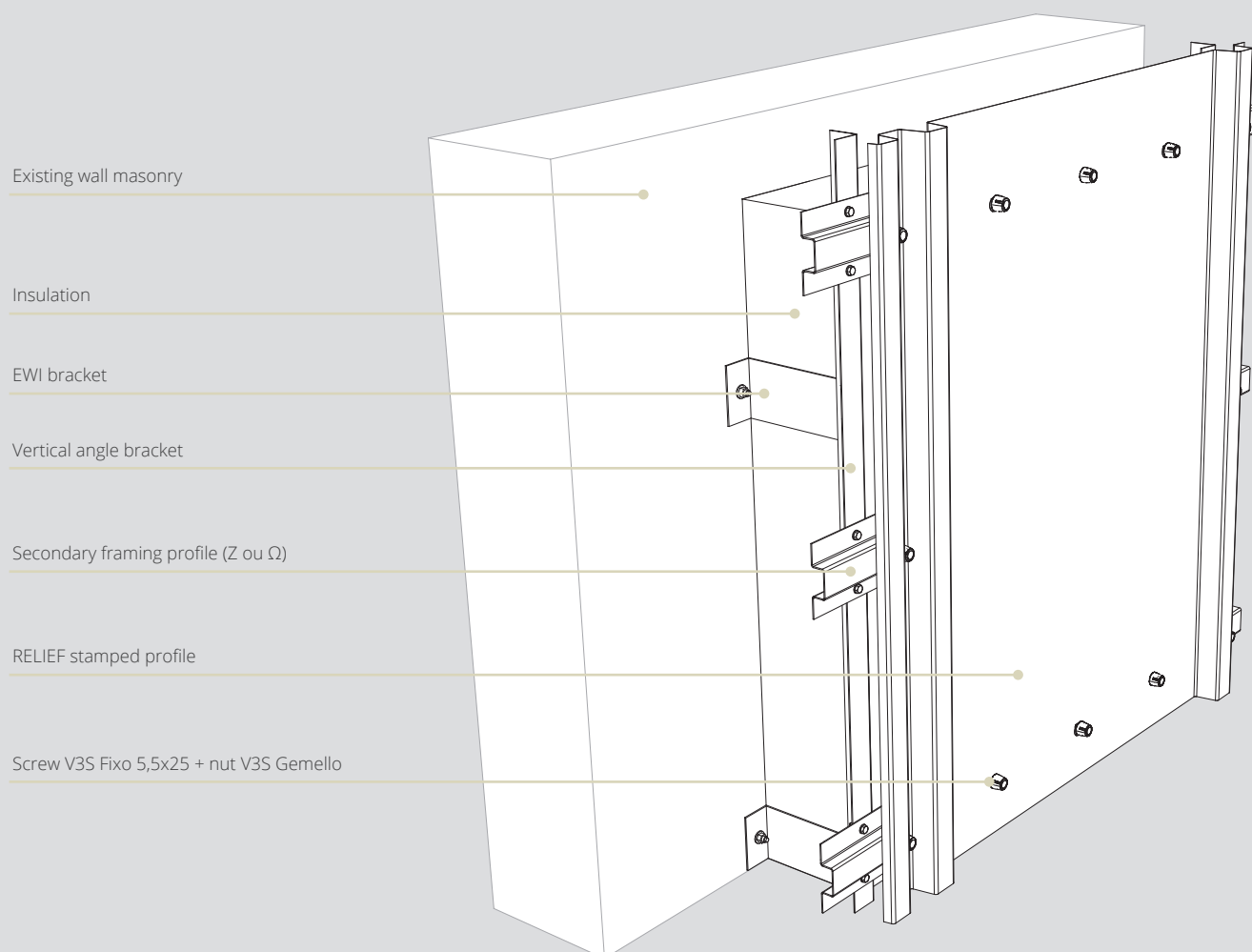
Note on the spacing of the secondary framing profiles (Z or Ω)

The profiles should be positioned at least every 400mm (or every 800mm in certain cases) to take advantage of all the fixing points in the event of accessories being added at a later date. They will be positioned as required for the NANO.

In any case, the mechanical characteristics of the sheets must be checked in addition to the aesthetic aspects.

CAUTION : As the sheets and accessories come from coils of different thicknesses and baths, nuances in colour are possible.

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



MASONRY WALLS

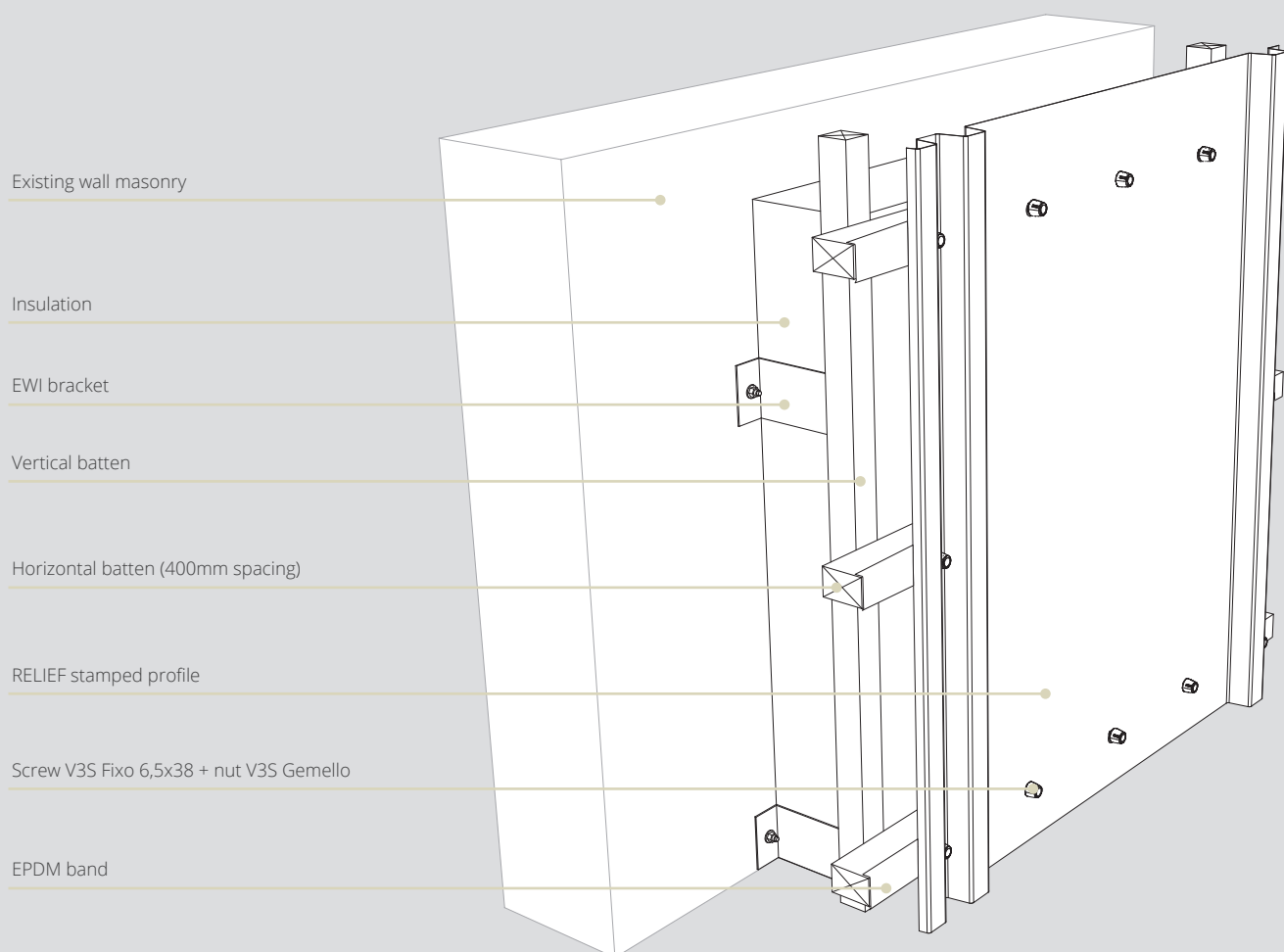
The 3S system is suitable for External Wall Insulation (EWI) installation.

The 3S sheets will enable you to clad your concrete or masonry walls, and above all insulate your building, thus helping to reduce energy costs.

The framework and its installation comply with CSTB specification 3194.

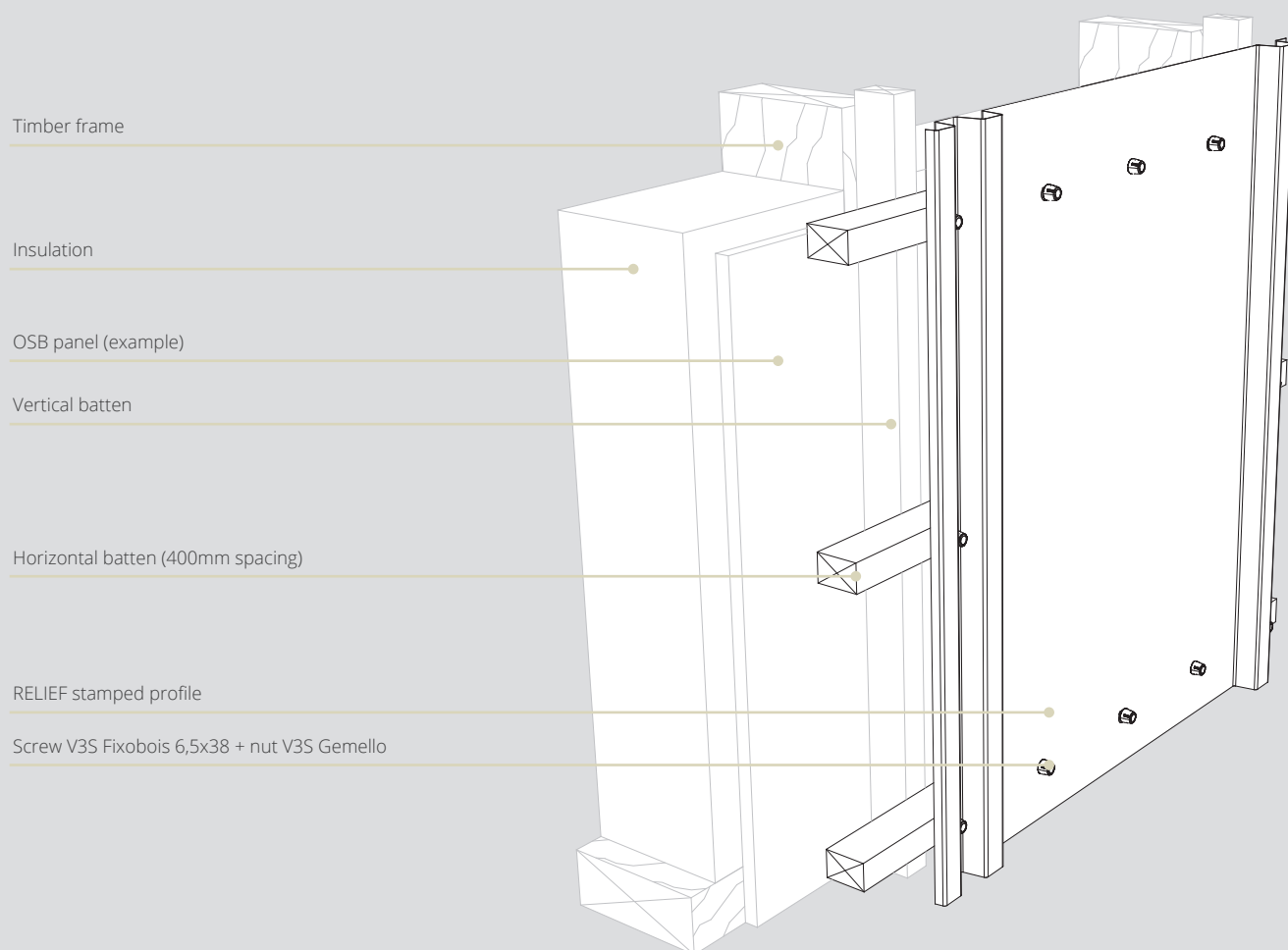
Load-bearing profiles must be fitted at the top and bottom of the cladding, and must be sized accordingly.

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



The framework and its installation comply with CSTB 3316 specifications.

TIMBER-FRAMED WALLS

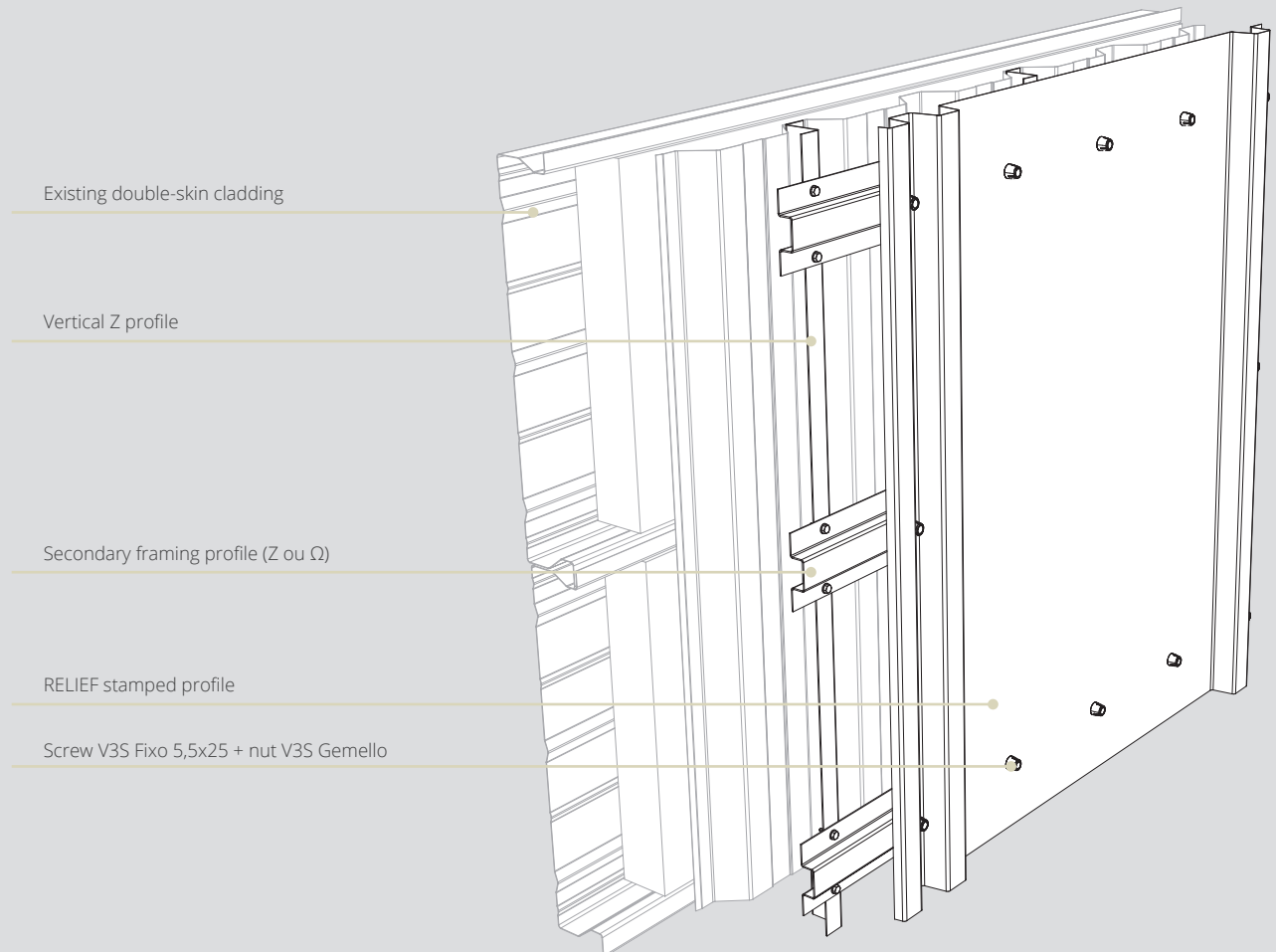


TIMBER FRAME WALLS

The 3S system is suitable for installation on timber frames using the V3S Fixobois 6.5x38 screw.

