

SERBOND®

FACCIA TE ARCHITETTONICHE

PANNELLI
elcom system
PERUGIA

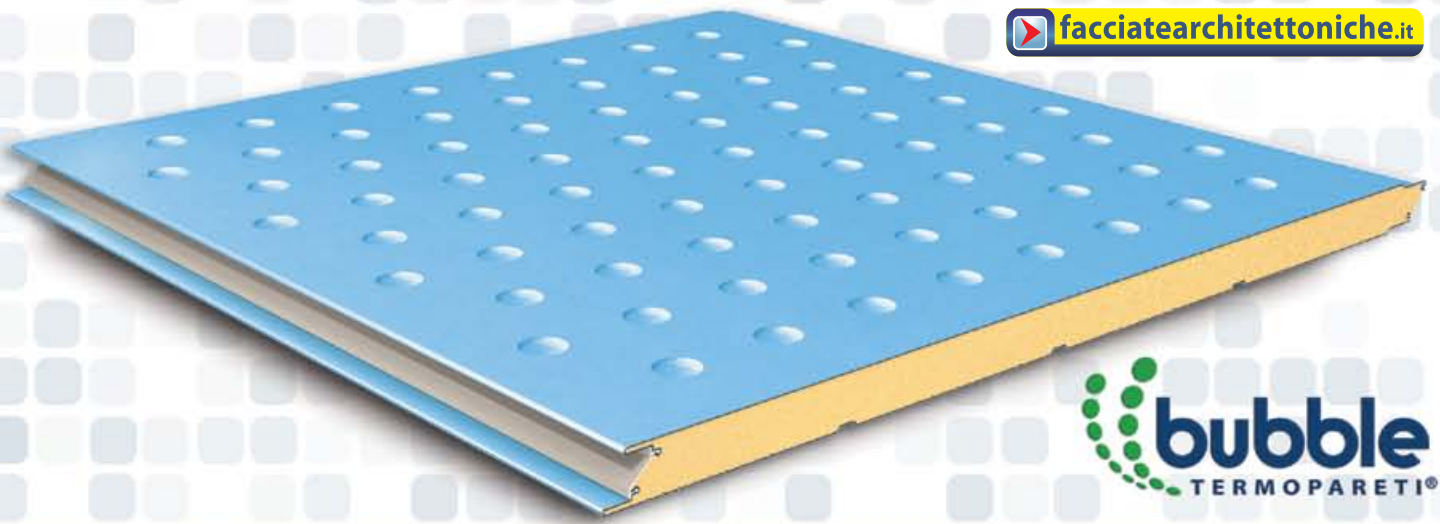
progetti, proposte, prodotti.®

Benvenuti nel mondo dei Sistemi

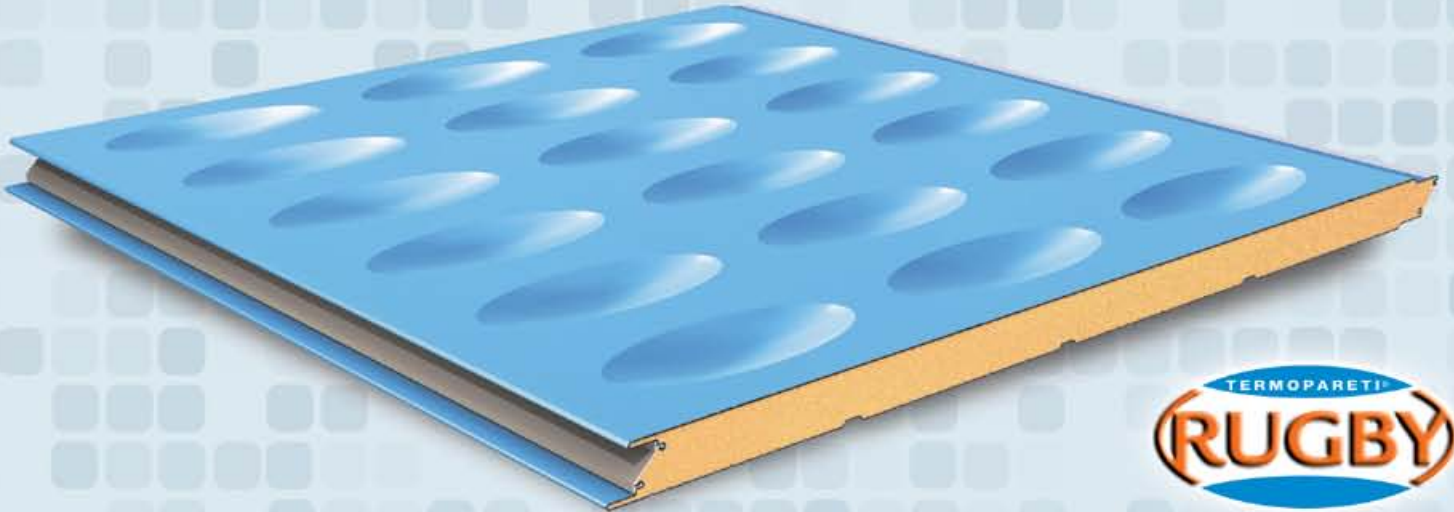


LE GEOMETRIE

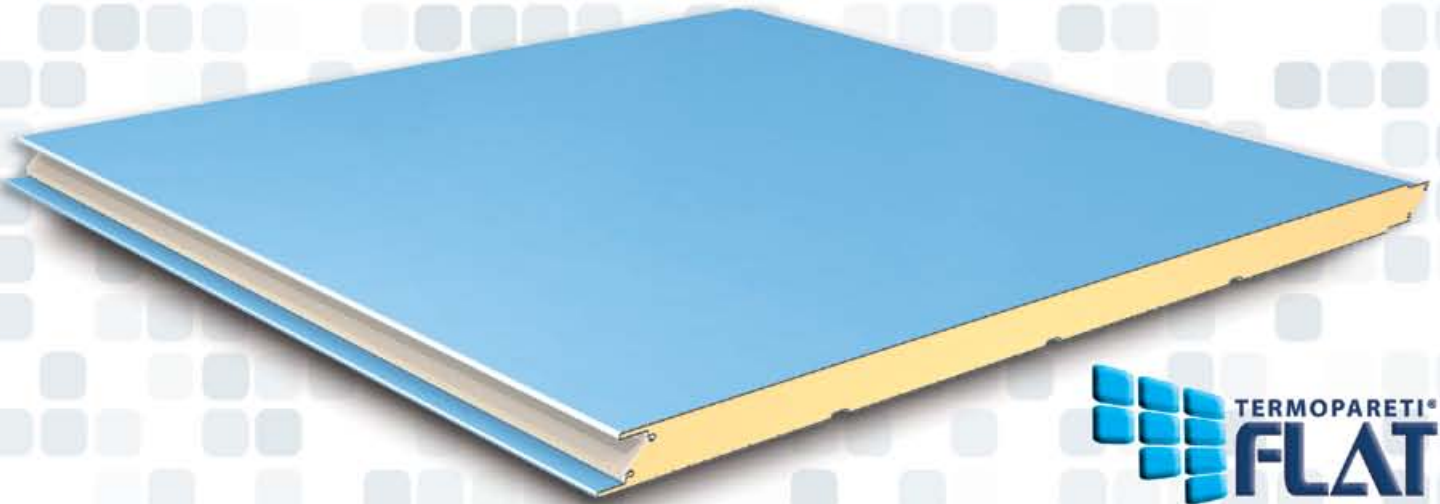
ARDITE REALIZZAZIONI
CHE FANNO ARCHITETTURA



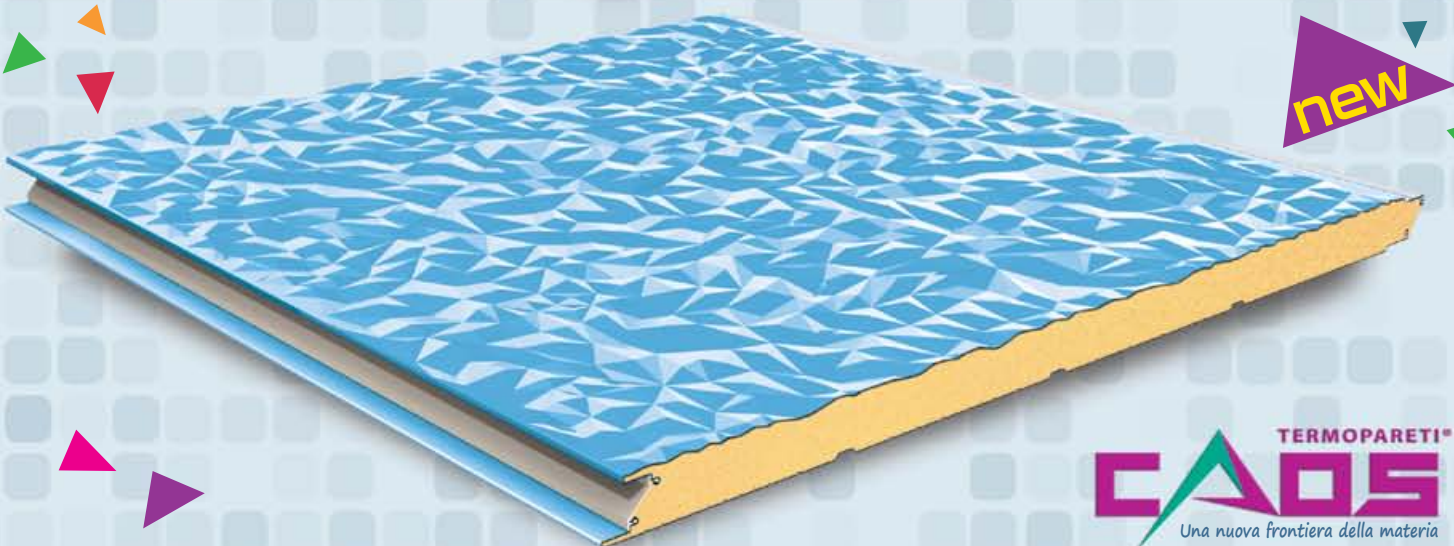
bubble
TERMOPARETI®



TERMOPARETI®
RUGBY



TERMOPARETI®
FLAT



TERMOPARETI®
CAOS
Una nuova frontiera della materia



FACCIATE ARCHITETTONICHE SERBOND®

SISTEMA PER L'EFFICIENTAMENTO E LA RIQUALIFICAZIONE ENERGETICA ED ARCHITETTONICA
ARCHITECTURAL WALL CLADDINGS FOR NEW BUILDINGS, FOR RENOVATIONS AND ENERGY-UPGRADING

Il concetto di rivestimento **SERBOND®** è sviluppato intorno ad una idea nata per offrire ai progettisti una elevata libertà creativa, svincolati da moduli produttivi rigidi o griglie geometriche preimpostate. L'utilizzo di questo particolare rivestimento, è prevalentemente indirizzato all'edilizia commerciale, residenziale e dei servizi; si modella su qualsiasi progetto sia per nuove costruzioni che per ristrutturazioni. Le varie tipologie di accessori lo rendono compatibile con qualsiasi tipo di struttura: cemento armato, muratura tradizionale, acciaio, legno; la posa in opera, supportata da una nostra assistenza tecnica in fase progettuale, è facile, rapida e non richiede speciali mezzi di cantiere.

Il sistema è particolarmente versatile: prevede l'utilizzo di pannelli **FLAT** (lisci), **BUBBLE** e **RUGBY** (con impronte sferiche o ellittiche su tutta la superficie del lato esterno, ricavate per stampaggio) e dei **nuovi pannelli CAOS**, oltre ad una ricca e flessibile componentistica di elementi speciali, permettendo una vasta scelta di moduli e colori che esaltano l'elevato standard architettonico. **SERBOND®** è costituito da una sottostruttura leggera in acciaio zincato, ancorata alle strutture portanti dell'edificio. I moduli sandwich, monolitici, a planarità stabilizzata, sono provvisti di giunto a taglio termico, con fissaggio a scomparsa e predisposti per l'inserimento di speciali profili in alluminio estruso; il modulo geometrico può avere uno sviluppo sia verticale che orizzontale. Completano il sistema una serie di elementi di finitura a taglio termico quali angoli curvi, angoli retti, spigoli ed ottavi di sfera, soglie, stipiti ed architravi per infissi, oltre a moduli speciali sottomultipli e raccordi realizzati a disegno.

The concept of the SERBOND® cladding has been developed to offer to the designers the possibility to create tailor-made projects, having not to refer to rigid standards or defined geometric rules. This particular facing system is mainly directed towards commercial, residential building and public utilities. It can be used both for new building and for renovations. The versatile system has different types of accessories that work with different types of structure such as concrete, traditional masonry, steel and wood. The installation of the panels, supported by our technical assistance during the planning phase, is easy and doesn't require the use of special site vehicles / equipments.

It's possible to employ FLAT, BUBBLE and RUGBY (with pressed spherical/elliptic imprints on the external surface) and the new CAOS panels and many adaptable elements in a wide range of developments and colours that exalt the original architectural standard. The SERBOND® is made of a light substructure in galvanized steel, anchored to the bearing structure of the building. The monolithic sandwich panels with stabilized flatness, have a joint with thermic cut, a hidden fixing and they are planned to be finished with special profiles in extruded aluminium; the panels can have both a vertical and a horizontal development. The system offers a particularly rich range of components and elements with thermic cut such as: rounded and right corners, edges, thresholds, windowposts, and also connections with special development and tailor-made joints.