CAUTION : Outside the scope of applications of the ETN (New Technical Assessment).
Note: ETN (Enquête de Technique Nouvelle) is a French technical assessment procedure for innovative construction products that don't have existing standards.

INSTALLATION ON EXISTING DOUBLE-SKIN CLADDING



RENOVATING A BUILDING WITHOUT REMOVING THE EXISTING CLADDING

In the case of double-skin cladding where you know the load-bearing capacity (sufficient structure in good condition), a simple secondary framework is all you need to hold the new cladding in place.

A first grid of vertical 'Z's is fixed evenly into the corrugations of the existing cladding. A second grid of secondary framing profiles (Z or Ω), fixed every 400mm, will be fitted on top to accommodate the RELIEF sheets.

This system will need to be specifically dimensioned.

CAUTION : Outside the scope of applications of the ETN (New Technical Assessment).
Note: ETN (Enquête de Technique Nouvelle) is a French technical assessment procedure for innovative construction products that don't have existing standards.

FIXING THE PANELS

THE V3S SCREW

PATENTED
DESIGN

V3S GEMELLO Nut

Nut Thread

Collar

Sealing washer S16 or S20

Upper thread

Spacer cone

Lower thread

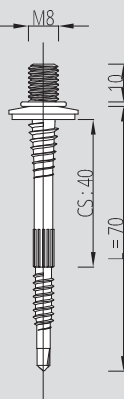
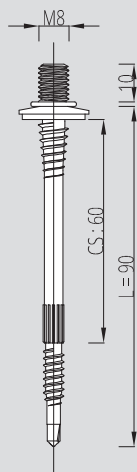
Drill point

V3S DUETO 5,5X90
Screws for double-skin
cladding 60mm

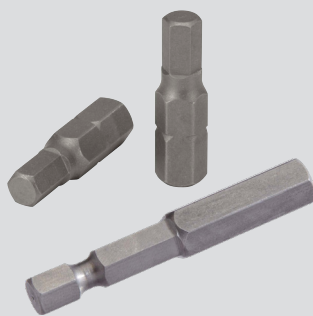
V3S DUETO 5,5X70
Screws for double-skin
cladding 40mm

V3S FIXOBOIS 6,5X38
Screws for fixing to timber
frames

V3S FIXO 5,5X25
Screws for fixing to
metal frames



A TOOL FOR EACH STEP



4mm hexagonal screw-driver to fasten
screws from the V3S range
(not supplied)



Locking nut key
(available from Ateliers 3S)

The fasteners in the 3S range are designed to cover all cases of :

- Single-skin cladding
- Inset cladding
- Traditionnal double-skin cladding
- Double-skin cladding with thermal break of 40mm and 60mm
- Timber-framed cladding

They have a dual purpose:

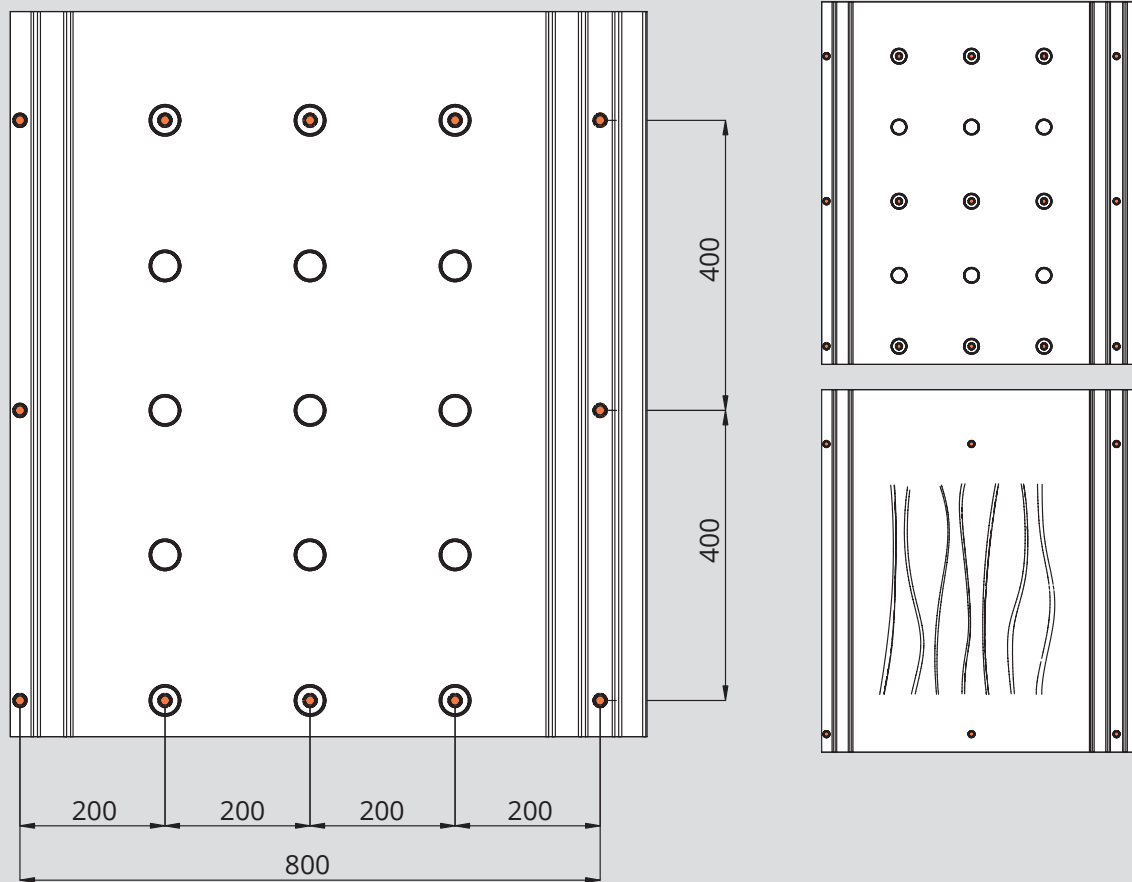
- To hold the 3S steel cladding in place by ensuring that the system is watertight at the fixing point (screw)
- To offer a first way of customizing your facade by choosing the colour of the nuts.

The screw is screwed into the cladding using a standard **4mm hexagonal screwdriver**.

The nut is screwed on using a special **3S locking key**.

PANELS INSTALLATION PATTERN

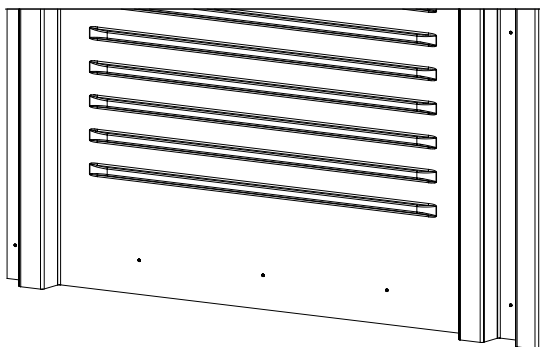
(except NANO profile)



To maintain the aesthetic appearance of the ATELIERS 3S fastener grid and allow decorative accessories to be added at a later date, the required screw density is 7.8 screws/m² (as shown in the drawing above).

This density can be reduced, but will prevent the fitting of decorative accessories at a later date.

When installing the sheets, the starting point should be the exact alignment of the screw lines and not the starting point on the liner tray lips.

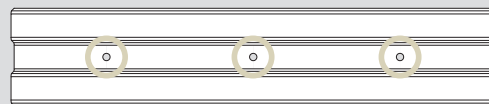
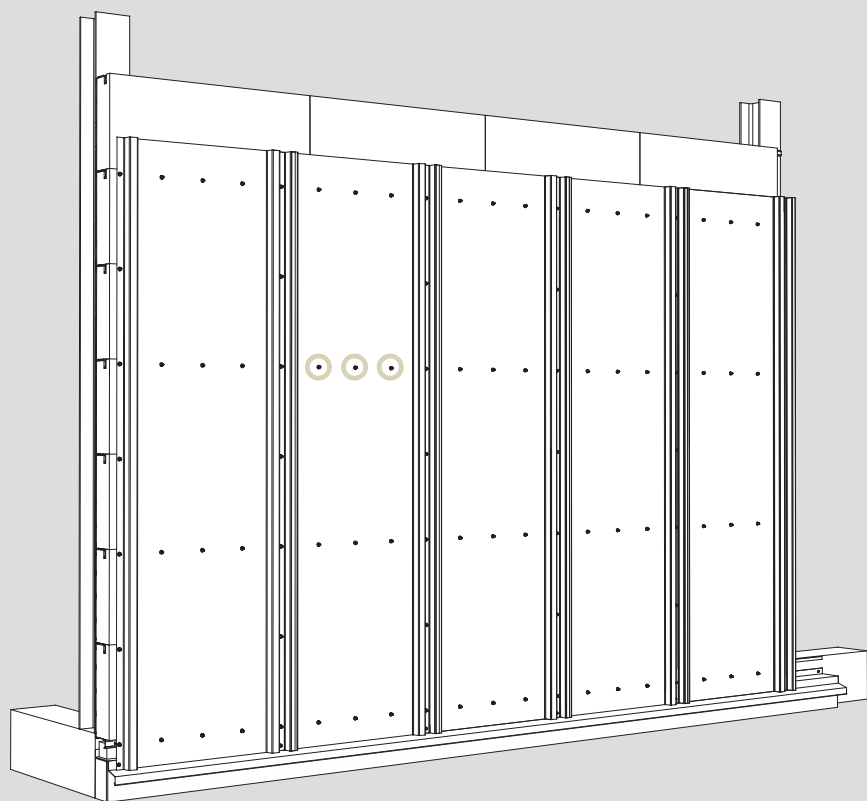


The screw grid is marked on the sheet by small reference points. This pattern must be followed precisely, as it will allow accessories to be added later. Can only be installed on 400mm liner trays.

Any other installation type will have aesthetic consequences and will prevent accessories from being fitted.

CAUTION : it is the responsibility of the installer or installation company to transfer the positions of the starting points according to the imposed installation patterns. The company Ateliers 3S will not be held responsible in the case of unsightly consequences of the sheet metal and the impossibility of fixing the accessories in the patterns provided for this purpose, in the context of incorrect positioning of the fixings.

PERPENDICULAR STRIP INSTALLATION

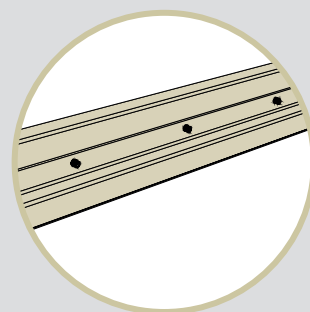
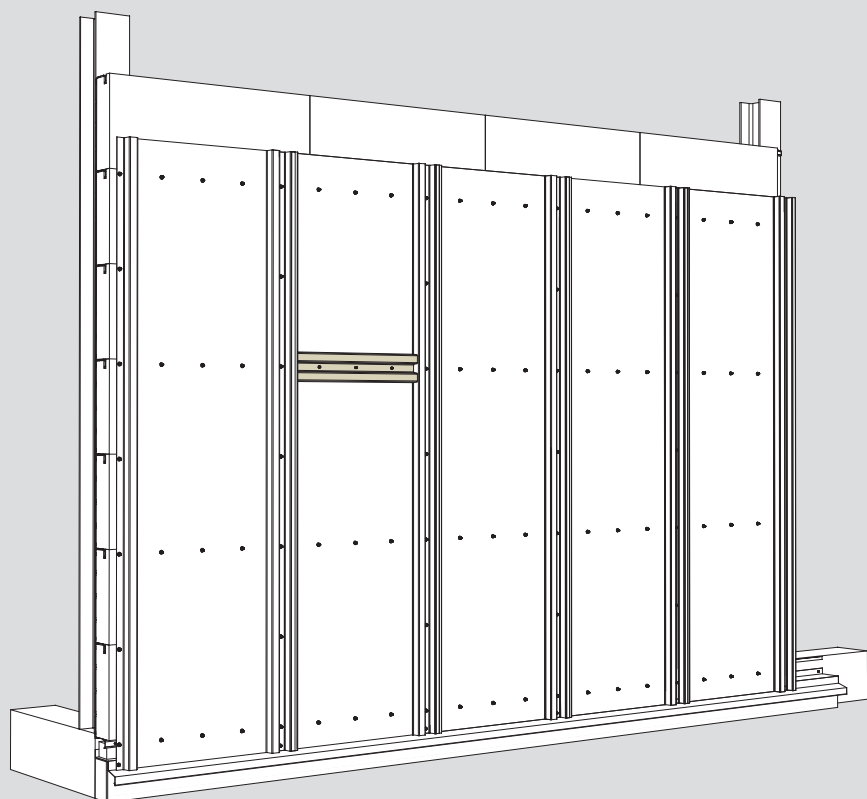


1. Check that the necessary fixing points are available

Use of screws from the V3S screw range for fixing the cladding

3 consecutive fixing points available for the perpendicular STRIP

The perpendicular strips are installed between the ribs of the profiles, and can be positioned each time a line of screws is available.