DESCRIZIONE CAPITOLATO

La facciata architettonica **SERBOND®** è costituita da una sottostruttura leggera in acciaio zincato, ancorata alle strutture portanti dell'edificio. I moduli sandwich, monolitici, a planarità stabilizzata, sono provvisti di giunto a taglio termico, con fissaggio a scomparsa e predisposti per l'inserimento di speciali profili in alluminio estruso; il modulo geometrico può avere uno sviluppo sia verticale che orizzontale. Completano il sistema una serie di elementi di finitura a taglio termico quali angoli curvi, retti, spigoli ed ottavi di sfera, soglie, stipiti ed architravi per infissi, oltre a moduli speciali sottomultipli e raccordi realizzati a disegno.

Il sistema **SERBOND®** si compone di:

- Sottostruttura
- Pannelli ciechi a taglio termico
- Profilo in alluminio estruso
- Elementi di finitura a taglio termico

SOTTOSTRUTTURA

Profili tubolari in acc. Zinc...x...spess. mm. aventi funzione di sottostruttura, predisposti in senso verticale ed ancorati alla struttura portante mediante idoneo sistema di fissaggio.

PANNELLI A TAGLIO TERMICO CON FISSAGGIO A SCOMPARSA TIPO TERMOARETI® "WP/ST FLAT" o "WPM/C-FN FLAT"

- Supporti esterni in lamiera di acciaio zincato / alluminio / acciaio inossidabile / corten, sagomati a freddo su treni di profilatura a rulli.
- La finitura dei supporti in acciaio zincato e alluminio è costituita da un rivestimento

organico mediante ciclo di preverniciatura a caldo standard in poliesteri secondo norme EN 10169.

- Profilo in PVC, applicato ad incastro sul lato longitudinale femmina dei pannelli tra i due supporti esterni, per dare maggiore stabilità al fissaggio e evitare distacchi delle lamiere dall'isolamento, sia durante la manipolazione che in fase di montaggio.

- Isolamento in poliuretano espanso esente da CFC, ottenuto secondo norma UNI EN 13165.

CARATTERISTICHE DEL PANNELLO

- Spessore del pannello: mm. 40-50-60-80-100

- Spessore supporti esterni: mm. 0,6 lato (E) + 0,5 lato (I)

- Preverniciatura supporti esterni: ns. standard lato (E)

- ES73 Bianco Grigio lato (I)

- Interasse del pannello: mm. 1000

- Densità dell'isolamento: Kg/m³ 40 ca.

- Fissaggio a scomparsa sul giunto femmina

PROFILO IN ALLUMINIO ESTRUSO

Profili speciali in alluminio estruso, saranno utilizzati quali elementi architettonici e di giunzione con gli altri componenti costruttivi.

ELEMENTI DI FINITURA A TAGLIO TERMICO

Elementi speciali a taglio termico aventi funzione di chiusura del pannello e di raccordo con gli altri elementi costruttivi.

SISTEMA DI POSA IN OPERA

Eseguita mediante ancoraggio della sottostruttura in tubolare...x... alla struttura portante dell'edificio e successivo fissaggio meccanico dei pannelli e degli elementi di finitura a taglio termico.

TENDER SPECIFICATIONS

The architectural wall called **SERBOND®** is made of a light substructure in galvanized steel, fixed to the bearing structure of the building. The monolithic sandwich panels with stabilized flatness, have a joint with thermic cut, they have a hidden fixing and are finished with an extruded aluminium profile. The panels can have both a vertical and a horizontal development. The system offers a wide range of finishing elements with thermic cut: rounded and right corners, edges, thresholds, windowposts and also panels with special development and tailor-made joints.

The **SERBOND®** System consists of:

- Substructure
- Blind panels with thermic cut
- Extruded aluminium profile
- Finishing elements with thermic cut

SUBSTRUCTURE

The substructure is made of vertical tubular profiles in galv. steelx... mm thick, anchored to the main structure by means of a suitable fixing system.

PANELS WITH THERMIC CUT WITH HIDDEN FIXING CALLED TERMOARETI® "WP/ST FLAT" or "WPM/C-FN FLAT"

- External supports in cold shaped galvanized steel / aluminium / stainless steel / corten

- The finishing of the galvanized steel supports and of the aluminium supports consists of an organic coat obtained from a

cycle of hot standard polyester prepainting according to EN10169

- PVC profile, located in the longitudinal female joint of the panels between the two external supports to increase the overall fixing stability of the panel and to avoid detachments of the supports from the insulation either during their handling or during the working phase.

- Polyurethane insulation, CFC free, according to UNI EN 13165 Norm.

CHARACTERISTICS OF THE PANEL

Thickness of the panel: mm 40-50-60-80-100

Thickness of external supports : mm 0,6 side (E) + 0,5 side (I)

Prepainting of external supports : our standard side (E) + ES73 White Grey side (I)

Width of the panel : mm 1000

Density of insulation : approx. 40 kg/m³

Fixing : hidden fixing on the female joint

EXTRUDED ALUMINIUM PROFILE

Special profiles in extruded aluminium are used as architectural joint elements to panels or other components.

FINISHING ELEMENTS WITH THERMIC CUT

Special components with thermic cut are used to finish the panels and as connection to other elements

ASSEMBLING SYSTEM

The tubular profilesx... of the substructure are anchored to the bearing structure of the building, then the panels and the special components with thermic cut are being fixed.

Caratteristiche tecnico-prestazionali:

Supporti: ACCIAIO - S 250 GD conforme alla norma UNI EN 10346 aventi caratteristiche meccaniche non inferiori a quelle previste dal D.M. del 14/01/2008 e tolleranze secondo la norma UNI EN 10143

ALLUMINIO - UNI EN 1396, con carico di rottura minimo 150 MPa

RAME - UNI EN 1172

COR-TEN

ACCIAIO INOSSIDABILE - Secondo norma UNI EN 10088-1

Isolante: PUR o PIR Densità ~ 40 Kg/m³. Pannelli in schiuma PIR hanno ottenuto la certificazione di reazione al fuoco Bs2d0.

Spessori: mm. 40 - 50 - 60 - 80 - 100

Modulo base: Larghezza mm 1000

Tolleranze dimensionali: in accordo all'allegato D UNI EN 14509

Il sistema, data la sua caratteristica di adattabilità e flessibilità, prevede la realizzazione di moduli speciali di compensazione.

Technical characteristics and performances:

Supports: STEEL - S 250 GD according UNI EN 10346 norm,

mechanical characteristics as D.M. of 14/01/2008

and tolerances according UNI EN 10143 norm

ALUMINIUM - UNI EN 1396 with 150 MPa minimum yielding limit

COPPER - UNI EN 1172

COR-TEN

STAINLESS STEEL - according UNI EN 10088-1 norm

Insulation: PUR or PIR Density ~ 40 Kg/m³ Panels with PIR foam have obtained Bs2d0 fire reaction certification.

Thickness: mm. 40 - 50 - 60 - 80 - 100

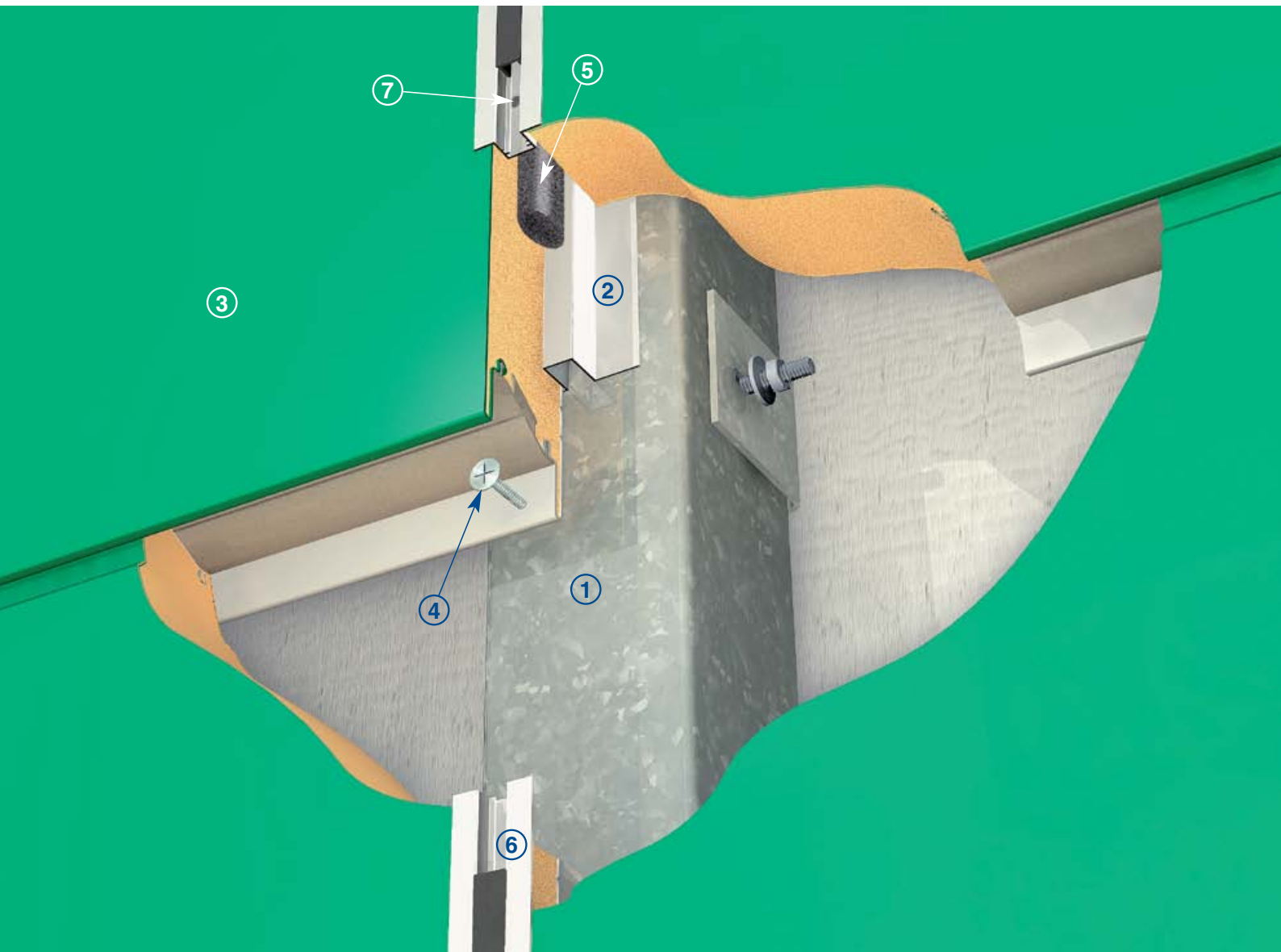
Standard Panel: Width mm. 1000

Dimensional tolerances: according to the Annex D UNI EN 14509

The flexibility of the system gives the possibility to realize also panels with different developments.

SISTEMA PER L'EFFICIENTAMENTO E LA RIQUALIFICAZIONE ENERGETICA ED ARCHITETTONICA

ARCHITECTURAL WALL CLADDINGS FOR NEW BUILDINGS, FOR RENOVATIONS AND ENERGY-UPGRADING



COMPOSIZIONE DEL SISTEMA SERBOND® DETAILS OF THE SERBOND® SYSTEM

① **SOTTOSTRUTTURA IN ACCIAIO ZINCATO**
SUBSTRUCTURE IN GALVANIZED STEEL

⑤ **GUARNIZIONE DI TENUTA "LEM CORD" DIAMETRO 20 mm**
"LEM CORD" GASKET - DIAMETER 20 mm

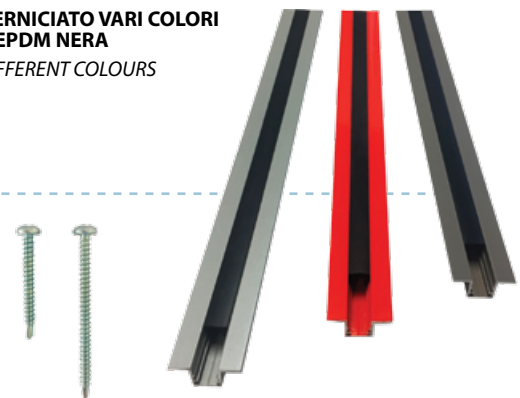
② **PRESSOPIEGATO DI ANCORAGGIO
PER TRAFILATO IN ALLUMINIO**
FLASHING TO FIX ALUMINIUM PROFILE

⑥ **TRAFILATO IN ALLUMINIO PREVERNICIATO VARI COLORI
COMPLETO DI GUARNIZIONE IN EPDM NERA**
ALUMINIUM PROFILE PAINTED IN DIFFERENT COLOURS
WITH BLACK EPDM RUBBER

③ **TERMOPARETI® A FISSAGGIO NASCOSTO**
TERMOPARETI® WITH HIDDEN FIXING

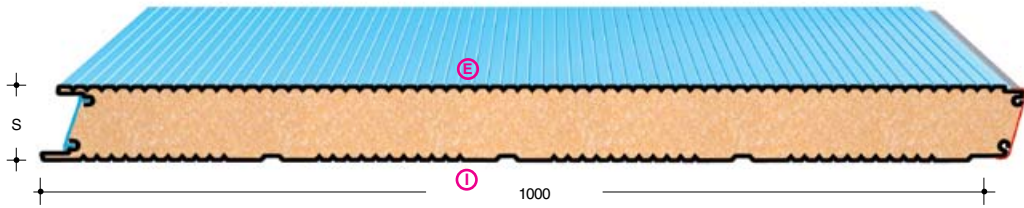
⑦ **VITE "DRILLEX" PER FISSAGGIO
TRAFILATO IN ALLUMINIO**
"DRILLEX" SCREWS TO FIX
ALUMINIUM PROFILE