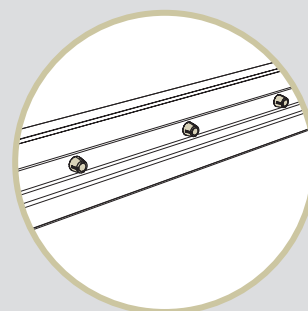
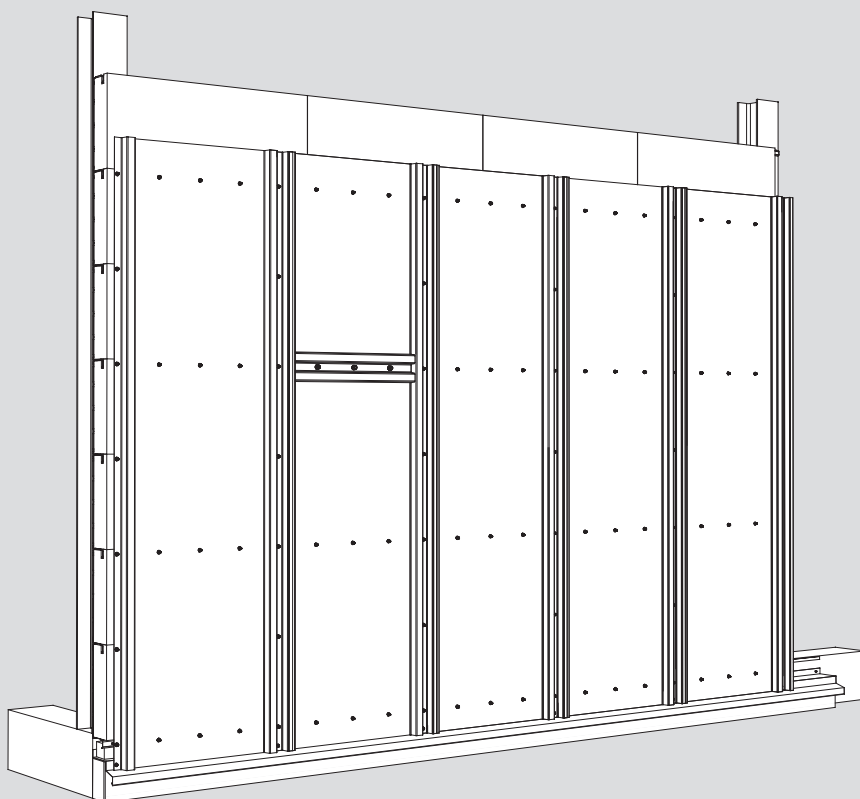


2. Positioning the perpendicular strip

Push the perpendicular strip onto the screw heads

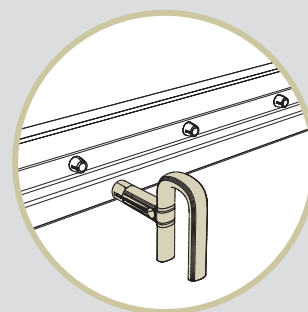
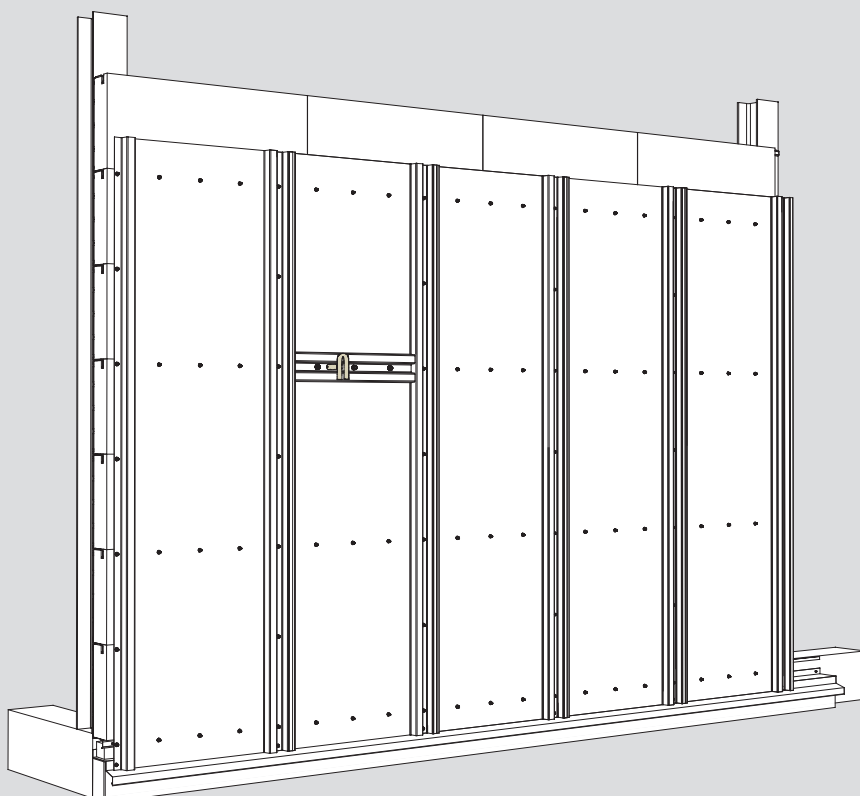
INSTALLATION

Within the limits of the colours available in post-lacquering. Please note that, unlike sheet metal, accessories are powder-coated, which may result in variations in colour for a given RAL.



3. Installing a nut

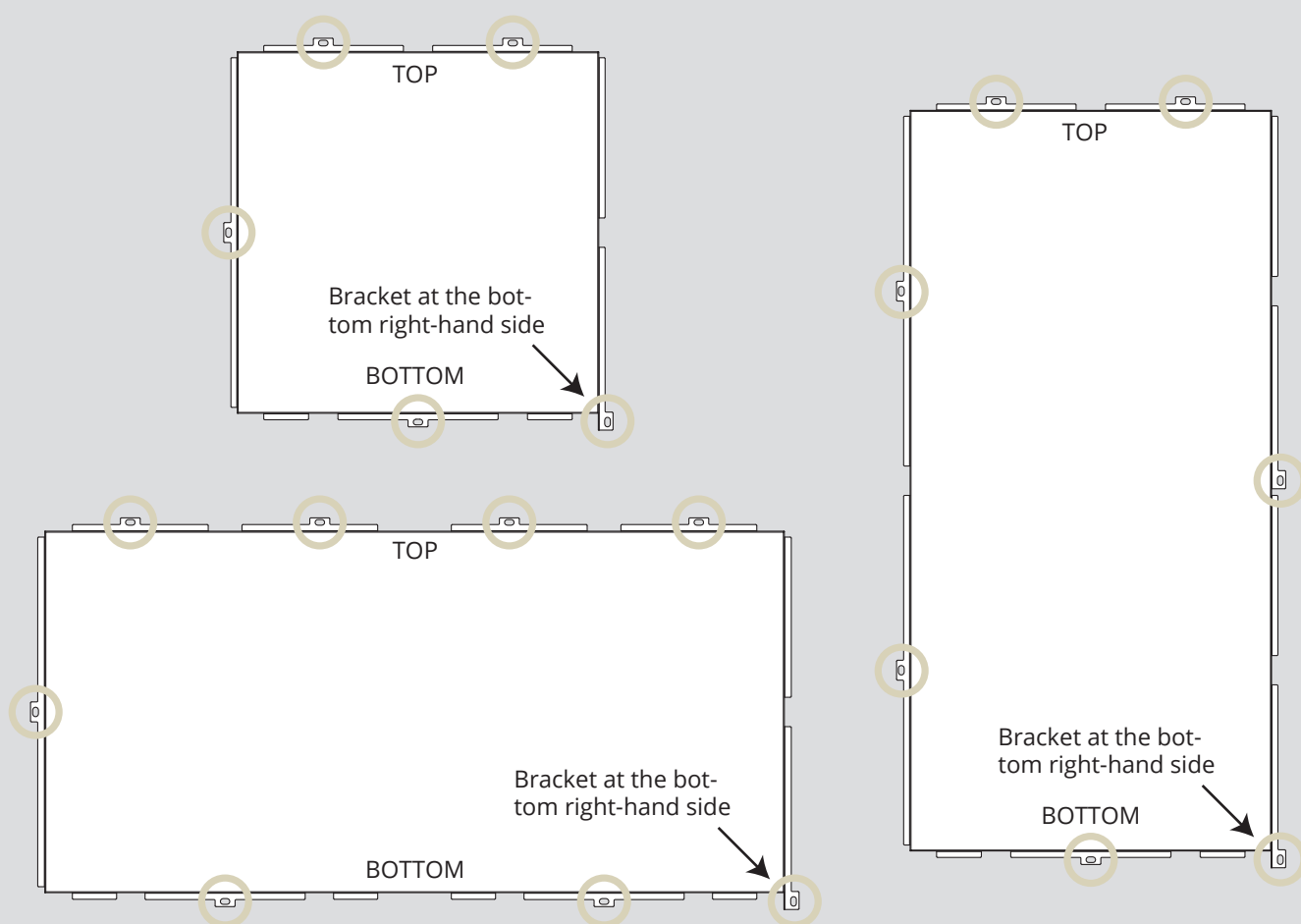
Fasten the V3S Gemello nut manually to hold the perpendicular strip in place



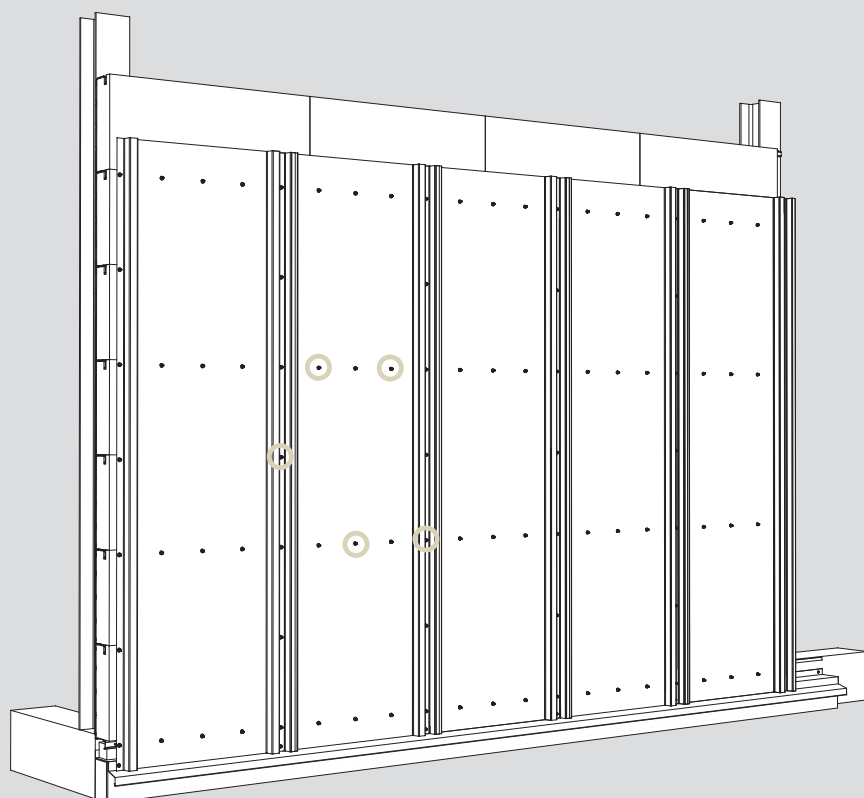
4. Locking the perpendicular strip

Tighten each one of the nuts with the specific Ateliers 3S locking nut key

CASSETTES INSTALLATION



Within the limits of the colours available in post-lacquering. Please note that, unlike sheet metal, accessories are powder-coated, which may result in variations in colour for a given RAL.

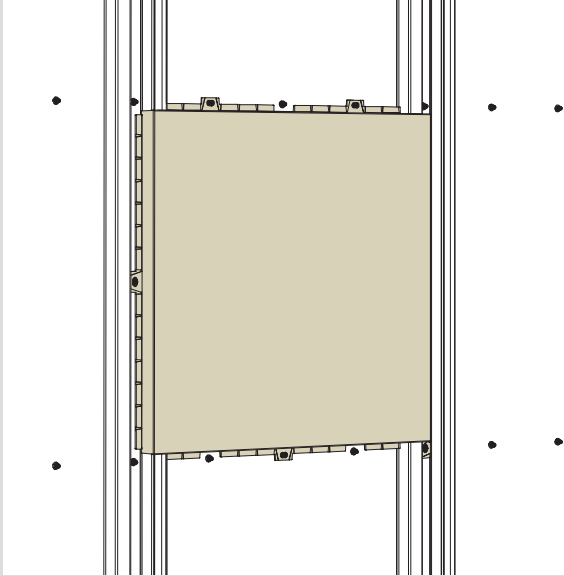


1. Check that the necessary fixing points are available

Use of screws from the V3S screw range for fixing the cladding

5 consecutive fixing points available for the single cassette (7 for the double vertical cassette and 8 for the double horizontal cassette)

The cassettes can be installed on top of all RELIEF profiles except nano.