④ **VITE SVASATA PIANA LARGA
PER FISSAGGIO TERMOPARETI®**
SCREW WITH LARGE FLAT HEAD
TO FIX TERMOPARETI®



TIPO - TYPE
WPM/C-FN

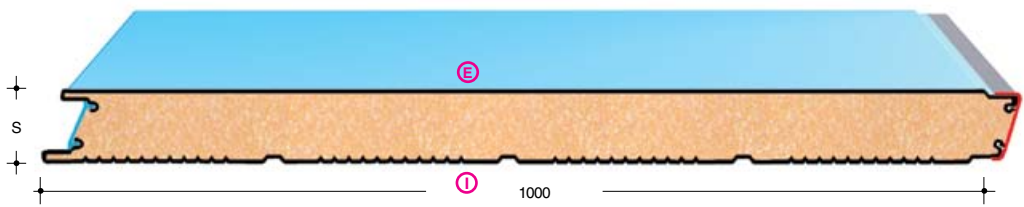
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WP/ST
FLAT**

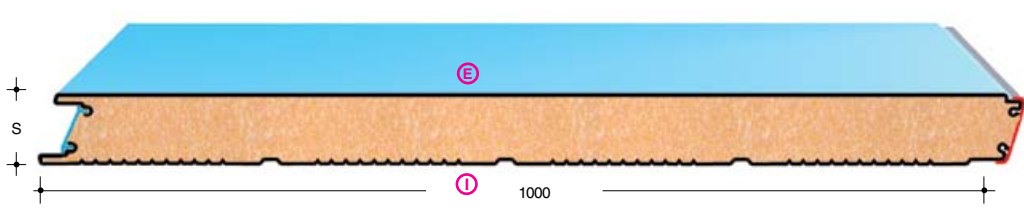
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WPM/C-FN
FLAT**

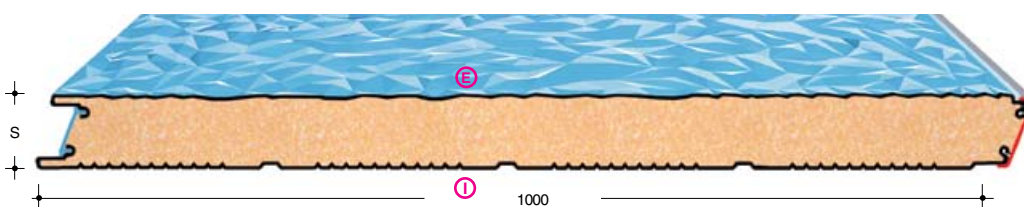
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WPM/C-FN
CAOS**

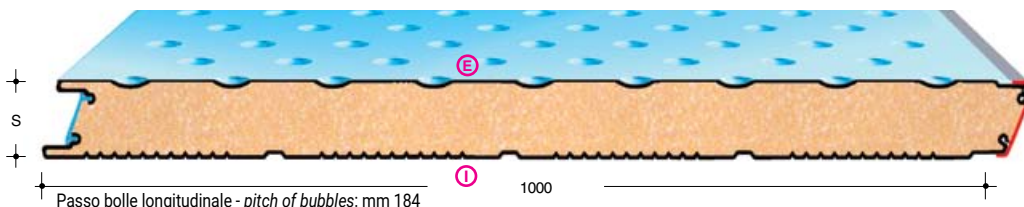
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WP/ST
BUBBLE**

S
Spessore - Thickness
mm. 40-50
60-80-100

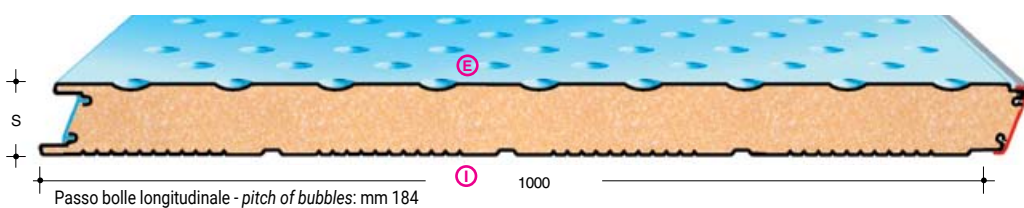


Passo bolle longitudinale - pitch of bubbles: mm 184

OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WPM/C-FN
BUBBLE**

S
Spessore - Thickness
mm. 40-50
60-80-100

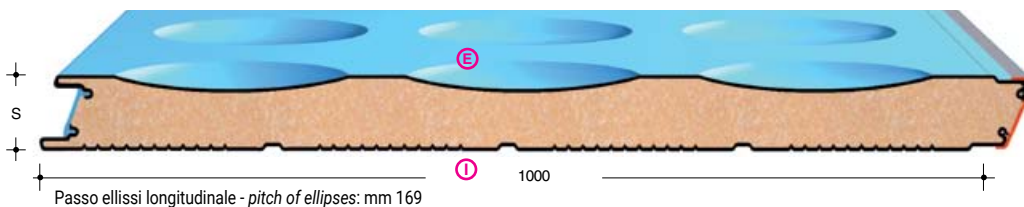


Passo bolle longitudinale - pitch of bubbles: mm 184

OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WP/ST
RUGBY**

S
Spessore - Thickness
mm. 40-50
60-80-100

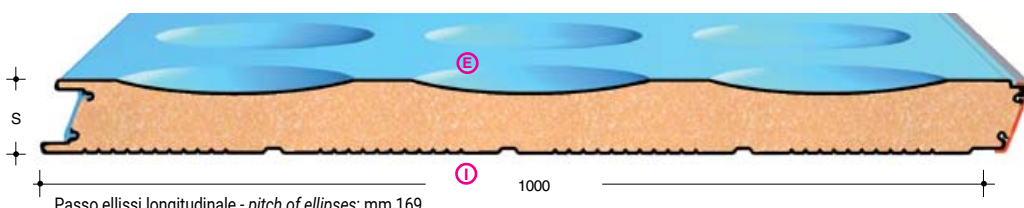


Passo ellissi longitudinale - pitch of ellipses: mm 169

OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WPM/C-FN
RUGBY**

S
Spessore - Thickness
mm. 40-50
60-80-100

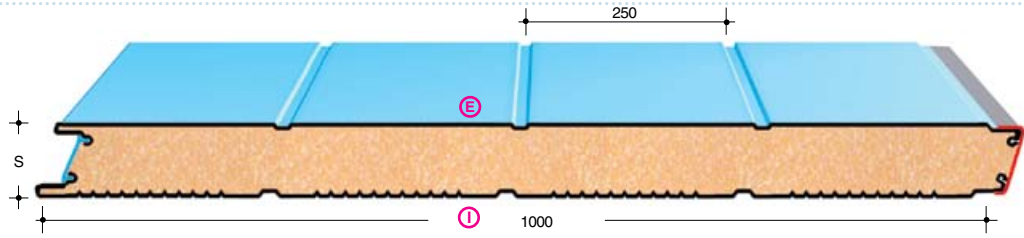


Passo ellissi longitudinale - pitch of ellipses: mm 169

OPZIONE
OPTION
PIR B-s2,d0

TIPO - TYPE
**WP/ST
ALT 1**

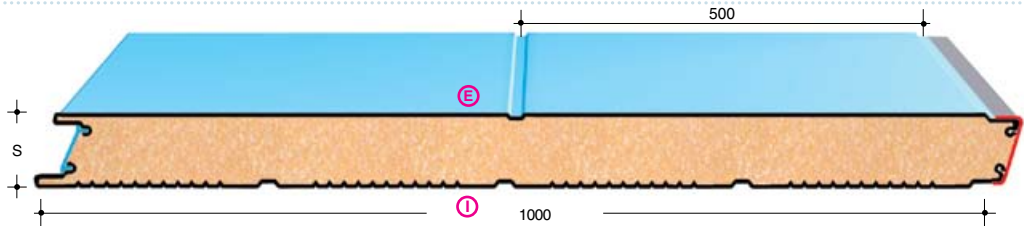
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s,2,d0

TIPO - TYPE
**WP/ST
ALT 2**

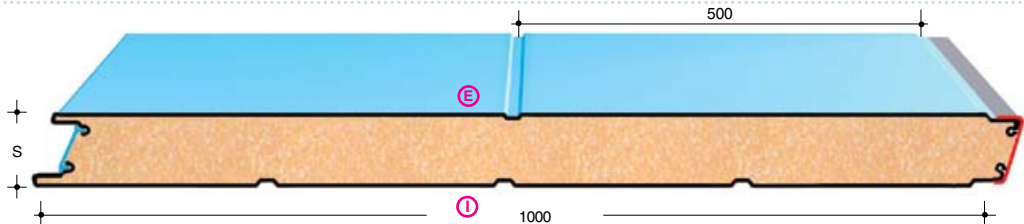
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s,2,d0

TIPO - TYPE
**WP/ST
ALT 3**

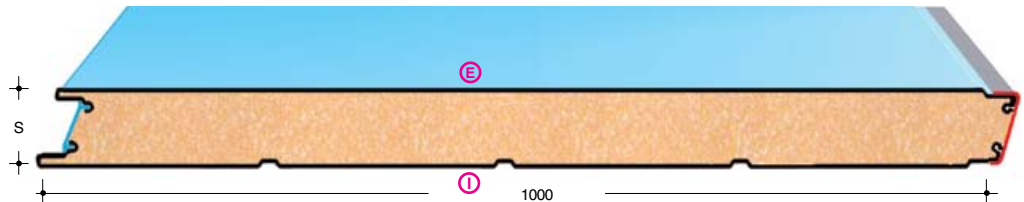
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s,2,d0

TIPO - TYPE
**WP/ST
ALT 4**

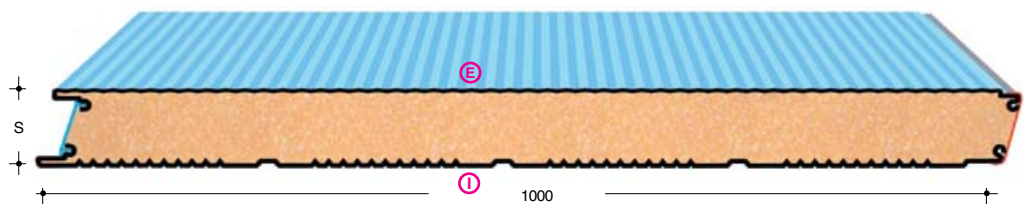
S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s,2,d0

TIPO - TYPE
**WPM/C-FN
MICRO**

S
Spessore - Thickness
mm. 40-50
60-80-100



OPZIONE
OPTION
PIR B-s,2,d0

CONDIZIONI DI CARICO - SUPPORT CONDITIONS

S spessore mm thickness mm	R m ² K W	U W m ² K	peso weight Kg/m ²	U.M.
40	1,866	0,536	10,15	Kg/m ² KN/m ²
50	2,309	0,433	10,53	Kg/m ² KN/m ²
60	2,747	0,364	10,91	Kg/m ² KN/m ²
80	3,623	0,276	11,67	Kg/m ² KN/m ²
100	4,504	0,222	12,63	Kg/m ² KN/m ²

Carichi utili di esercizio uniformemente distribuiti in KG/m² - KN/m² / Useful loads uniformly distributed in KG/m² - KN/m²

		Distanza tra gli appoggi in m ℓ - SPAN IN ℓ m									
		2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	Kg/m ²	166	125	90	70	55	178	140	108	85	70
	KN/m ²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	Kg/m ²	225	160	120	90	70	245	182	140	115	90
	KN/m ²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	Kg/m ²	289	216	142	115	85	321	237	181	141	115
	KN/m ²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	Kg/m ²	455	316	227	160	120	500	365	280	215	145
	KN/m ²	4,46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	Kg/m ²	470	345	260	200	160	510	390	285	225	180
	KN/m ²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76

CONDIZIONI DI CARICO CON SUPPORTI IN ACCIAIO

I valori dei carichi riportati nelle tabelle sono indicativi; si riferiscono ad una freccia f ≤ 1/200 della luce ℓ (m) per pannelli con spessore dei supporti in ACCIAIO 0,5+0,5 mm. Per il dimensionamento e la verifica riferirsi all'allegato E della norma UNI EN 14509 e ai valori dichiarati nella certificazione CE. La lettera (I) (E) indica il lato eventualmente preverniciato.

LOAD CONDITIONS WITH STEEL SUPPORTS

The values shown in the tables are indicative and referred to a deflection f ≤ 1/200 of the span ℓ (m) for panels with thickness of STEEL supports 0,5+0,5 mm. For sizing and checking refer to the enclosed "E" of the UNI EN 14509 Norm and to the values shown in the CE certification. The letter (I) (E) shows the required painted side.

CONDIZIONI DI CARICO - SUPPORT CONDITIONS

S spessore mm thickness mm	R m ² K W	U W m ² K	peso weight Kg/m ²	U.M.
40	1,866	0,536	5,16	Kg/m ² KN/m ²
50	2,309	0,433	5,56	Kg/m ² KN/m ²
60	2,747	0,364	5,96	Kg/m ² KN/m ²
80	3,623	0,276	6,76	Kg/m ² KN/m ²
100	4,504	0,222	7,56	Kg/m ² KN/m ²

Carichi utili di esercizio uniformemente distribuiti in KG/m² - KN/m² / Useful loads uniformly distributed in KG/m² - KN/m²

		Distanza tra gli appoggi in m ℓ - SPAN IN ℓ m									
		2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	Kg/m ²	108	64	41	27	19	149	95	64	44	32
	KN/m ²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	Kg/m ²	150	92	60	41	29	194	129	89	63	46
	KN/m ²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	Kg/m ²	191	121	81	56	40	237	162	114	83	62
	KN/m ²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	Kg/m ²	272	180	125	89	65	317	225	165	124	95
	KN/m ²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	Kg/m ²	290	235	180	110	90	310	255	190	135	100
	KN/m ²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98

CONDIZIONI DI CARICO CON SUPPORTI IN ALLUMINIO

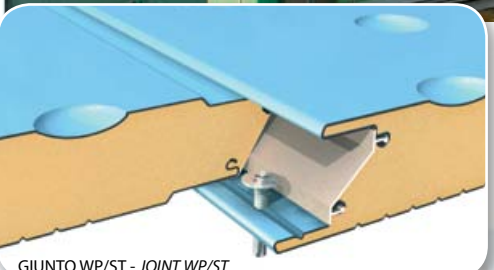
I valori dei carichi riportati nelle tabelle sono indicativi; si riferiscono ad una freccia f ≤ 1/200 della luce ℓ (m) per pannelli con spessore dei supporti in ALLUMINIO 0,6+0,6 mm. Per il dimensionamento e la verifica riferirsi all'allegato E della norma UNI EN 14509 e ai valori dichiarati nella certificazione CE. La lettera (I) (E) indica il lato eventualmente preverniciato.

LOAD CONDITIONS WITH ALUMINIUM SUPPORTS

The values shown in the tables are indicative and referred to a deflection f ≤ 1/200 of the span ℓ (m) for panels with thickness of ALUMINIUM supports 0,6+0,6 mm. For sizing and checking refer to the enclosed "E" of the UNI EN 14509 Norm and to the values shown in the CE certification. The letter (I) (E) shows the required painted side.



RACCORDI SPECIALI PER INFISSI
SPECIAL CONNECTIONS FOR WINDOWS



GIUNTO WP/ST - JOINT WP/ST



GIUNTO WPM/C-FN - JOINT WPM/C-FN

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LE GEOMETRIE

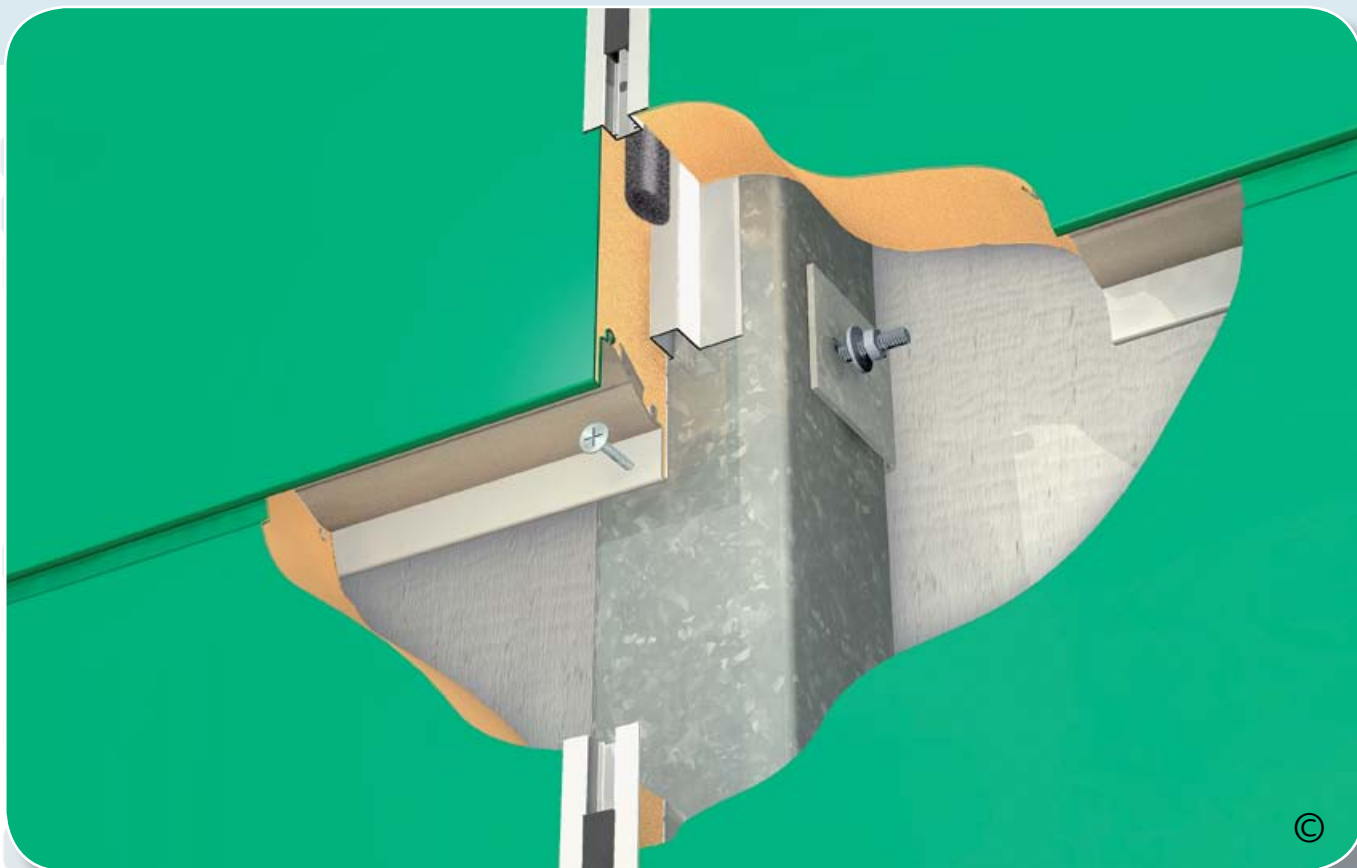


BREVETTATI
elcom system