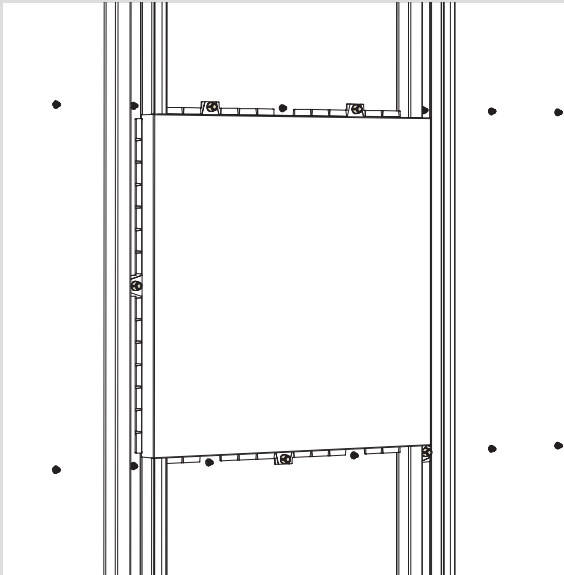


2. Installing the cassette

Press the cassette onto the screw heads

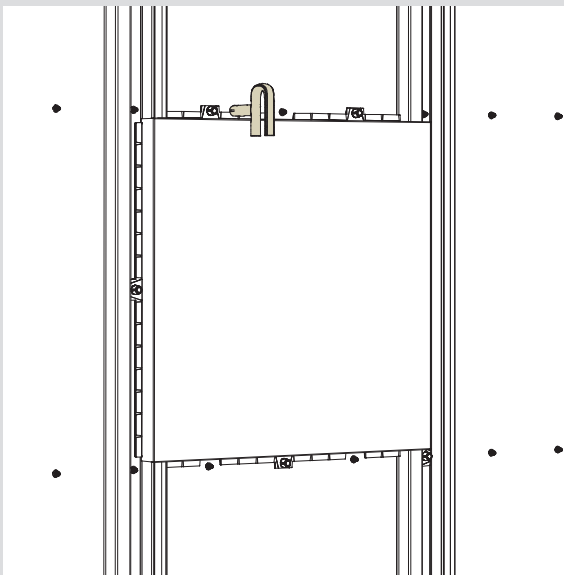
The plastic ring protects the cladding from any accidental scratches

The cassettes are superimposed on watertight cladding and have only a decorative and customizing role, so they can be perforated.



3. Setting the nut

Fasten the V3S Gemello nut manually to hold the cassette in place



4. Locking the cassette

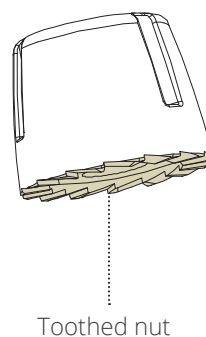
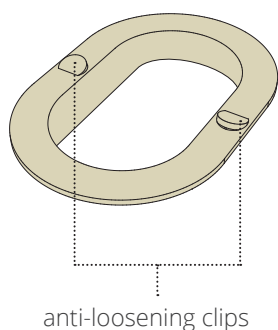
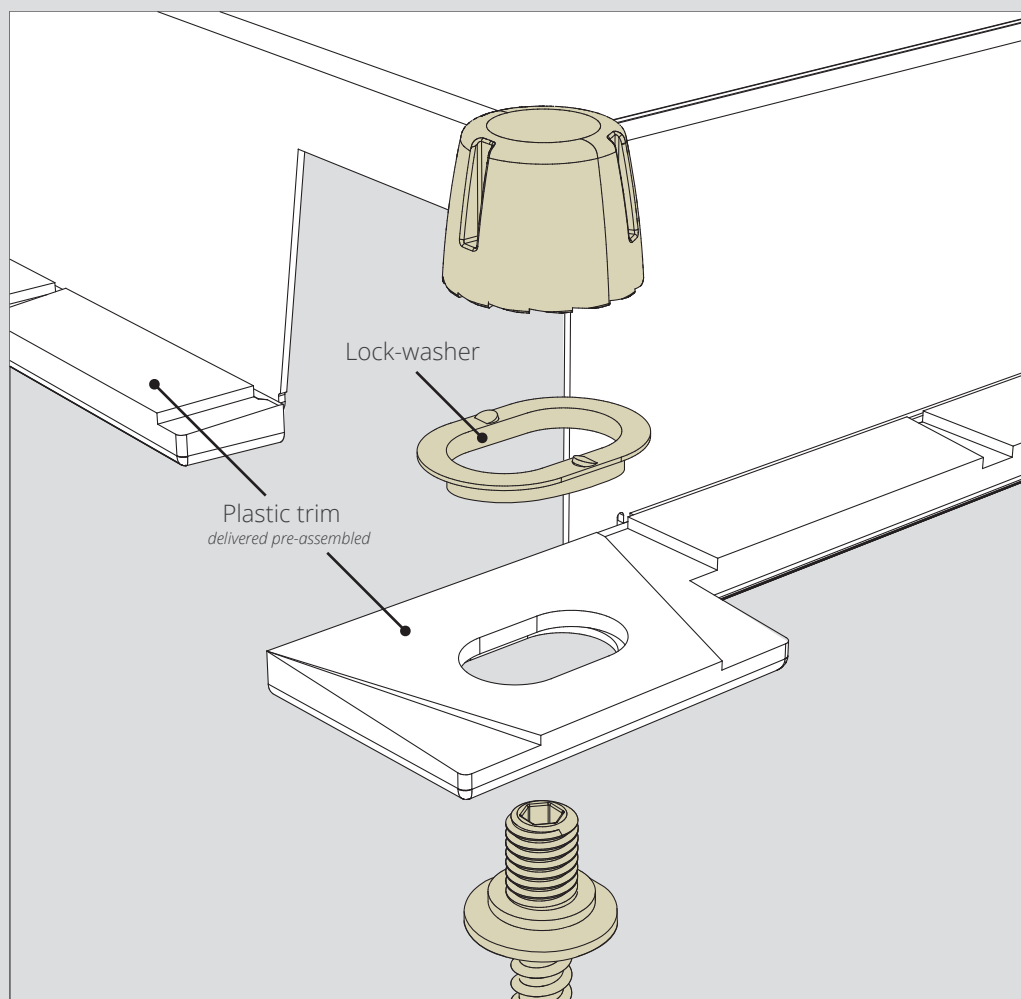
Tighten each one of the nuts with the specific Ateliers 3S locking nut key

A lock-washer will be inserted into each oblong hole in the cassettes, to lock the nut to the toothed surface, to prevent any loosening of the nut over time.

As the mechanical connection is ensured by the lock washer, there is no need to overtighten the nuts.

FIXING THE CASSETTES

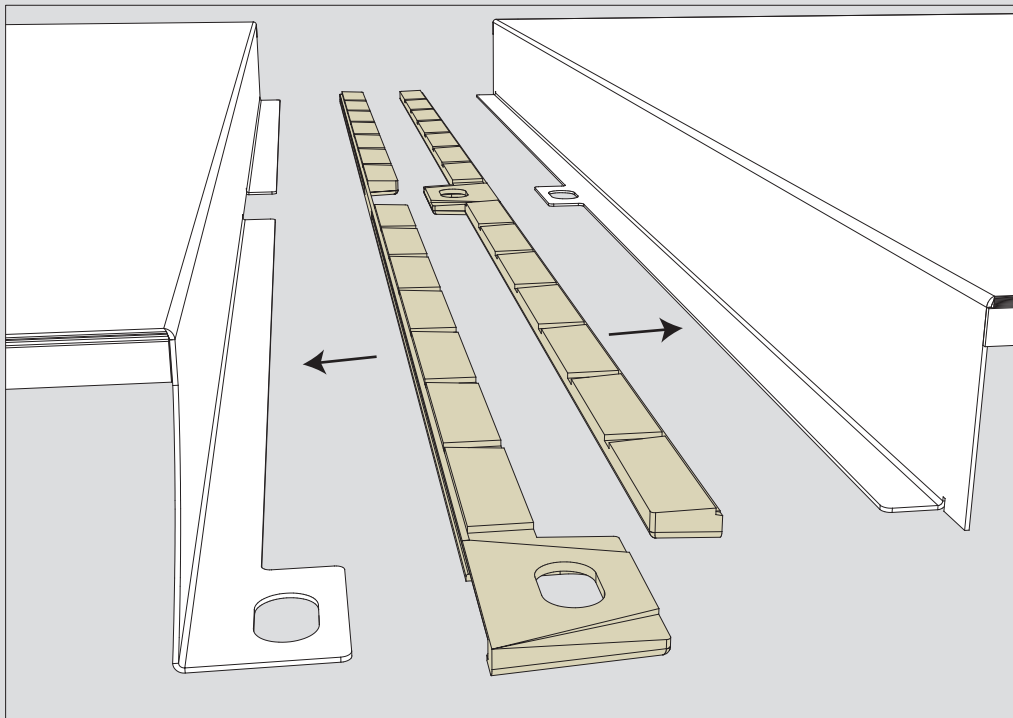
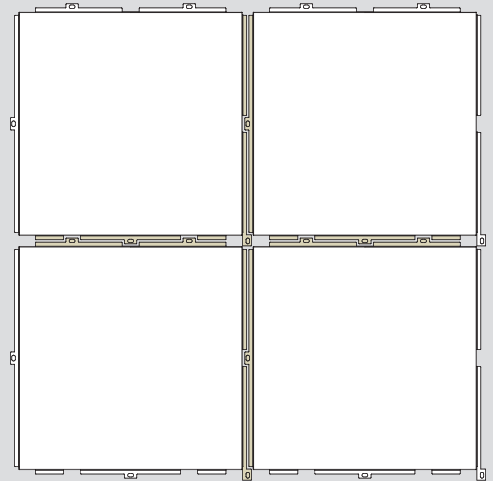
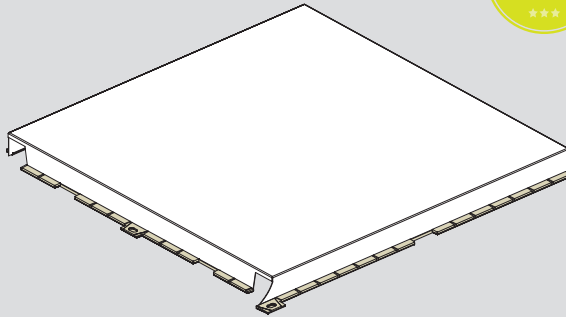
PLASTIC TRIM AND LOCK-WASHER



The stainless steel **lock-washer** has been designed to prevent accidental loosening of the nut, which is toothed. It is installed under the nut.

INSTALLATION

ANTI OVERLAP



ANTI-OVERLAP

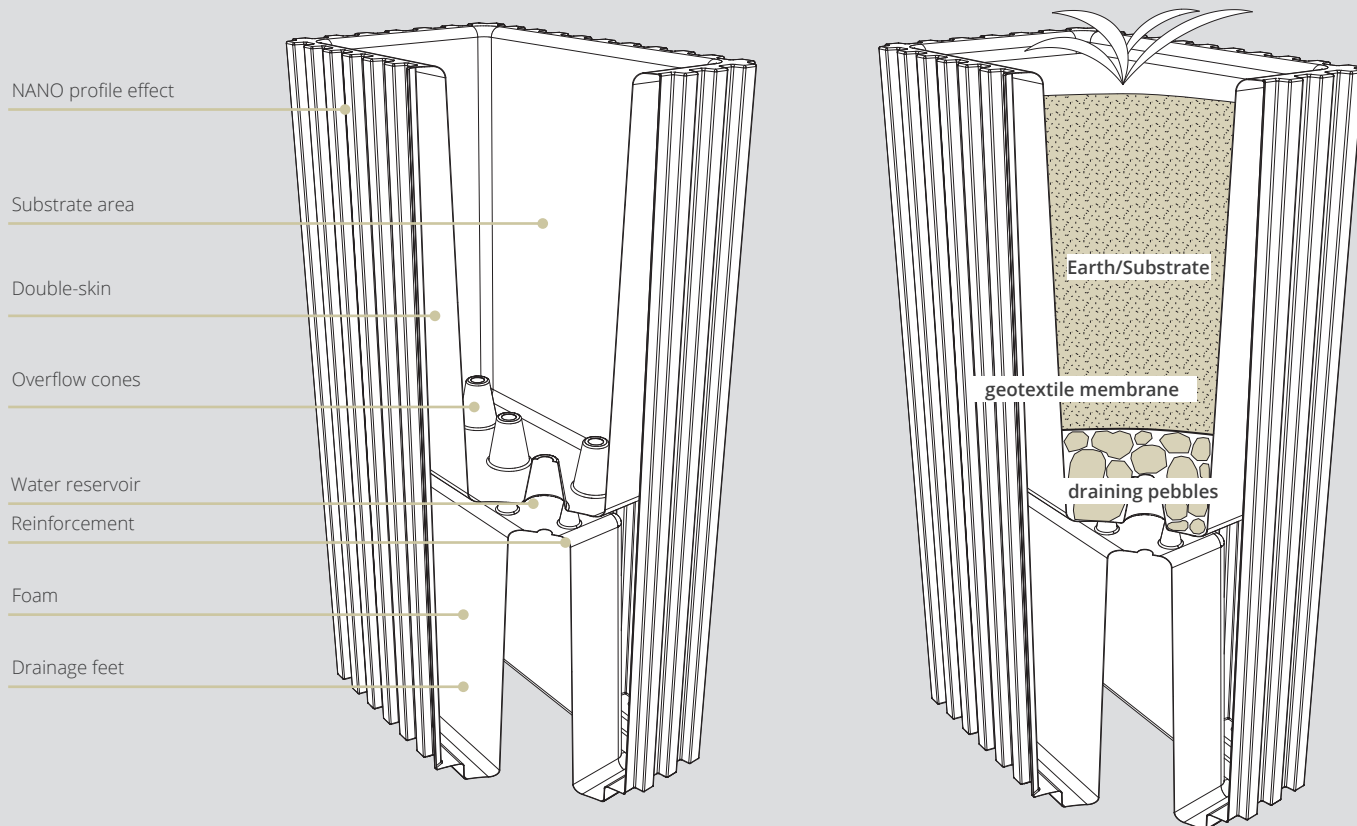
Unlike conventional cassettes, and with a view to simplicity and modularity, each cassette is totally independent from the next one: no order of installation/removal to follow, easy replacement of each cassette, independently of each other.

PLASTIC TRIM

The **plastic trim** has several uses:

- Practical: it prevents any scratches to the sheet metal when installing the cassettes
- Acoustic: it creates a skid between the sheet metal and the cassettes
- Technical: it prevents any contact between the material of the cassette and the paint on the sheet metal (as in the case of cassettes made of Corten steel)
- Aesthetics: it creates a uniform, shadow-coloured hollow joint, whatever the colour of the cassettes is

3S PLANTER



EXAMPLES OF CLIMBING PLANTS WITHOUT SUCTION CUP FEET



Ivy (to avoid)



Honeysuckle



Climbing jasmine



Clematis

3S PLANTER

Rotomoulded in UV-resistant polyethylene, the 3S planter has been specially designed to enhance RELIEF facades.

With its built-in water reservoir, it is self-sufficient for sustainable planting.

Designed to adapt to the latticework of the metal sheets, it can be used to adorn your facade with plants.