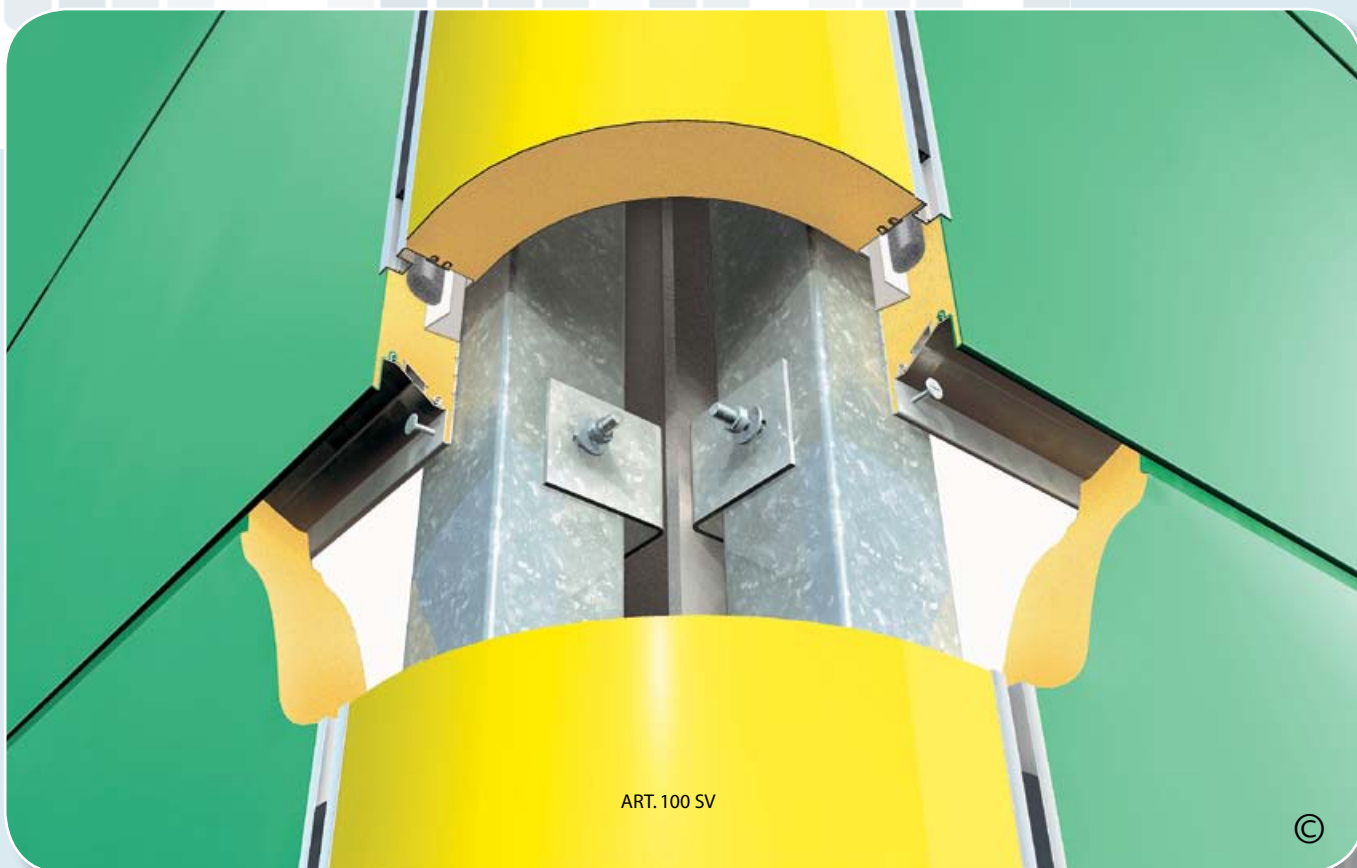


DETTAGLI COSTRUTTIVI

BUILDING DETAILS

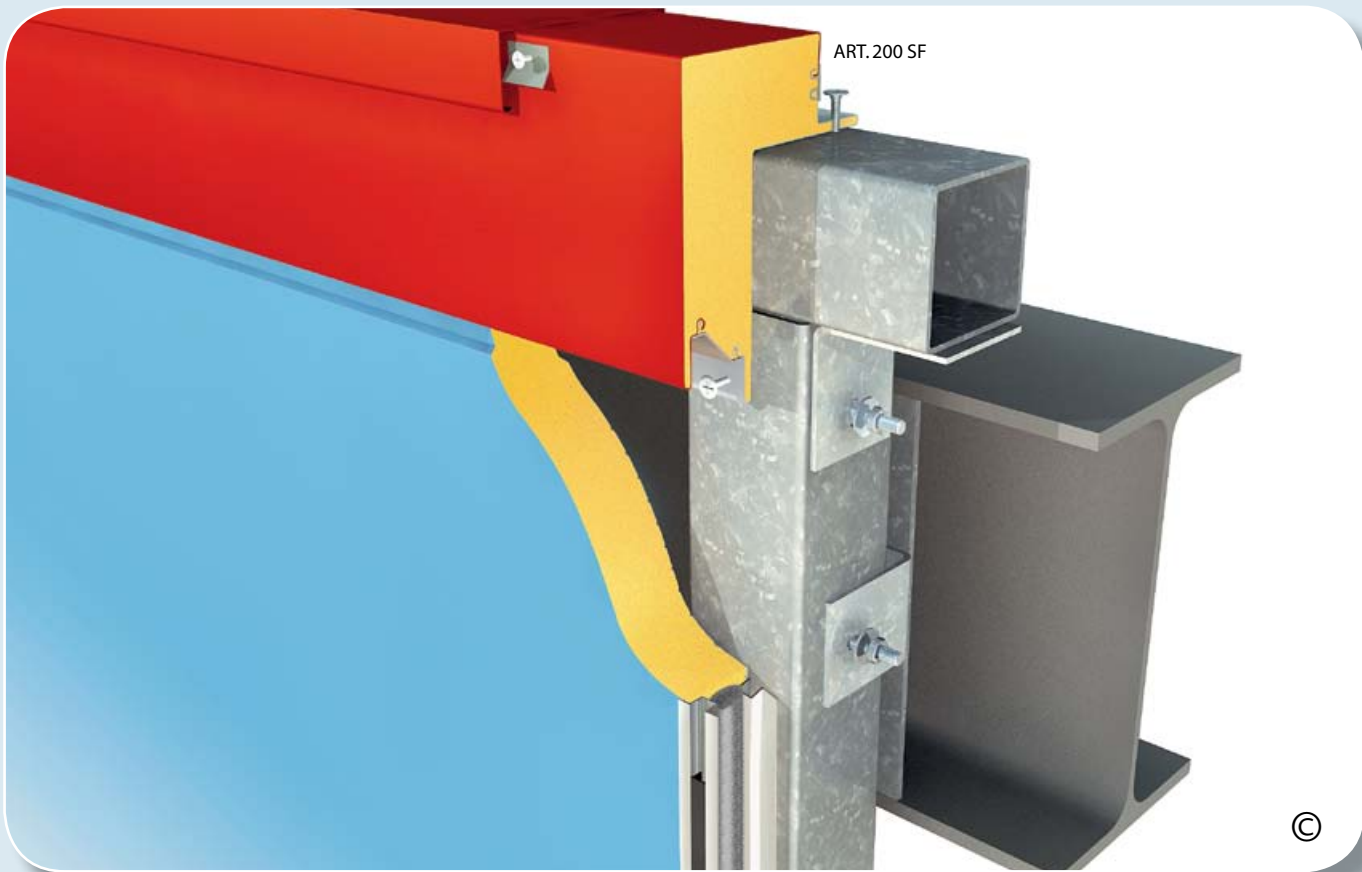


PARTICOLARE GIUNTO TERMOPARETI®
DETAIL WALL (TERMOPARETI®) JOINT



ART. 100 SV

ANGOLO CURVO VERTICALE
ROUNDED VERTICAL CONNECTIONS



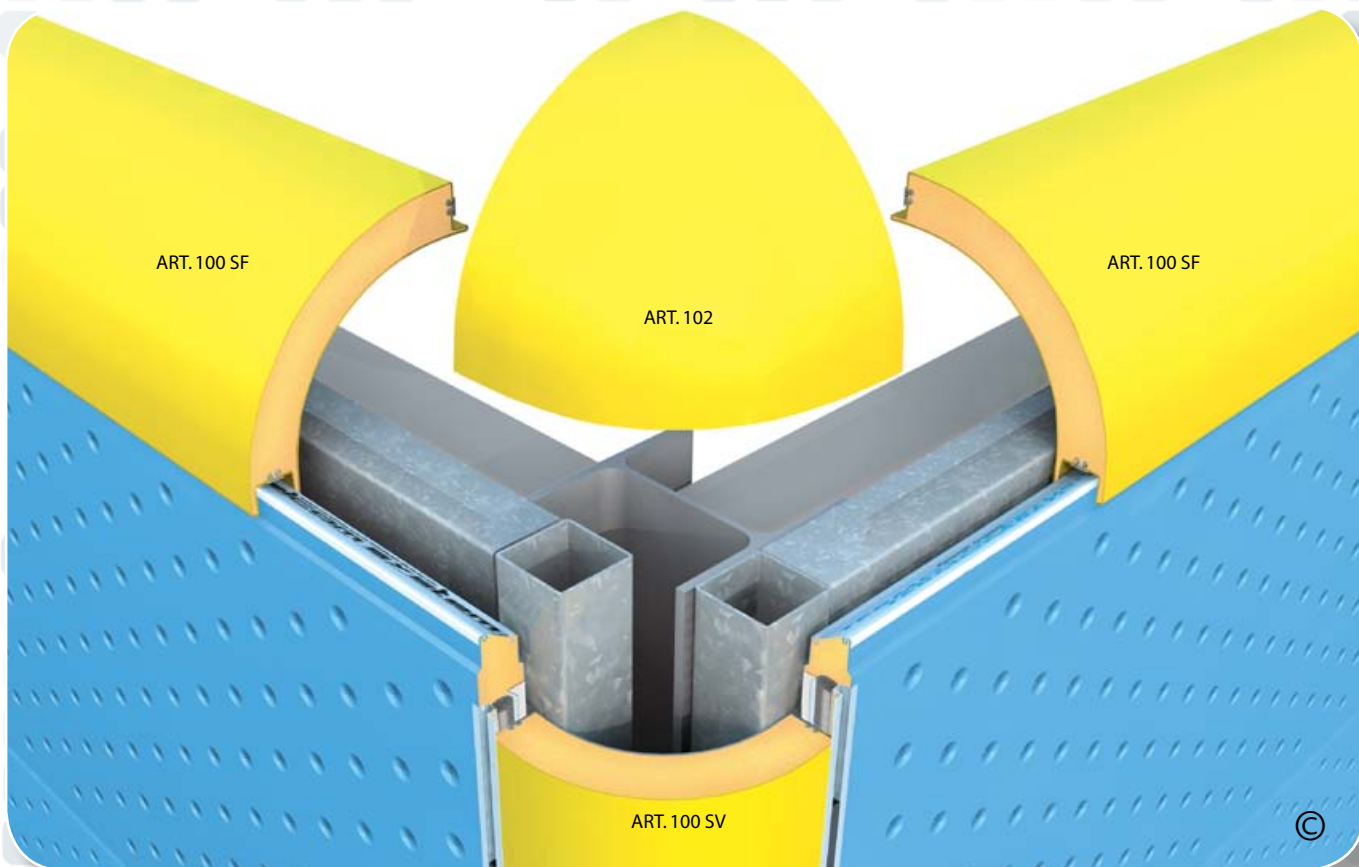
©

CORONAMENTO SUPERIORE ANGOLO 90°
FOAMED 90° UPPER CONNECTION

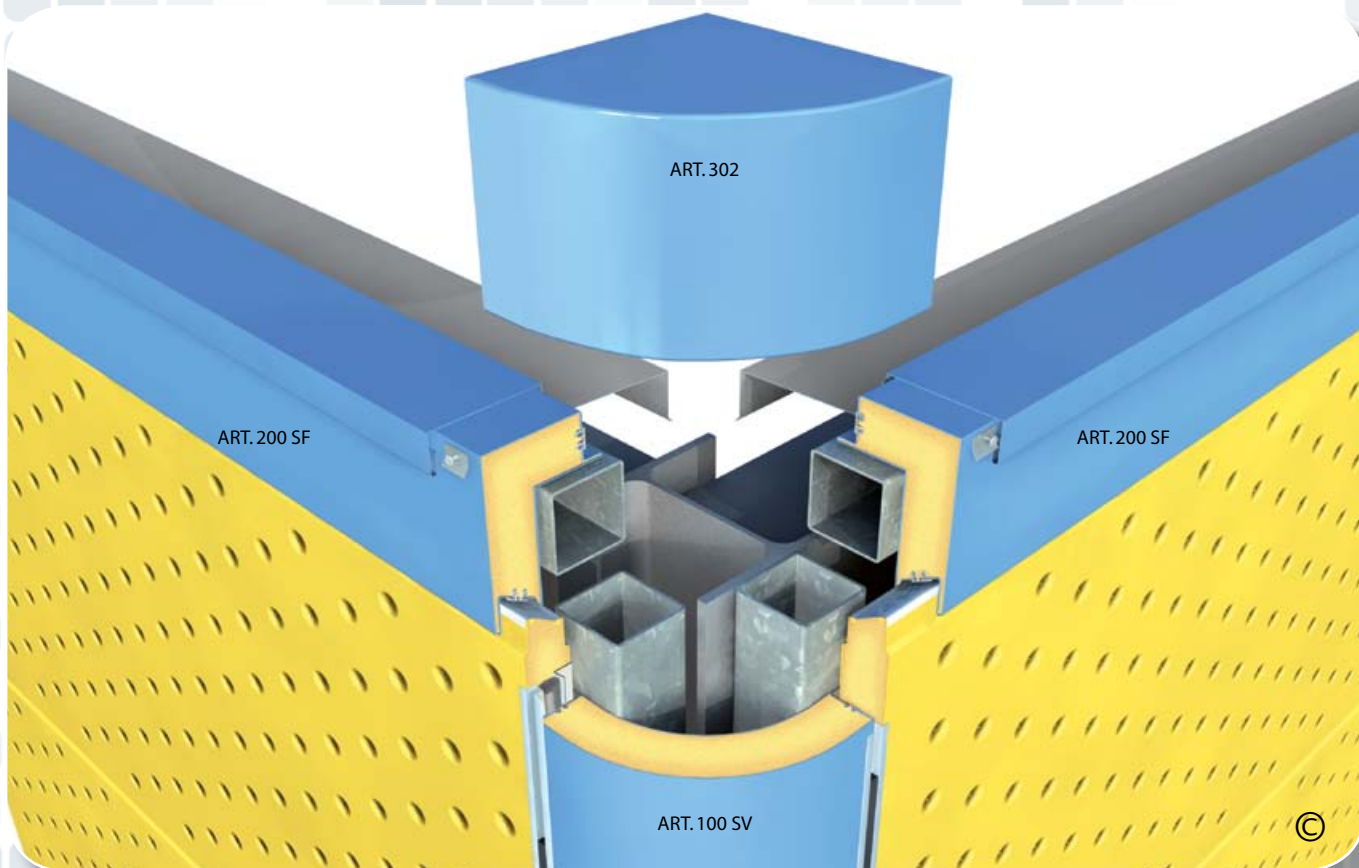


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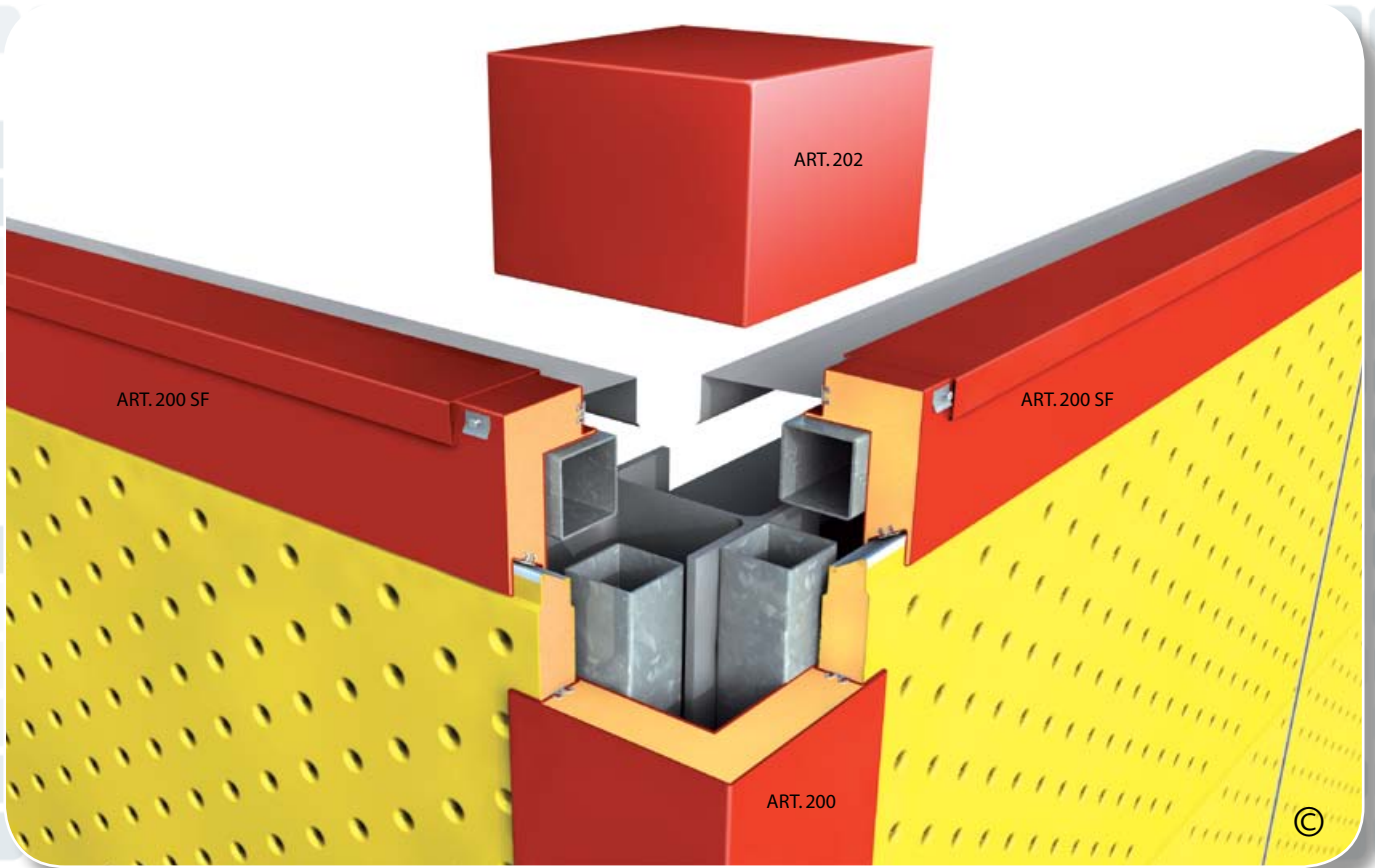
CORONAMENTO INFERIORE ANGOLO 90°
FOAMED 90° BOTTOM CONNECTION



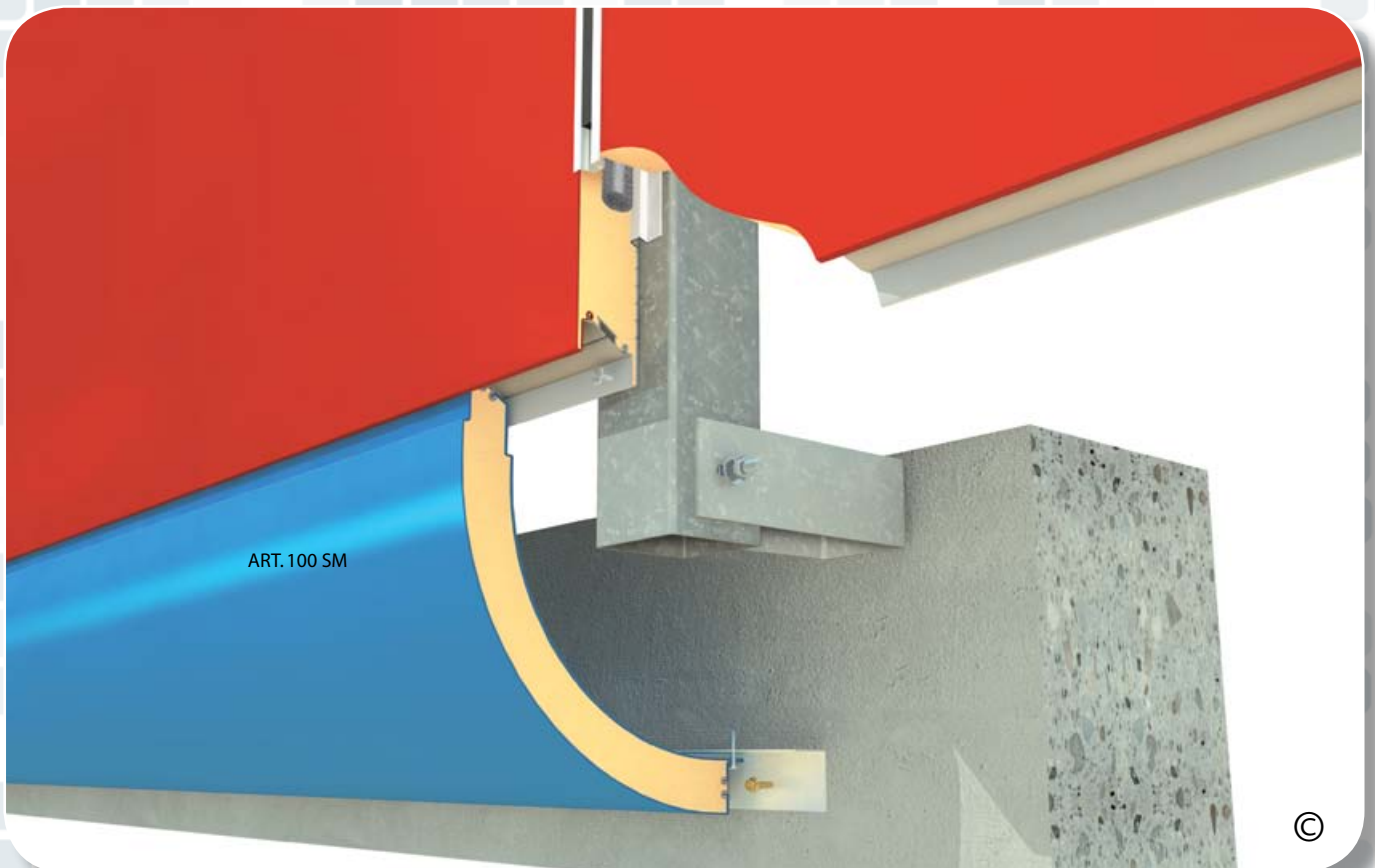
CORONAMENTO SUPERIORE ANGOLI CURVI
 ROUNDED UPPER CONNECTION