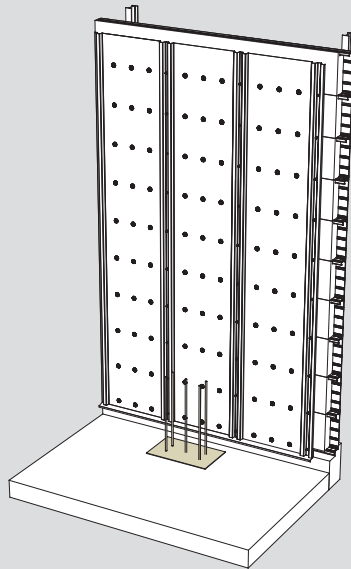
The planter can be installed after the 3S claddings have been finished.

FILLING

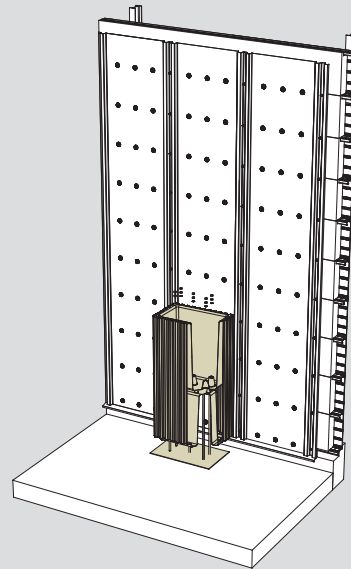
Here are a few tips on how to use your planter to maximise its performance:

- Place pebbles with a diameter of at least 7cm at the bottom, about 30cm high, to allow the reservoir to fulfil its function by means of its overflow cones.
- Place a geotextile membrane on top of the pebbles
- Fill the rest of the planter with a mixture of soil and plant substrate (it's best to leave a margin of at least 10cm at the top of the planter to avoid any overflow).

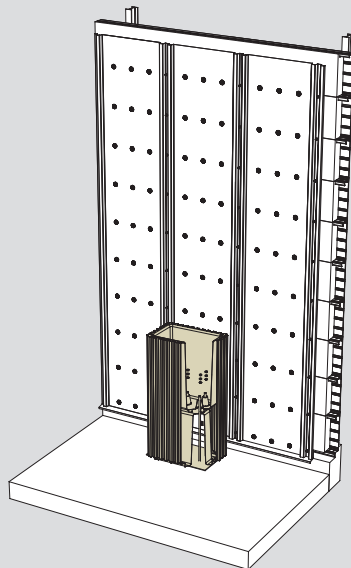
INSTALLATION



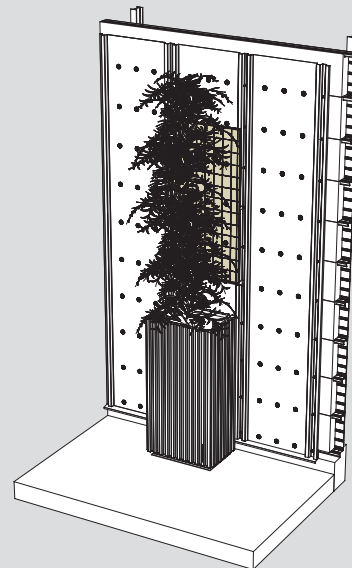
STEP 1



STEP 2



STEP 3



STEP 4

INSTALLATION

For safety reasons (theft, tipping over, etc.), we recommend that you lay a concrete slab with threaded metal rods to embed the planter. In this case, the steps to install are as follows:

- **Step 1** : Lay a concrete slab with dimensions to allow M16 threaded rods to protrude 820mm from the ground.
- **Step 2** : Insert the planter.
- **Step 3** : Bolting with two nuts per rod.
- **Step 4** : Filling with soil/substrates, installing the plants and fitting the trellis (see 'THE CASSETTES INSTALLATION' section).

3S TREILLIS

Designed on the same principle as the cassettes, with the same fixing points, the 3S trellis is a standard accessory, allowing you to vegetalize your cladding with climbing plants*. This element is made from protected and post-painted steel, or simply galvanised.

Thanks to its geometry, it can be installed and moved independently of other accessories, in the same way as cassettes. The trellis can be used in addition to the planter to grow plants, or as a decorative accessory of its own.

CAUTION : We strongly recommend using climbing plants without suction cup feet. The trellis will allow them to grow in a controlled manner, without spreading over the cladding.
(The weight of the plants is limited to 10 kg per trellis).



FINISHING PROFILES



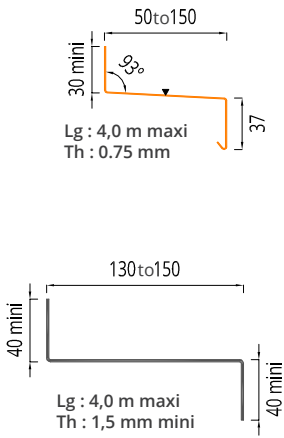
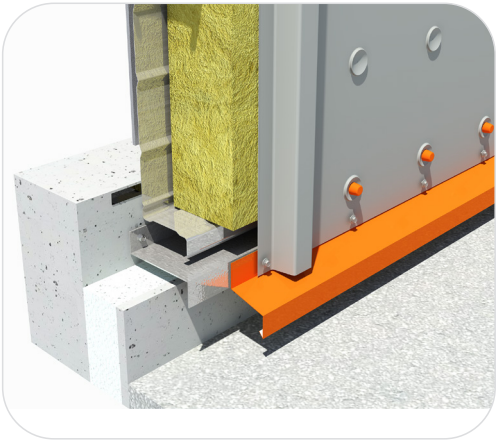
Beyond the aesthetic quality of its cladding panels, a successful metal facade requires precise and well-designed finishing profiles. ATELIERS 3S takes particular care to offer discreet elements that connect with the styles of the associated cladding.

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.

FACADE BOTTOM

DRIP EDGE
VERTICAL APPLICATION

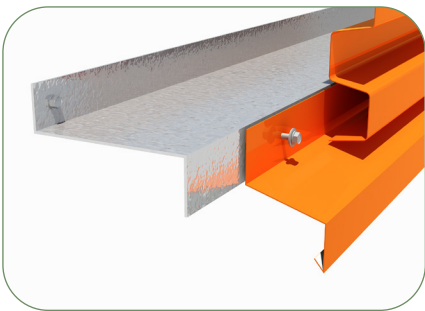
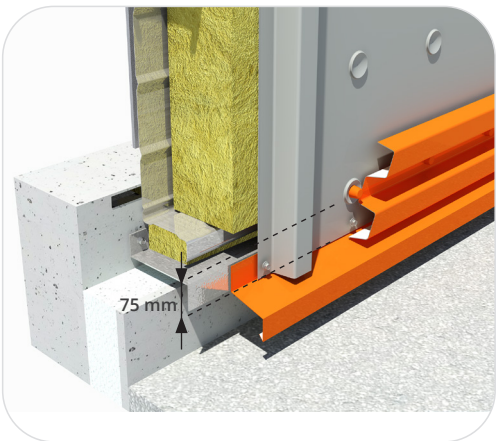


FACADE BOTTOM

PERPENDICULAR STRIP AND DRIP EDGE
VERTICAL APPLICATION

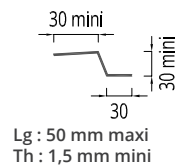
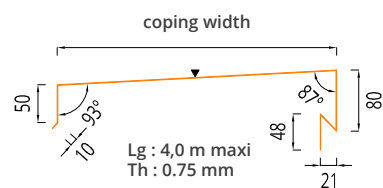
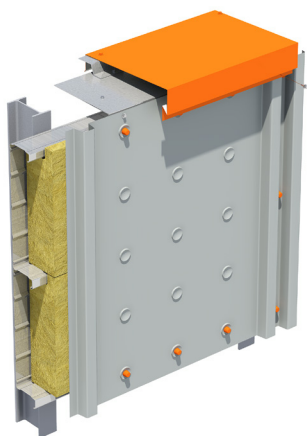
Installation with a perpendicular strip :

Allow a 75mm height minimum below the first line of fixings and the bottom of the perpendicular to install the drip edge profile



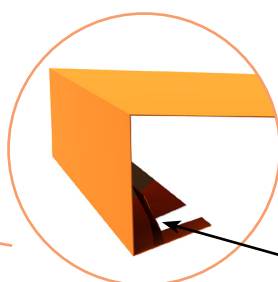
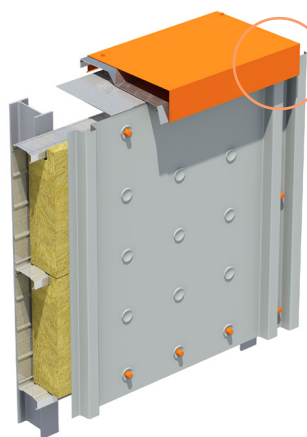
FACADE TOP

COPING VERTICAL AND HORIZONTAL APPLICATION



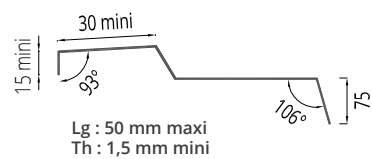
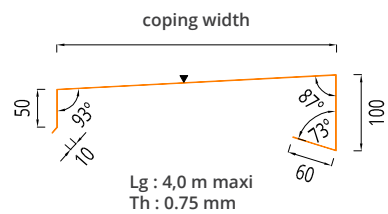
FACADE TOP

COPING VERTICAL APPLICATION



Ribs cutting-out bended inside

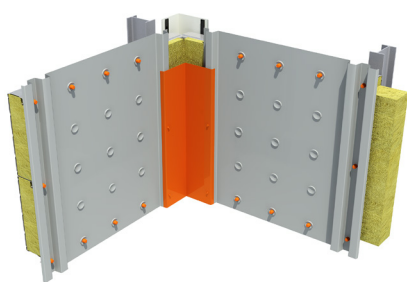
Caution : cutting-out to be made on jobsite



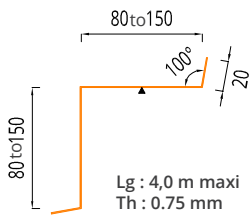
▼ Lacquered side

FINISHING PROFILES

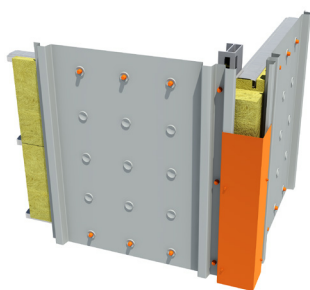
INSIDE CORNER



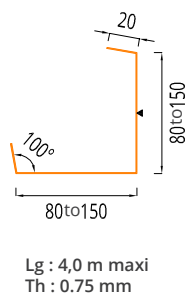
SCREWED COVER VERTICAL APPLICATION



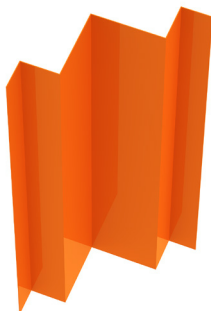
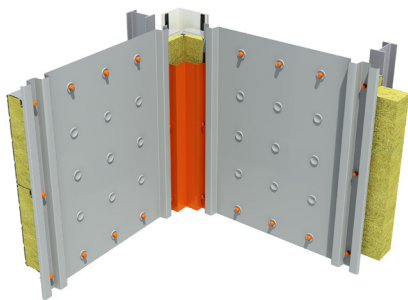
OUTSIDE CORNER



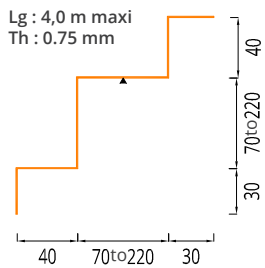
SCREWED COVER VERTICAL APPLICATION



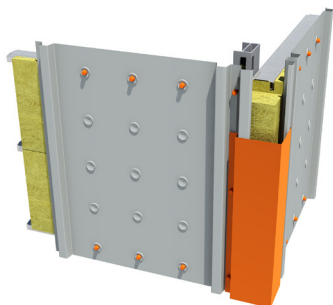
INSIDE CORNER



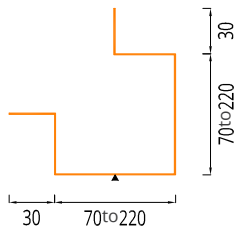
3S COVER VERTICAL APPLICATION



OUTSIDE CORNER



3S COVER VERTICAL APPLICATION

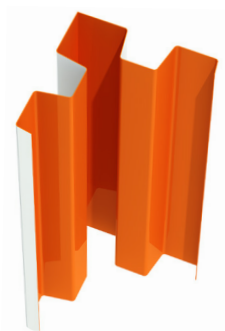
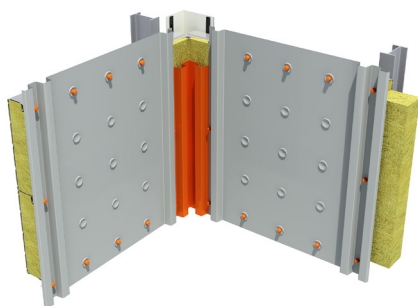


Lg : 4,0 m maxi
Th : 0.75 mm

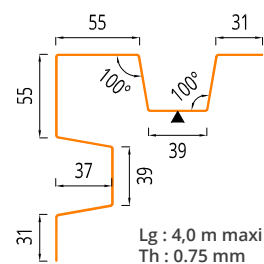
▼ Lacquered side

FINISHING PROFILES

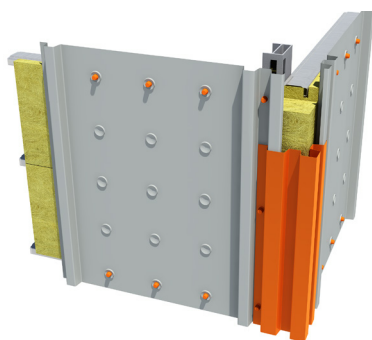
INSIDE CORNER



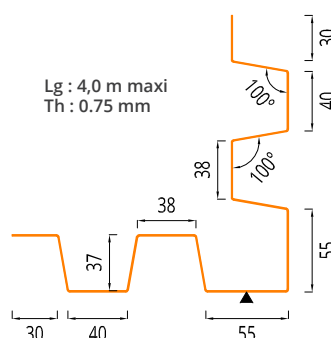
NANO CORNER
VERTICAL APPLICATION



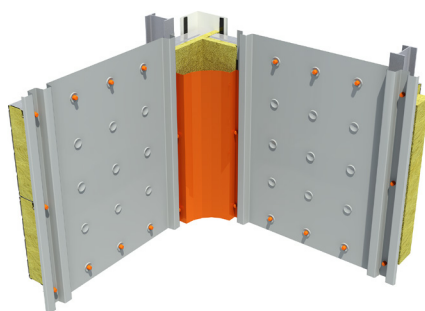
OUTSIDE CORNER



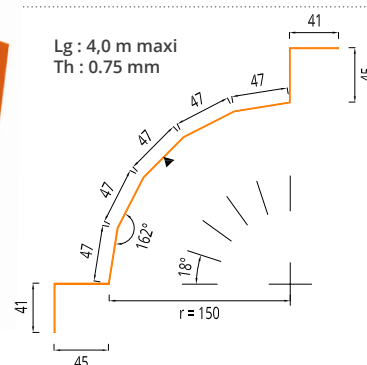
NANO CORNER
VERTICAL APPLICATION



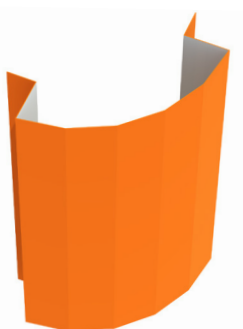
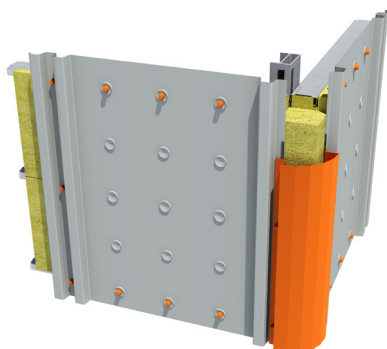
INSIDE CORNER