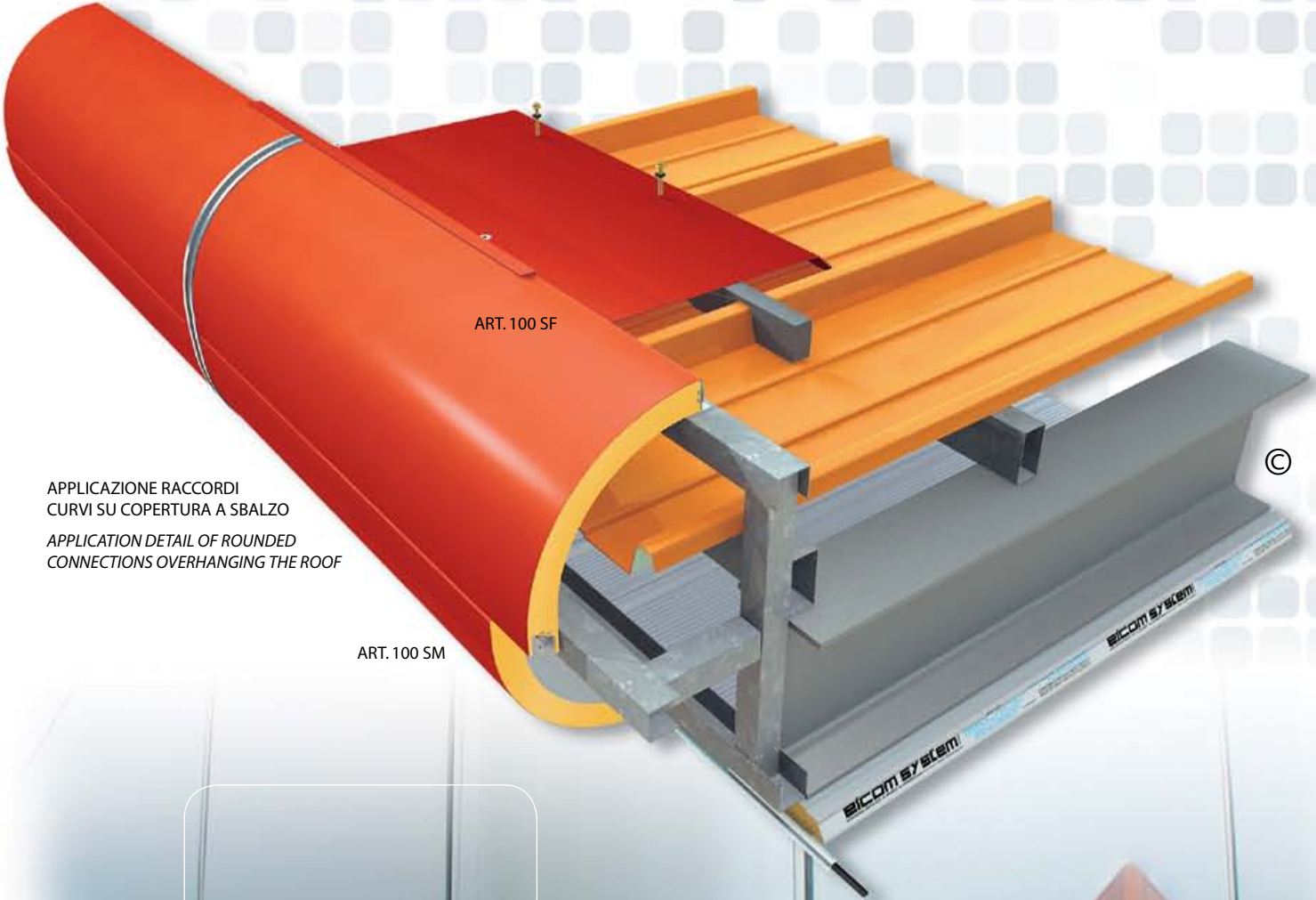
ANGOLI CURVI VERTICALI / ANGOLI RETTI ORIZZONTALI CORONAMENTO SUPERIORE
 ROUNDED VERTICALS CORNERS / HORIZONTAL 90° CORNERS, UPPER CONNECTIONS



CORONAMENTO SUPERIORE ANGOLI RETTI
FOAMED 90° UPPER CONNECTION



CORONAMENTO INFERIORE ANGOLO CURVO
ROUNDED BOTTOM CONNECTION

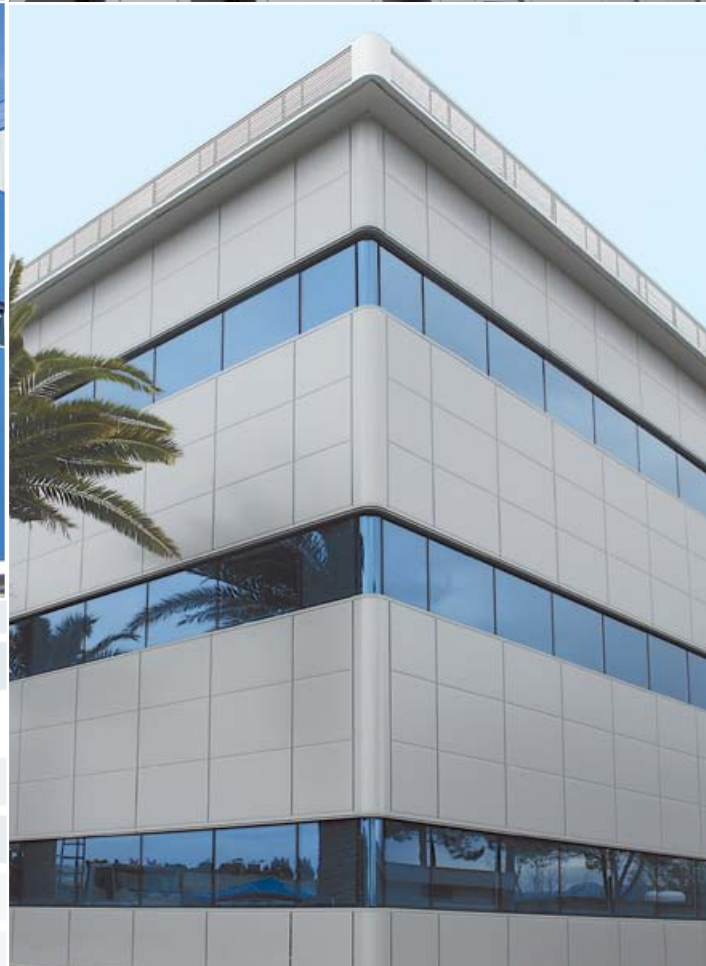


ART. 100 SF

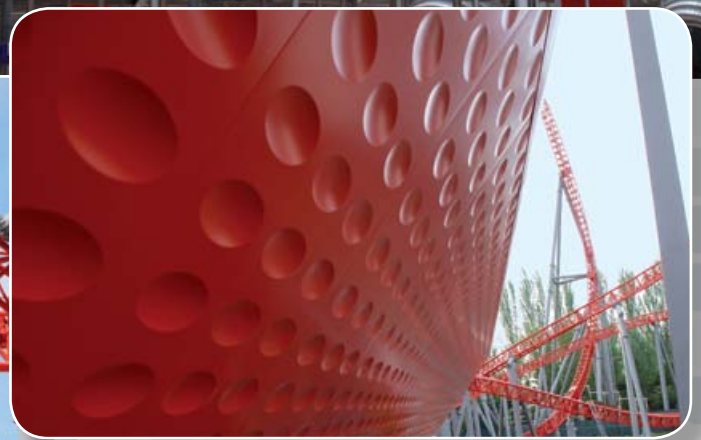
APPLICAZIONE RACCORDI
CURVI SU COPERTURA A SBALZO
APPLICATION DETAIL OF ROUNDED
CONNECTIONS OVERHANGING THE ROOF

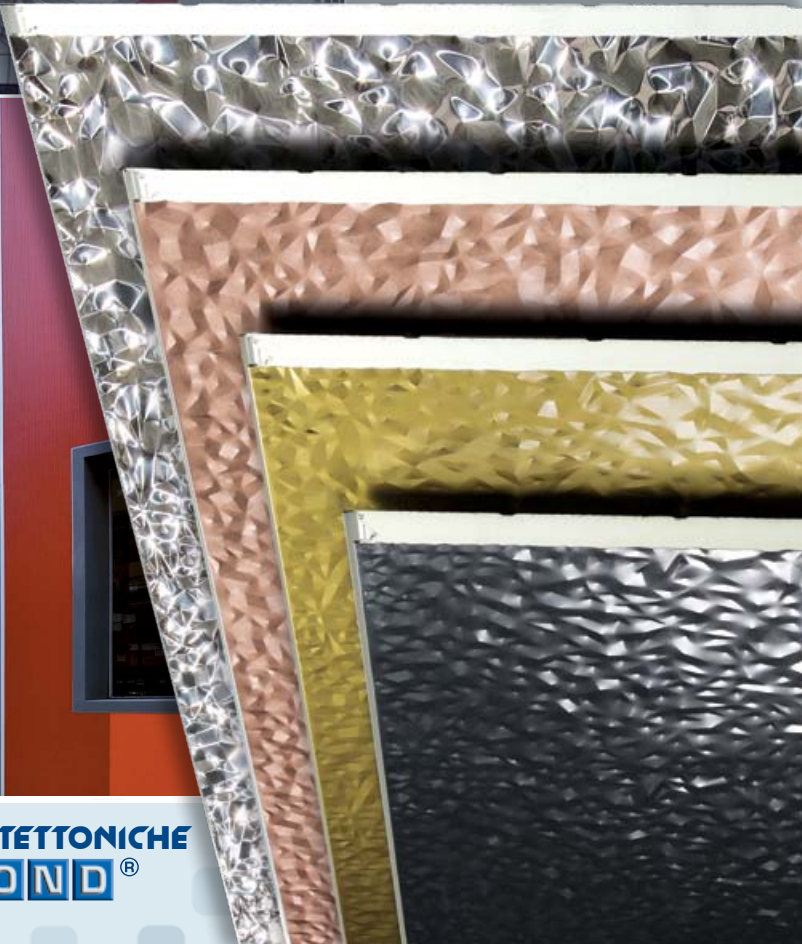
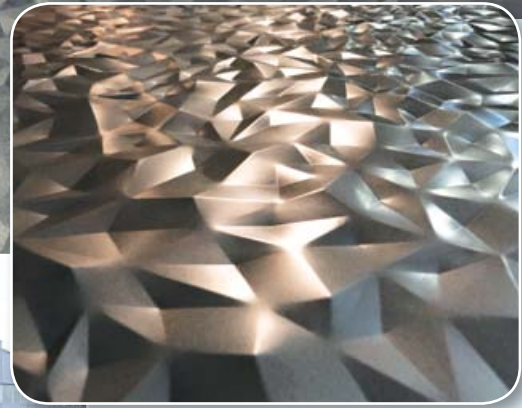
ART. 100 SM