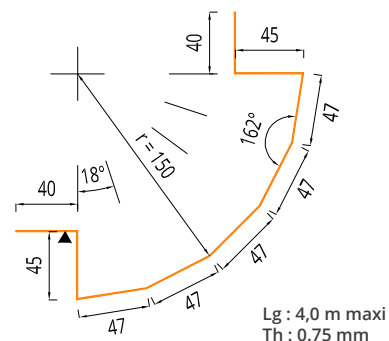
CURVED CORNER
VERTICAL APPLICATION



OUTSIDE CORNER



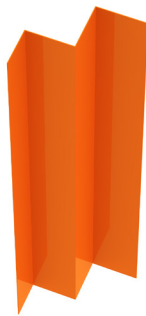
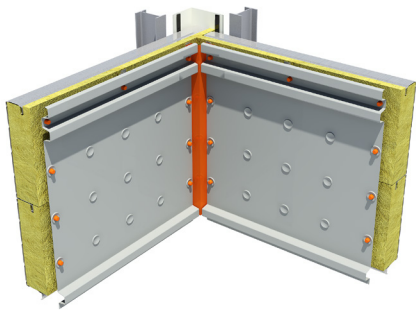
CURVED CORNER
VERTICAL APPLICATION



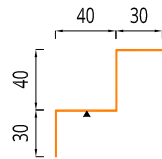
▼ Lacquered side

FINISHING PROFILES

INSIDE CORNER

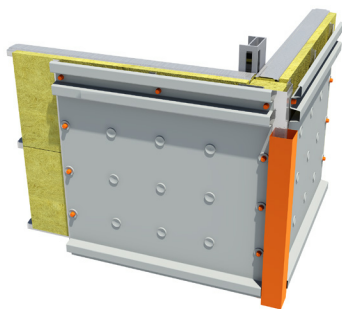


«W» CORNER
HORIZONTAL APPLICATION

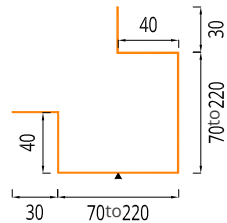


Lg : 4,0 m maxi
Th : 0.75 mm

OUTSIDE CORNER

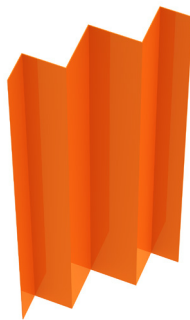
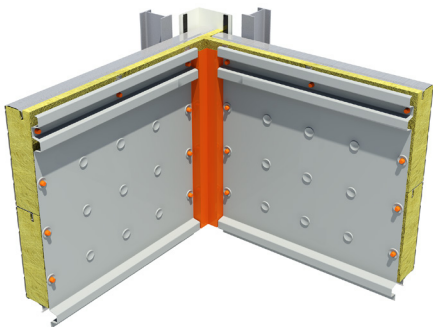


SCREWED COVER
HORIZONTAL APPLICATION

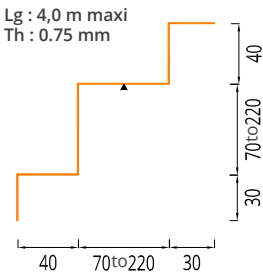


Lg : 4,0 m maxi
Th : 0.75 mm

INSIDE CORNER

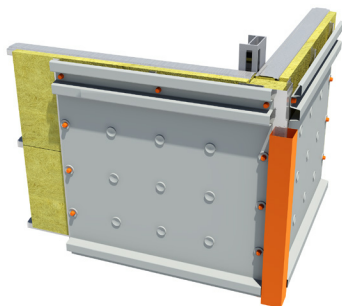


«ACCORDION» CORNER
HORIZONTAL APPLICATION

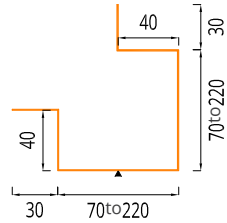


Lg : 4,0 m maxi
Th : 0.75 mm

OUTSIDE CORNER



SCREWED COVER
HORIZONTAL APPLICATION

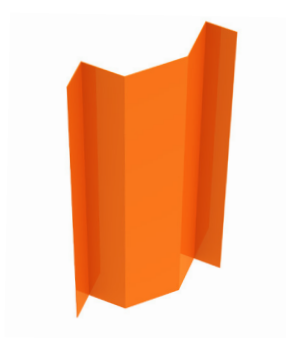
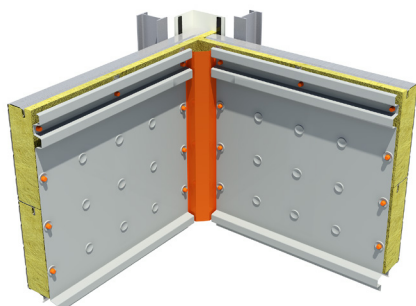


Lg : 4,0 m maxi
Th : 0.75 mm

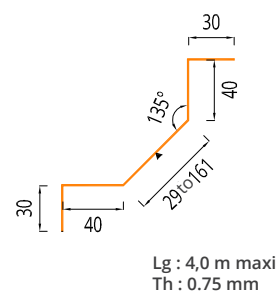
▼ Lacquered side

FINISHING PROFILES

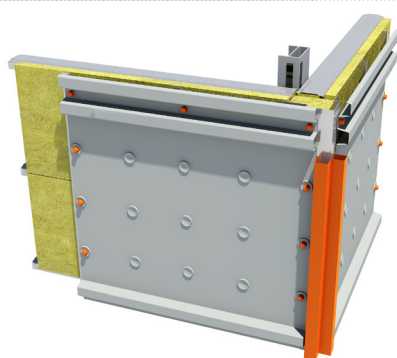
INSIDE CORNER



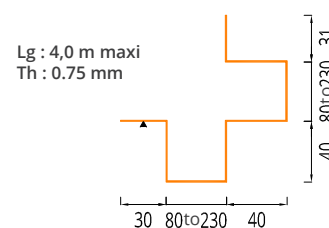
«SEGMENTED» CORNER
HORIZONTAL APPLICATION



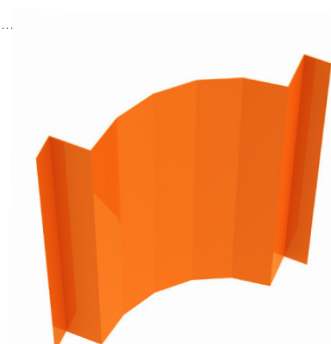
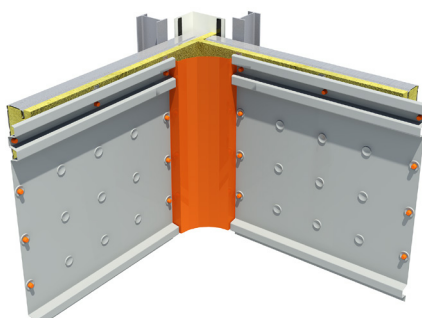
OUTSIDE CORNER



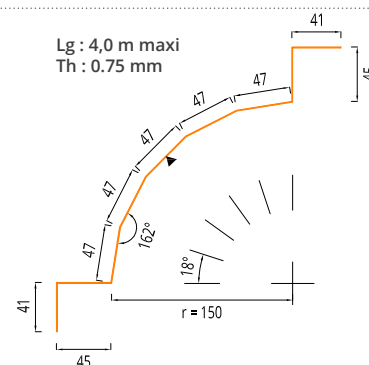
“QUIRK-MITERED” CORNER
HORIZONTAL APPLICATION



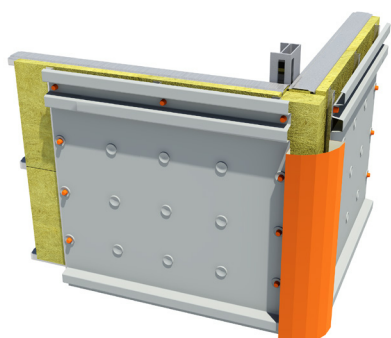
INSIDE CORNER



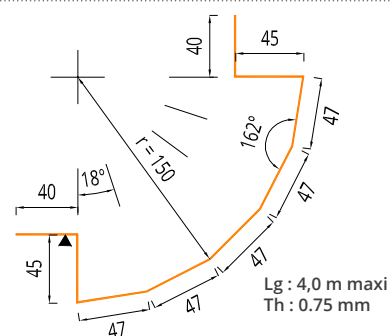
CURVED CORNER
HORIZONTAL APPLICATION



OUTSIDE CORNER



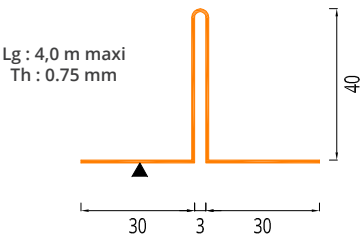
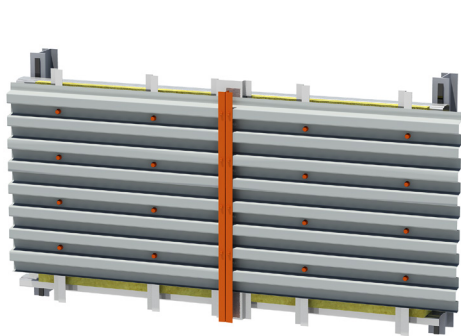
CURVED CORNER
HORIZONTAL APPLICATION



▼ Lacquered side

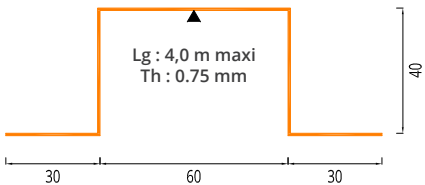
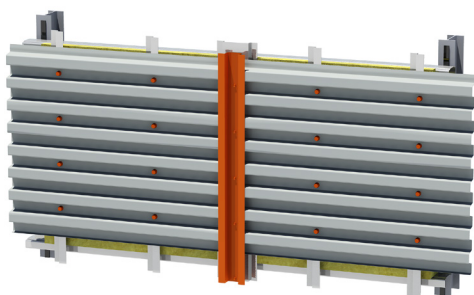
JUNCTION

REVERSED PIN JOINT
HORIZONTAL APPLICATION



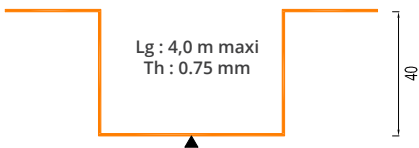
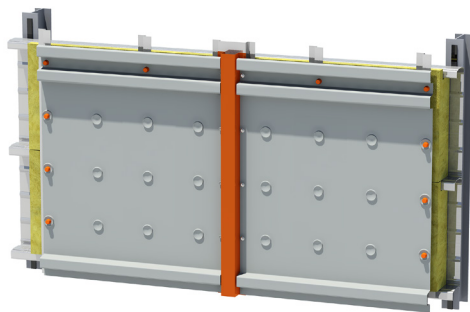
JUNCTION

FALSE JOINT
HORIZONTAL APPLICATION



JUNCTION

PILAR JOINT
HORIZONTAL APPLICATION

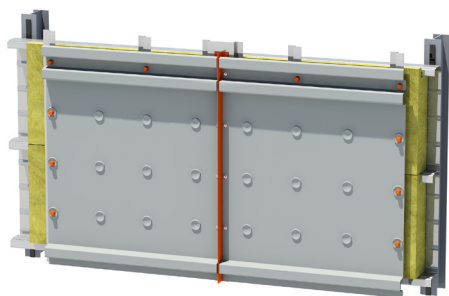


▼ Lacquered side

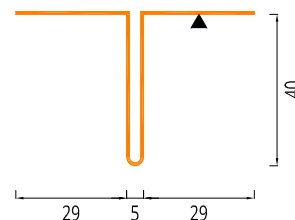
FINISHING PROFILES

JUNCTION

PIN JOINT HORIZONTAL APPLICATION

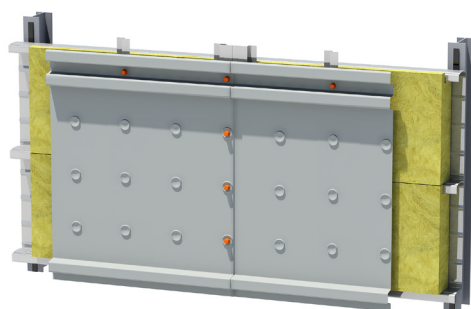


Lg : 4,0 m maxi
Th : 0.75 mm



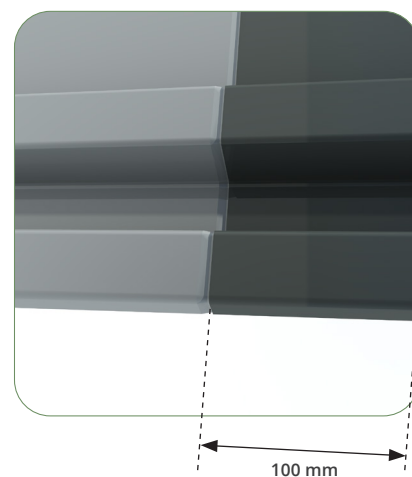
JUNCTION

RECESSED OVERLAP HORIZONTAL APPLICATION



Recessed overlap upon request :

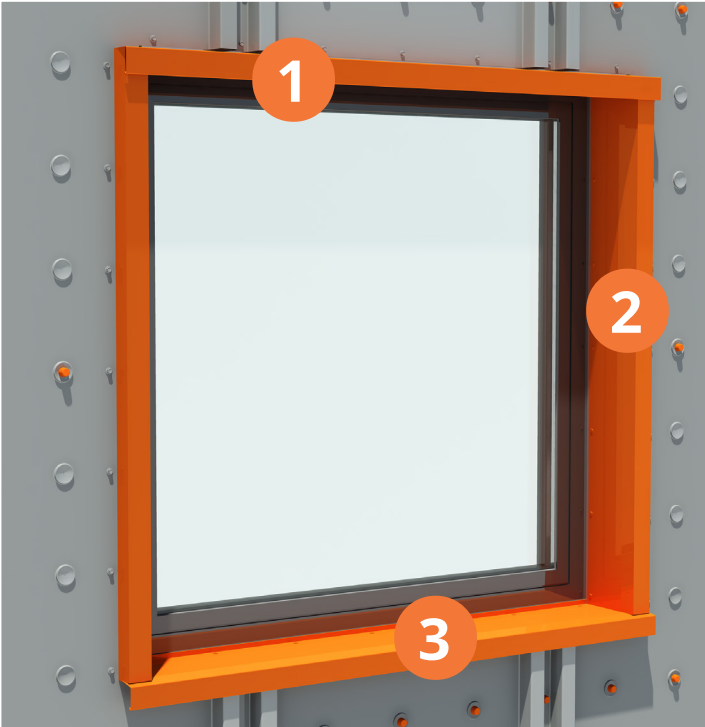
- > 1mm joint on a 100mm overlap width
- > Recessed overlap in both directions



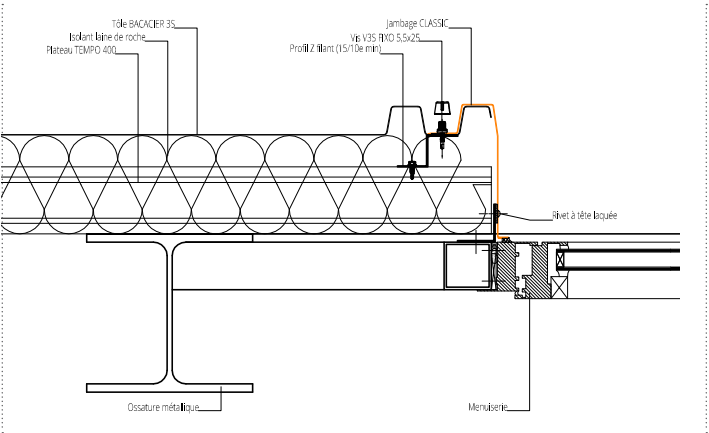
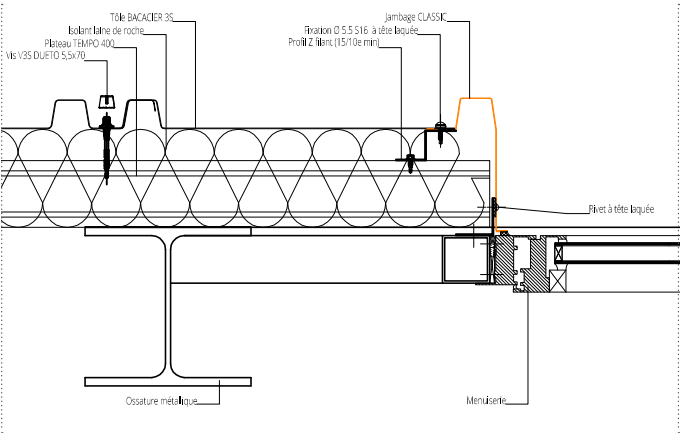
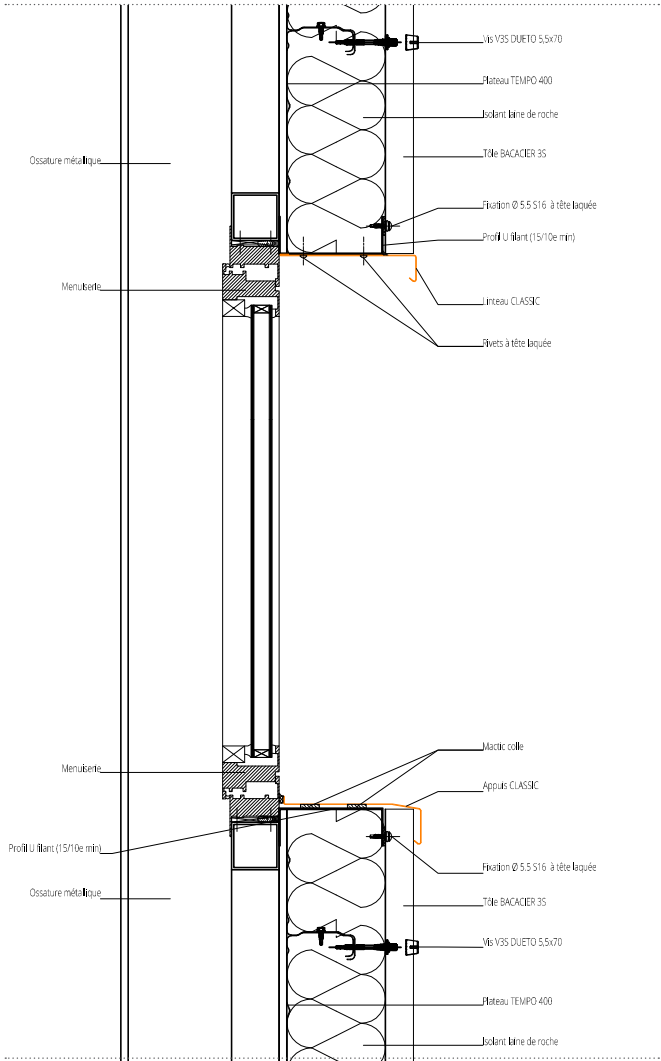
Caution : recessed overlap only possible for stamped profiles (POINT, PERSIENNE, ROCHER and VEGETAL).
Not possible for NANO 710 profiles

▼ Lacquered side

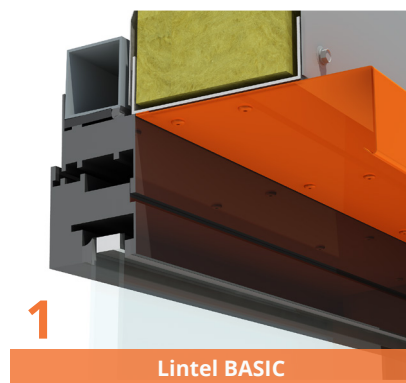
OPENING



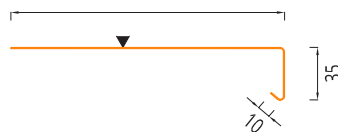
OPENING 1
VERTICAL AND HORIZONTAL APPLICATION



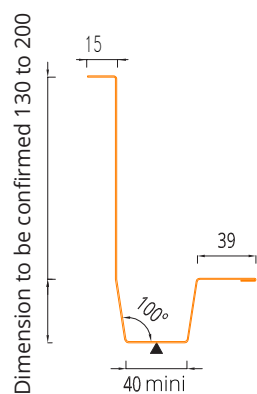
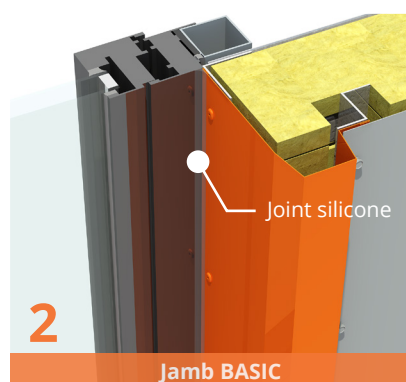
FINISHING PROFILES



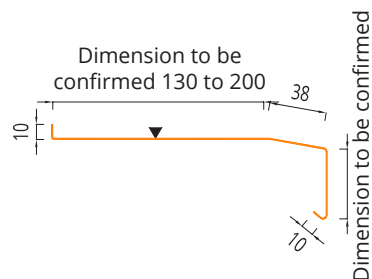
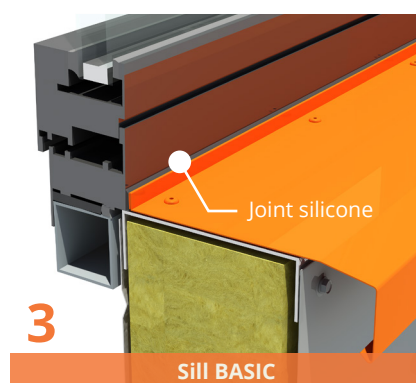
Dimension to be confirmed 180 to 250



Th 0.75 mm Length 4 m maxi

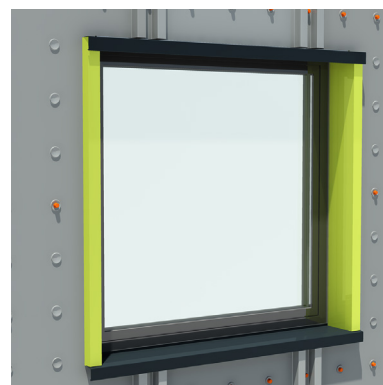


Th 0.75 mm Length 4 m maxi



Th 0.75 mm Length 4 m maxi

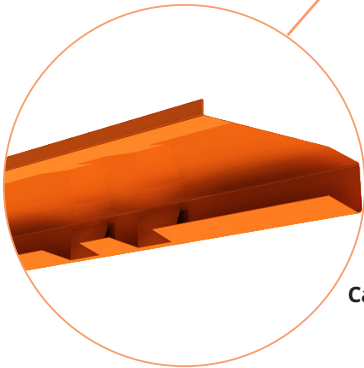
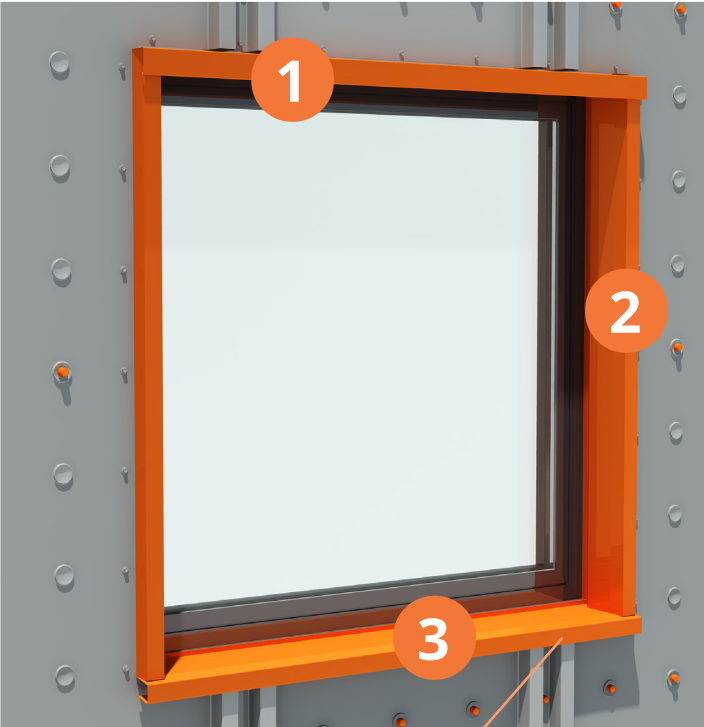
▼ Lacquered side



The 3S touch : customization

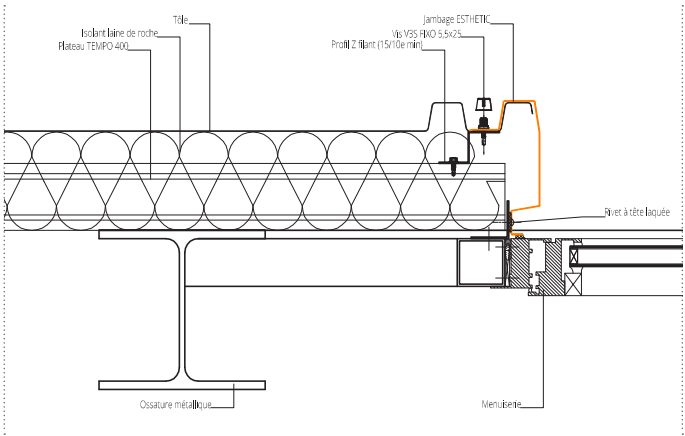
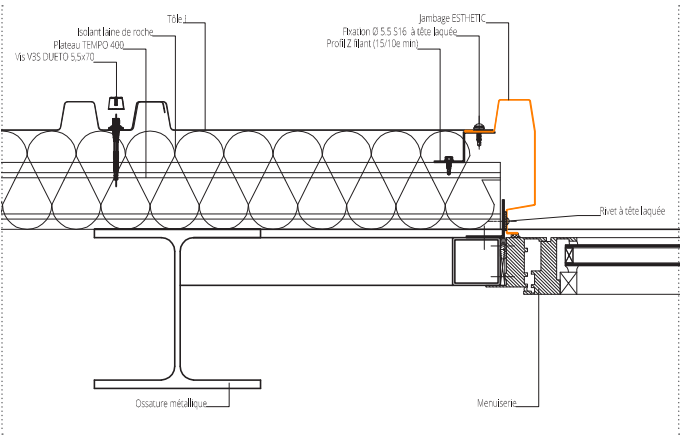
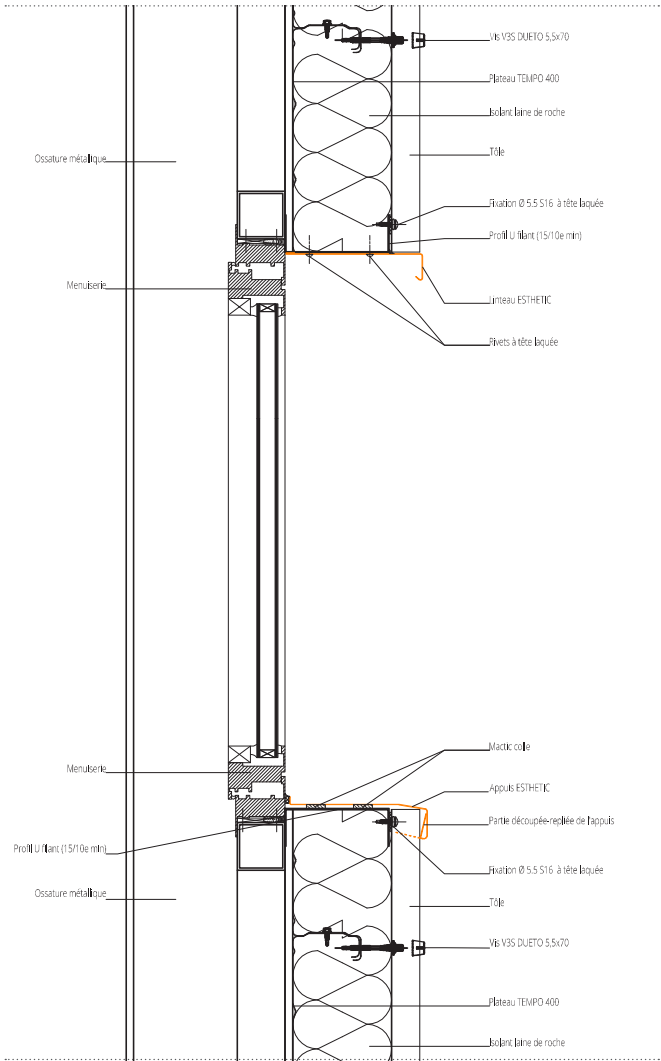
These finishing profiles are based on techniques already commonly used for opening profiles. To create even more personal buildings, you can play with colours by mixing the colours of the jambs, sills and lintels. You can also vary the thickness of the finishing profiles to make the openings stand out, or on the contrary, make the profiles as discreet as possible by making them as thin as possible.