LE GEOMETRIE





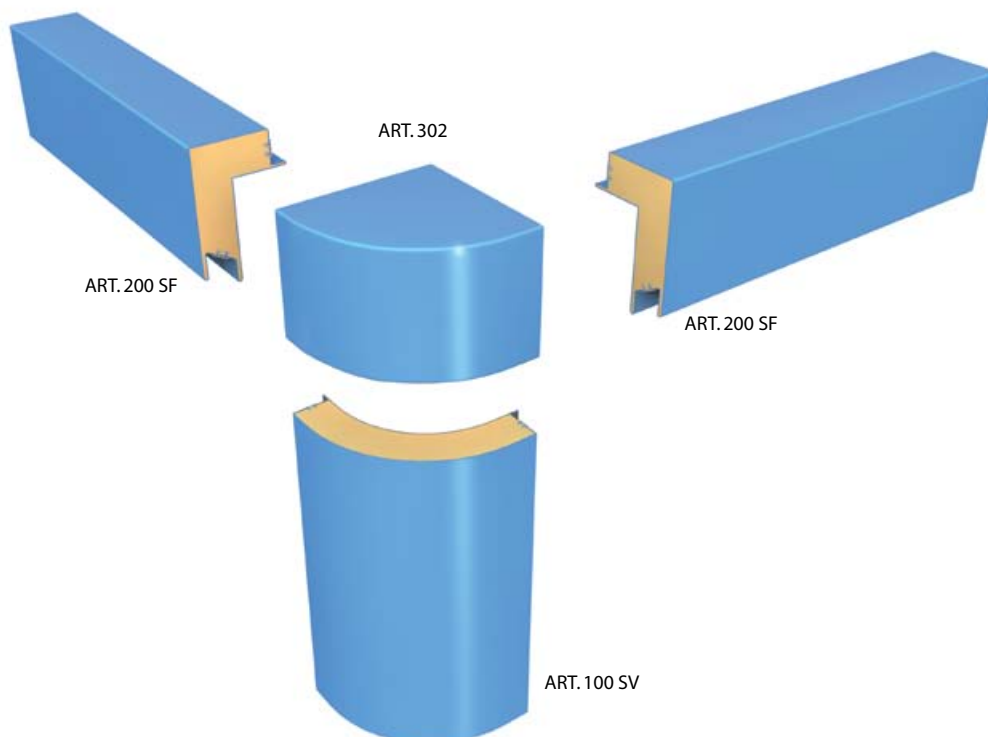
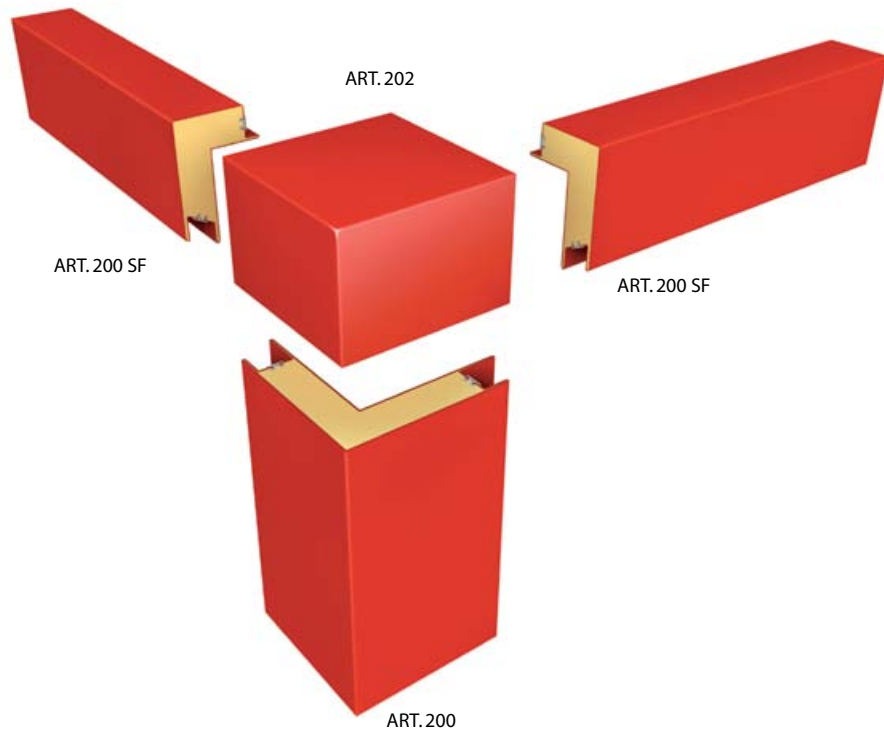


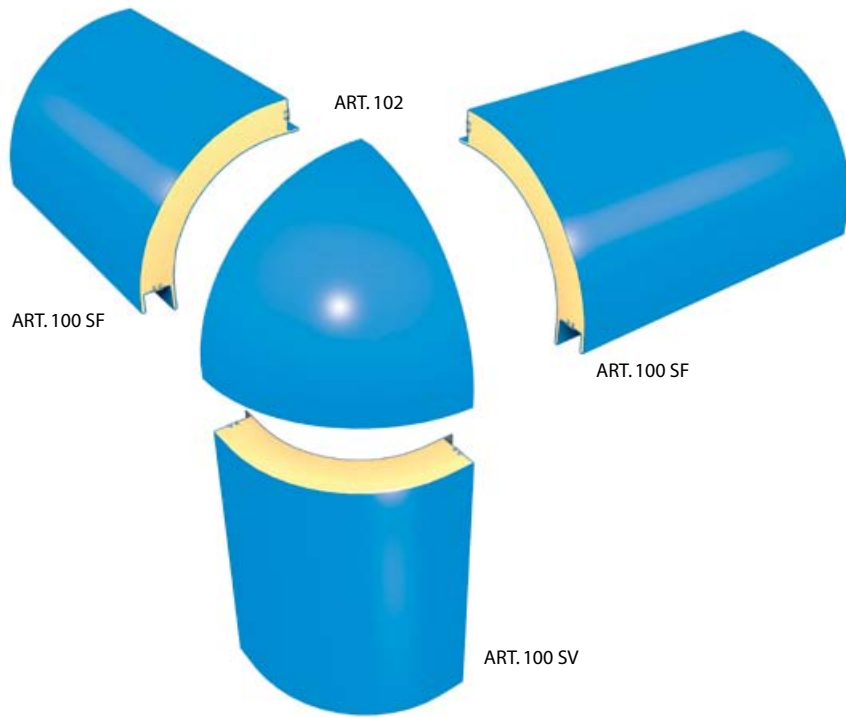
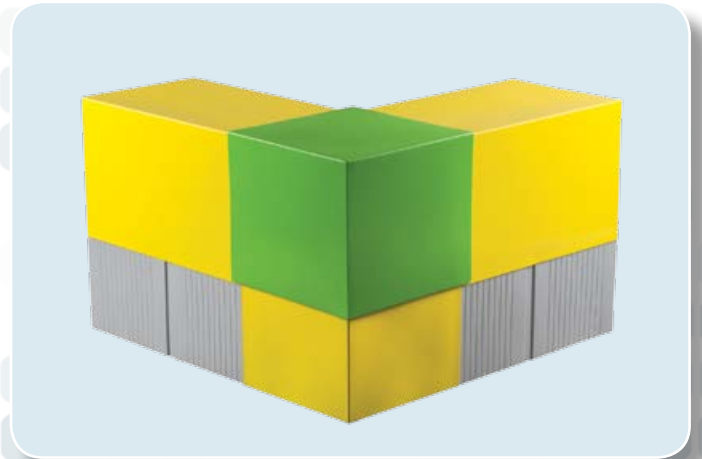
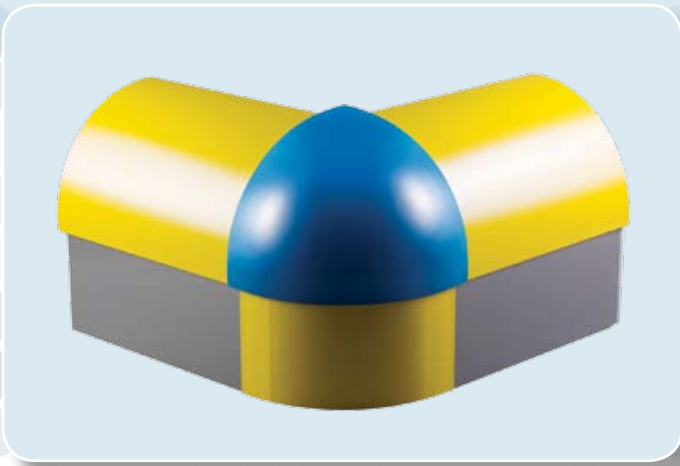


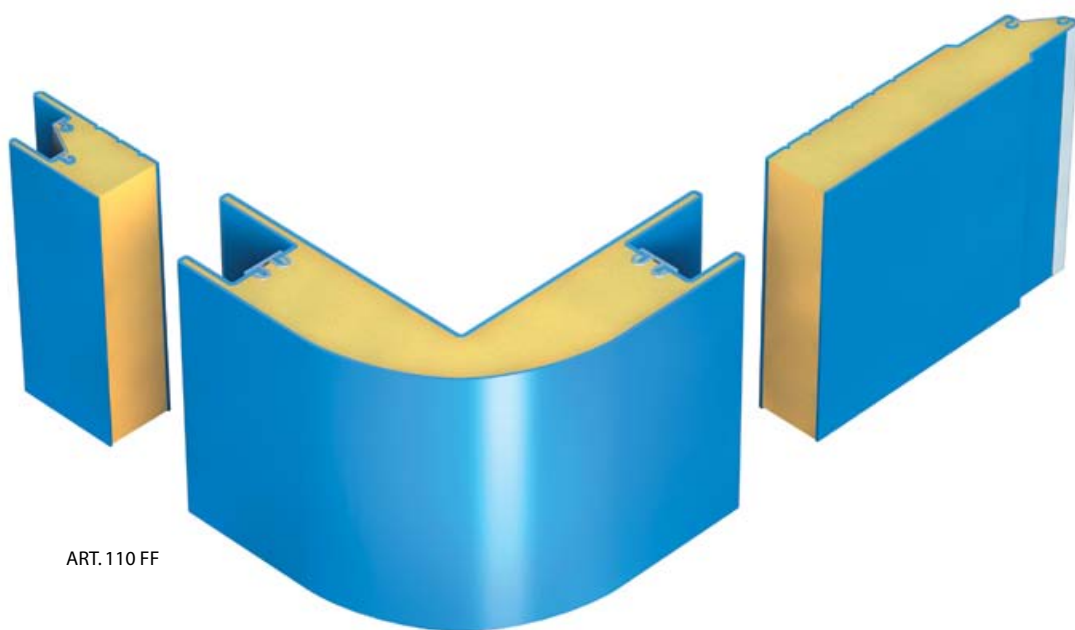
LE GEOMETRIE

SISTEMI per FACCIATE ARCHITETTONICHE COMPONENTI SPECIALI a TAGLIO TERMICO

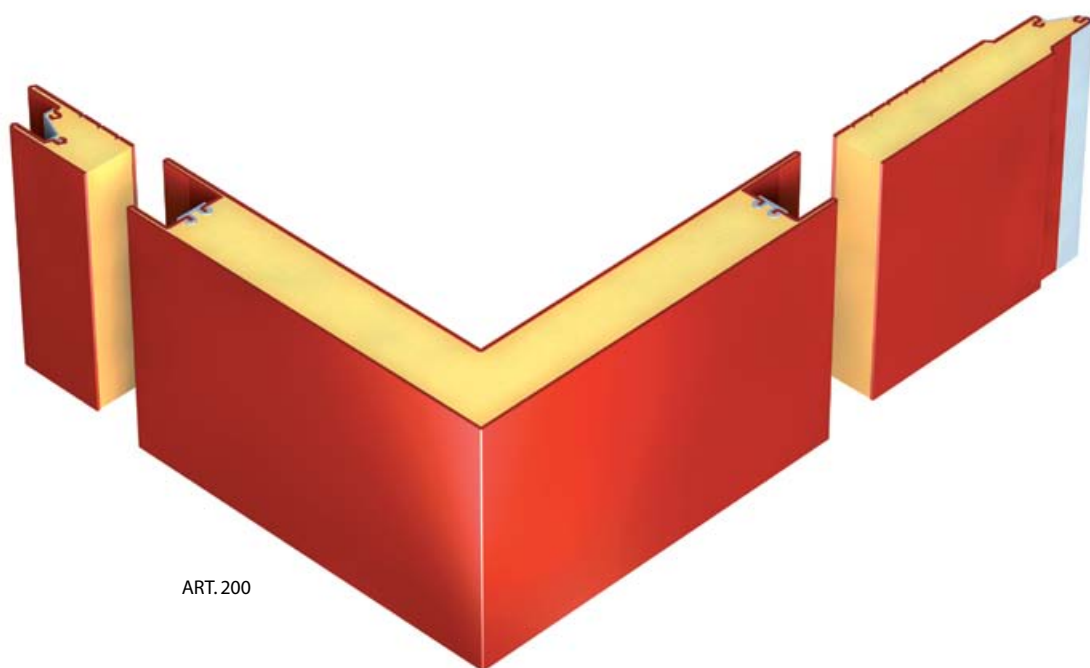
SYSTEM for ARCHITECTURAL WALL CLADDINGS
SPECIAL COMPONENTS WITH THERMIC CUT