OPENING

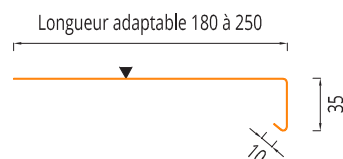
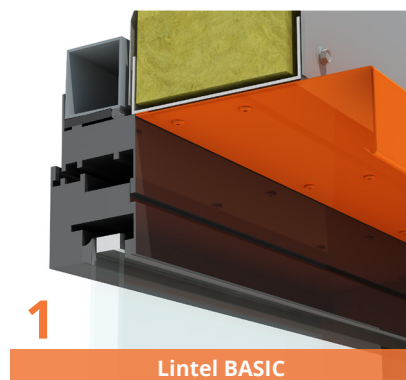


Caution : cutting-out to be made on jobsite

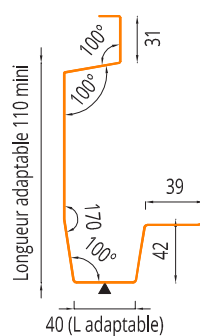
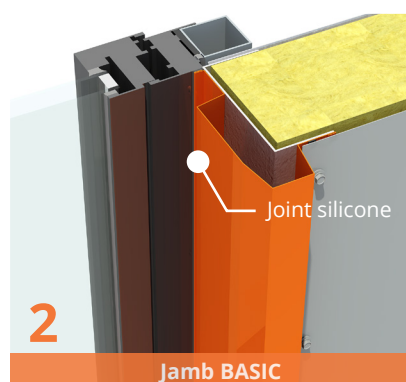
OPENING 2
VERTICAL APPLICATION



FINISHING PROFILES



Th 0.75 mm Length 4 m maxi



Th 0.75 mm Length 4 m maxi

3

Sill BASIC

Joint silicone

Caution :
cutting-out to be
made on jobsite

RECOMMENDED SOLUTION

Th 0.75 mm Length 4 m maxi

▼ Lacquered side

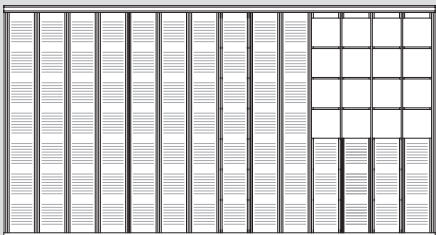
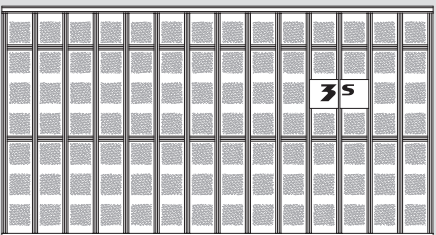
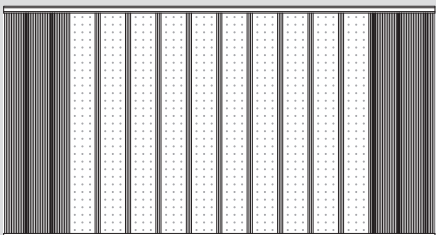
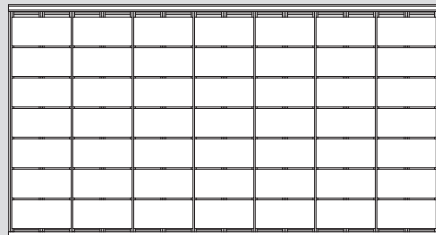
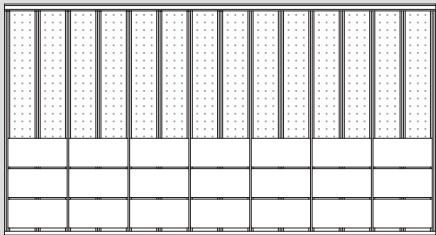
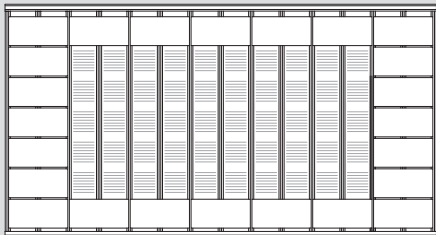
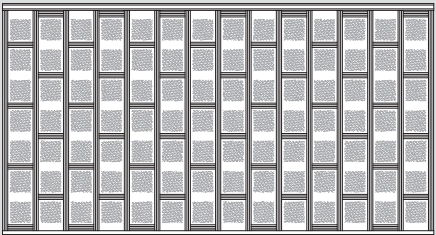
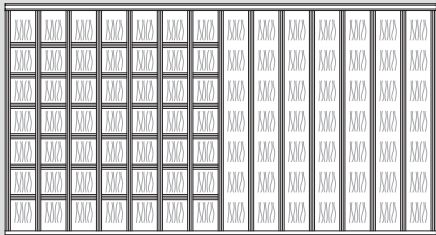
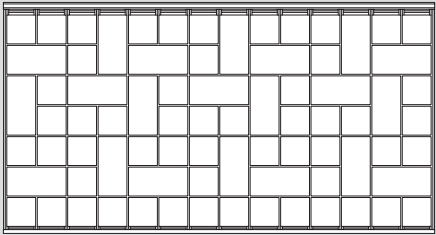
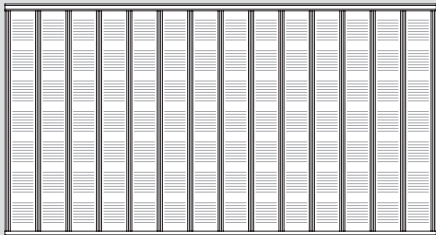


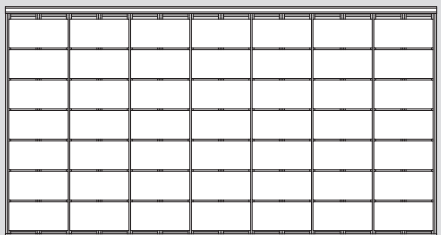
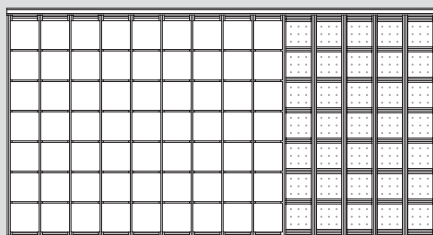
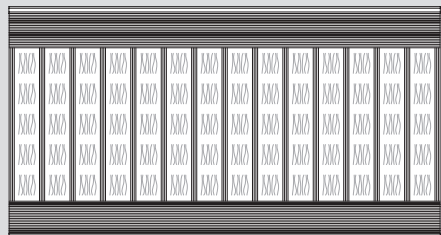
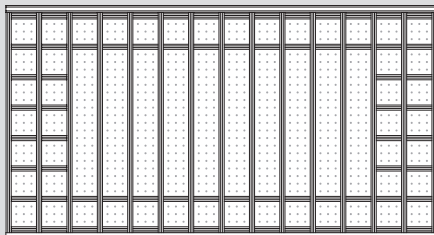
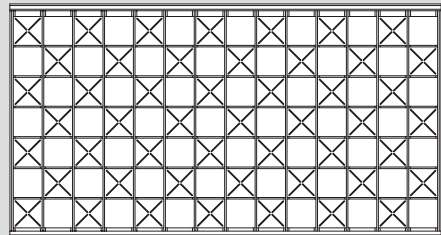
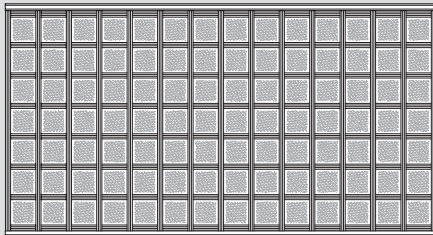
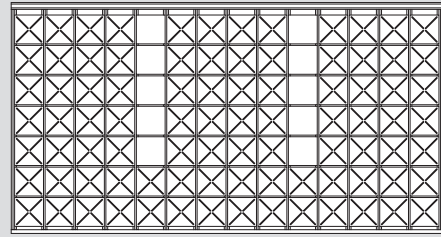
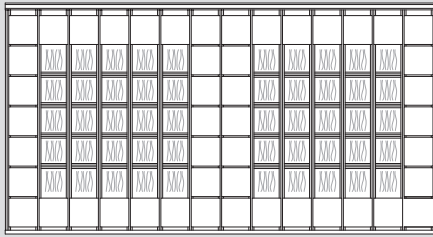
The 3S touch : customization

The aesthetic finishing profiles follow the shape of the ribs of the RELIEF range profiles. At the sill, the profile matches the shape of the sheet and is cut at the rib to fit perfectly with the steel panel. In the jamb, the profile creates a hollow joint that conceals the fixings from the outside. From the inside of the building, on the other hand, it offers the possibility of creating a discreet play of colour, by varying the colour of the GEMELLO nut.



DESIGNS PROPOSALS







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BY
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BY
PRODUCTS

BY
COLORS

BY
LOCATION

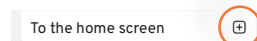


Tip to add the app directly
to your home screen
without going through the
Store:

1- At the bottom of your page click here:



2- Scroll and choose the option:







COLOR CHART

Colours and materials **used**

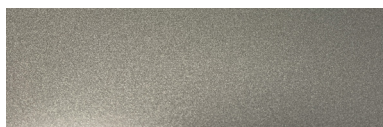
ORIGINAL

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

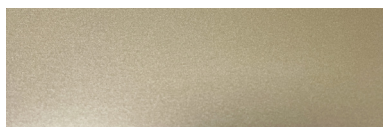
METALLIC



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



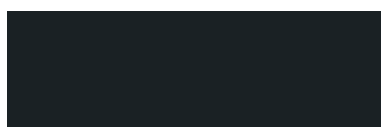
POP 0204 35µm



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.

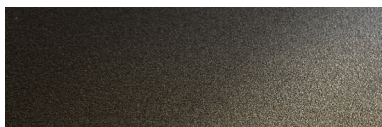
Colours and materials **used**

MATERIALS

Coatings that are as fabulous as the materials.



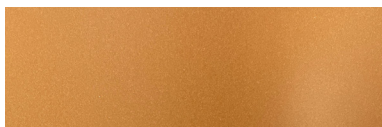
OXYDE 0602 35µm



DARK BRONZE 0604 50µm



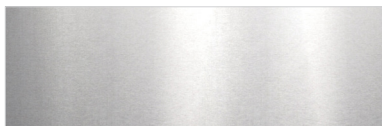
INTENSE GOLD 6995 35µm



COPPER 0603 35µm

ROUGH

Reveal the nobility of raw materials.



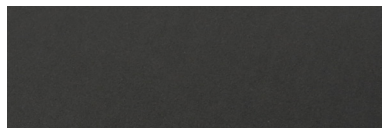
STAINLESS STEEL 0302
Shiny



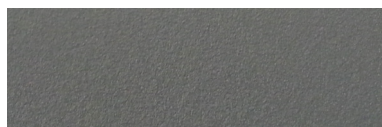
SURFACE GRAIN 0301
Galvanized steel with high-precision grain

ZINC SPIRIT

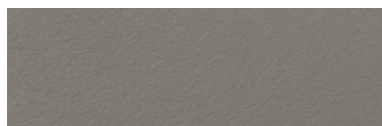
Deep matte and very fine texture for a true-to-life zinc effect.



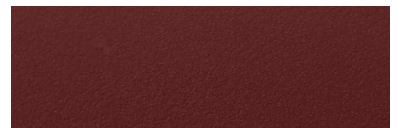
NERRO 0104 50µm



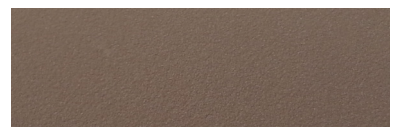
GALEO 0103 50µm



AZURO 0102 50µm



VINO 0106 50µm



VOLCANO 0101 50µm



BIANCO 0105 50µm

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 (MINI)
0426 (MAXI)



NATURAL OAK (ALL WOOD) 0403 47µm



HAZELNUT OAK (BLACK BANDS) 0405 47µm



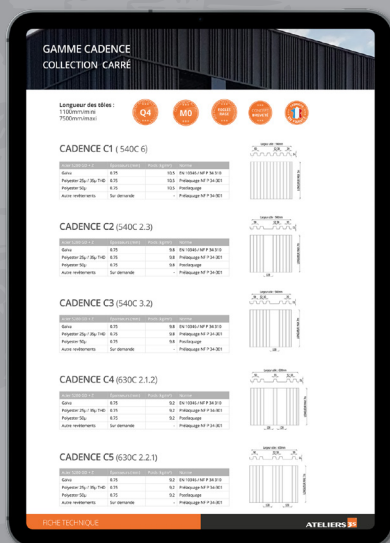
HAZELNUT OAK (ALL WOOD) 0402 47µm



COFFEE OAK (BLACK BANDS) 0407 47µm



COFFEE OAK (ALL WOOD) 0404 47µm



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03/02/2026