ART. 110 FF



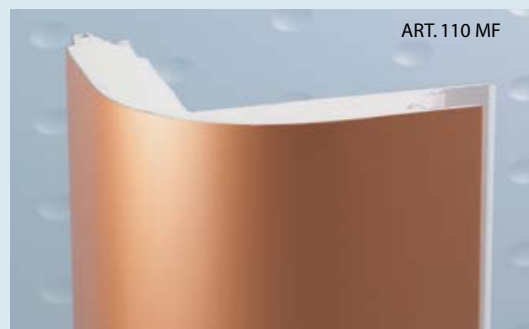
ART. 200

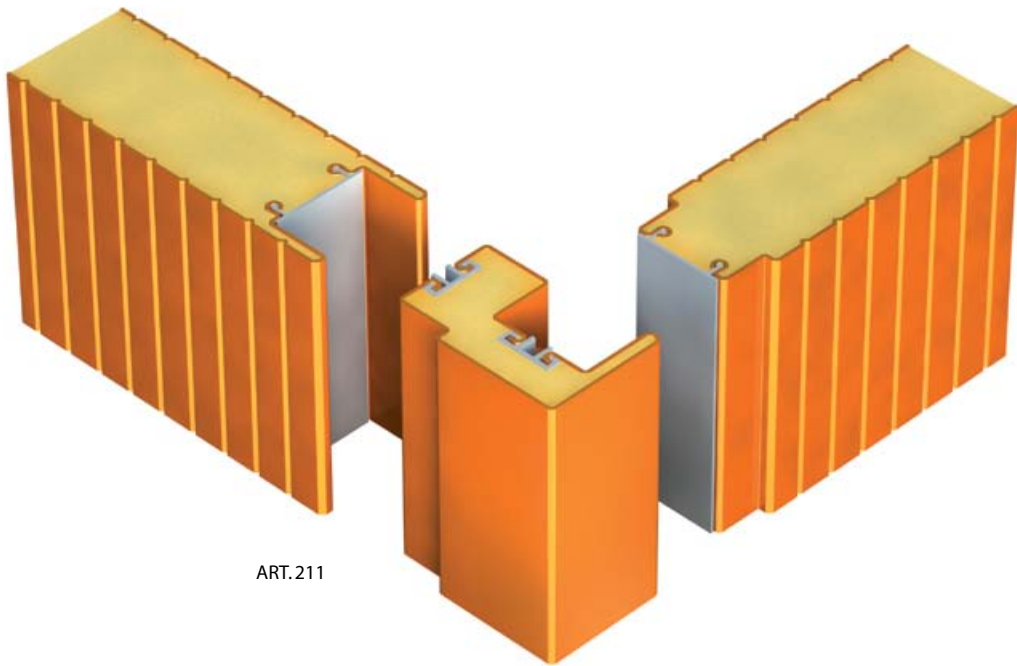


ART. 102 Special

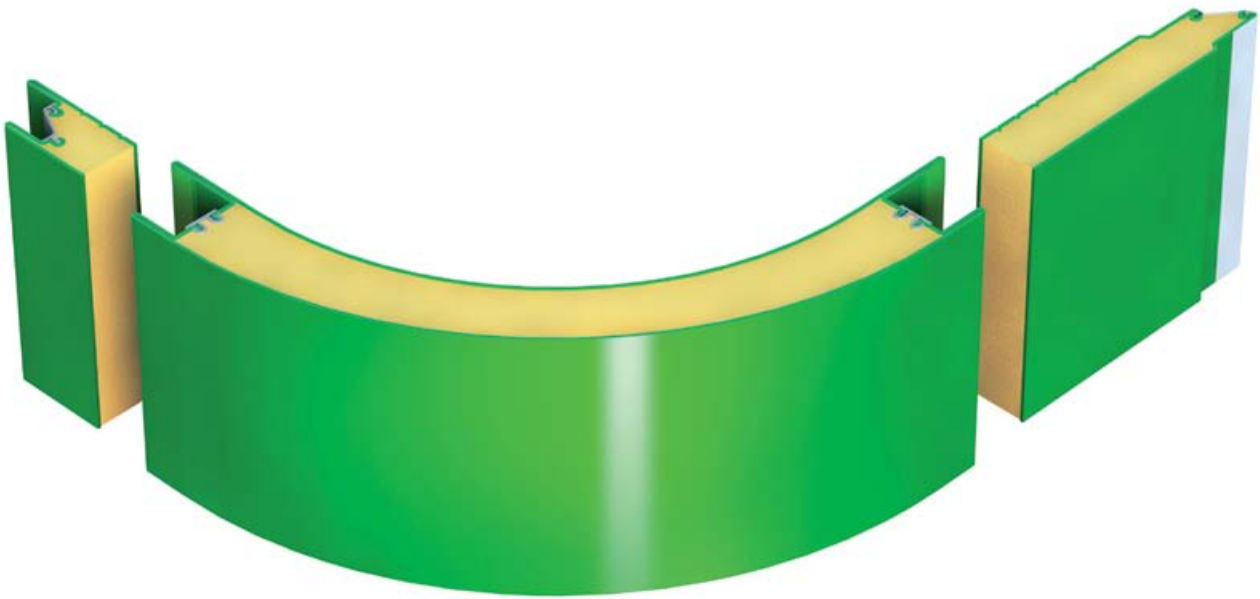


ART. 110 MF





ART. 211



ART. 100

ART. 200



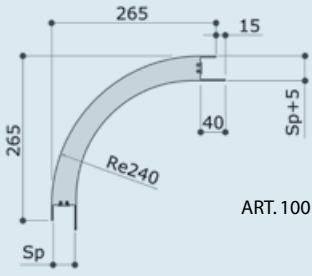
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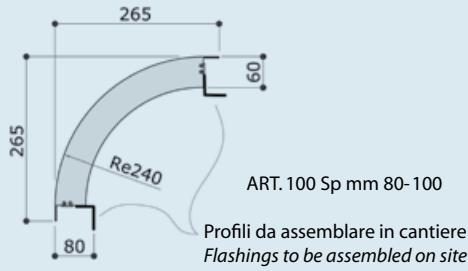
ART. 100



SEZIONE PRODOTTO *PRODUCT SECTION*

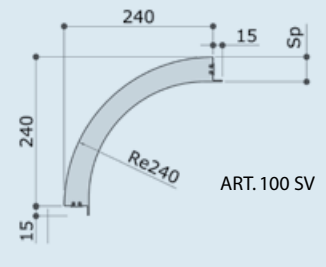


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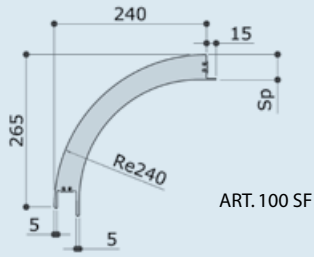


ART. 100 Sp mm 80-100

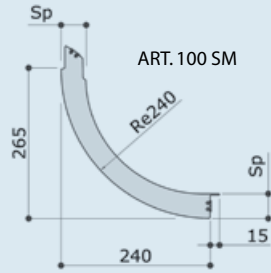
Profili da assemblare in cantiere
Flashings to be assembled on site



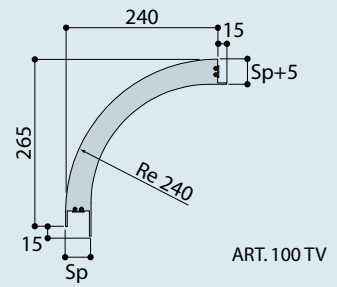
ART. 100 SV



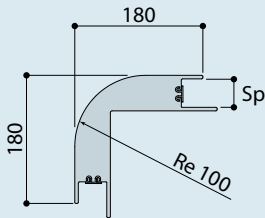
ART. 100 SF



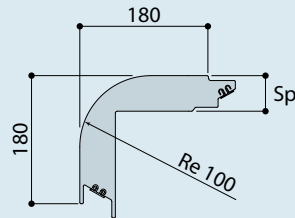
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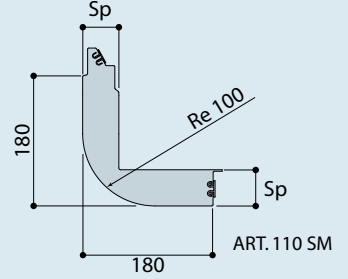
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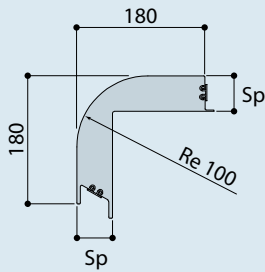
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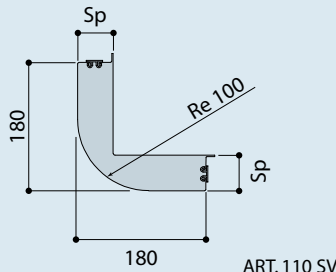
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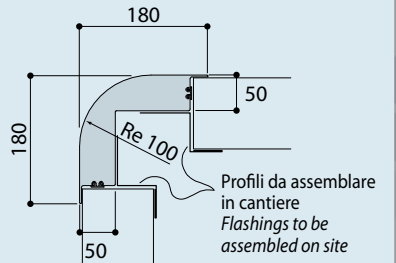
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ART. 110 SF



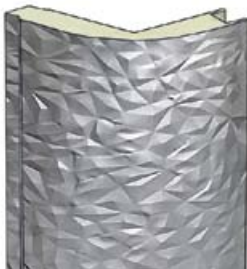
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ART. 110 Sp mm 50-60-80-100

Profili da assemblare in cantiere
Flashings to be assembled on site

ART. 110 MF CAOS

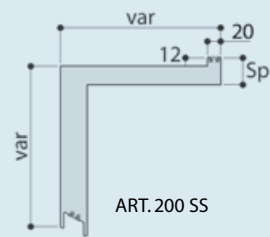
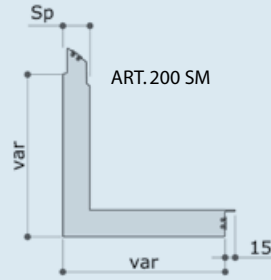
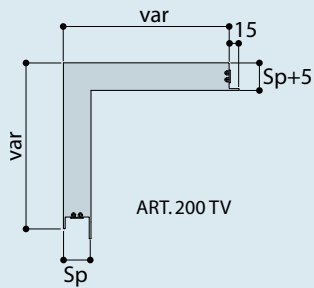
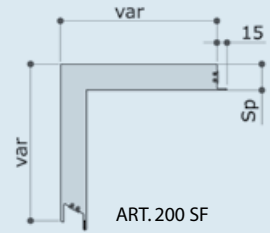
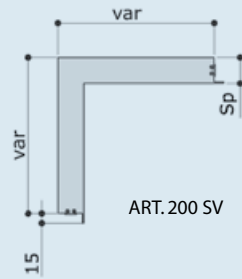
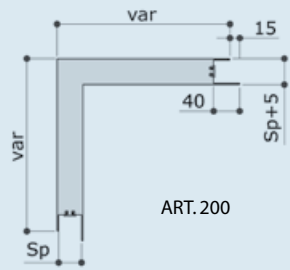


ART. 110 FF CAOS



ART. 200 SS CAOS





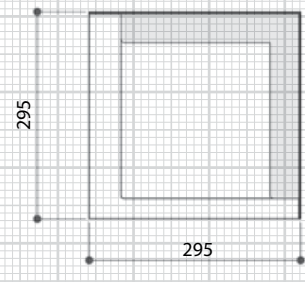
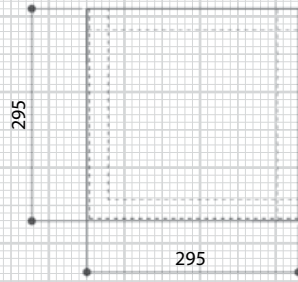
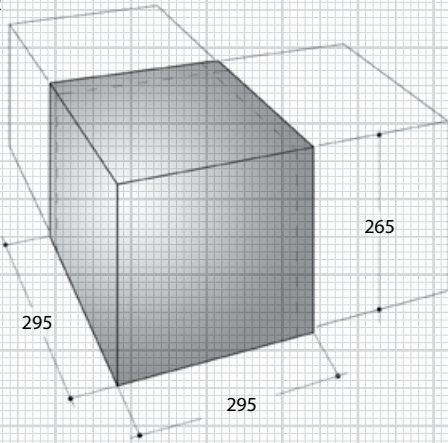
LE GEOMETRIE



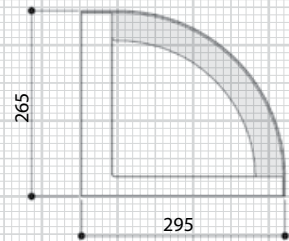
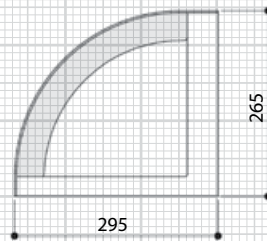
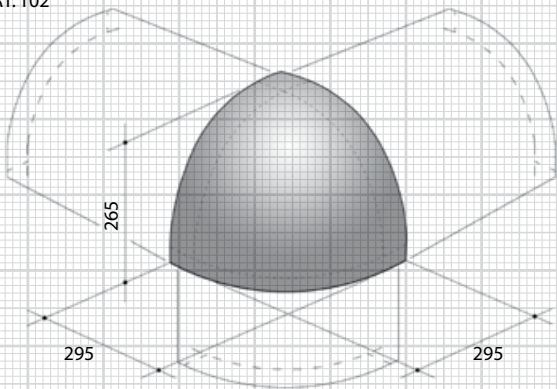
BREVETTATI
elcom system



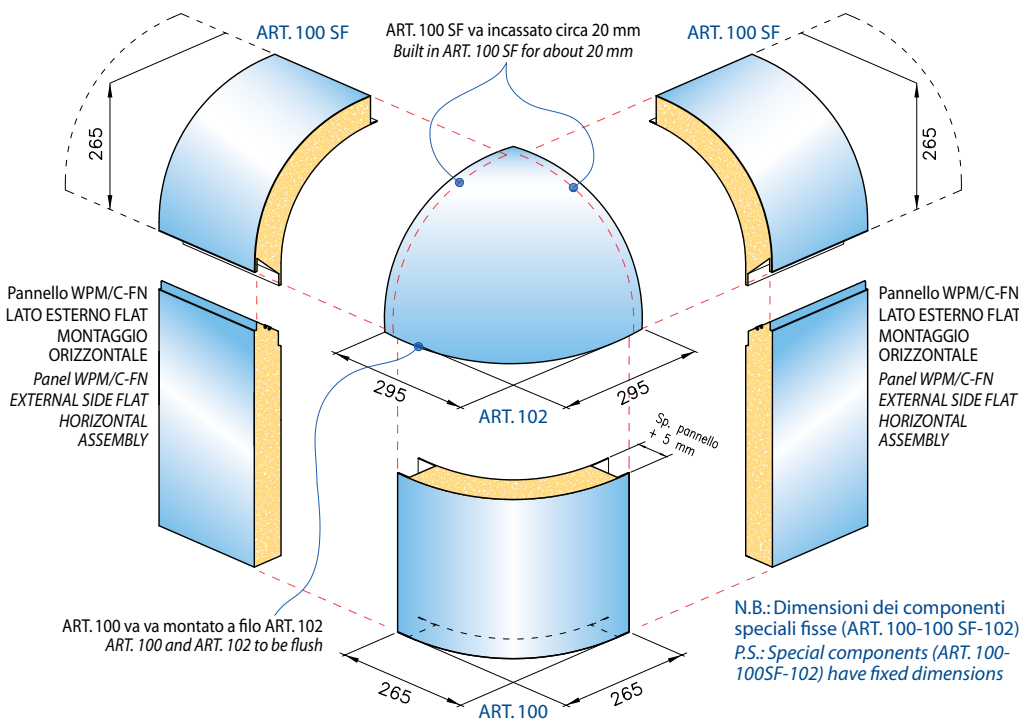
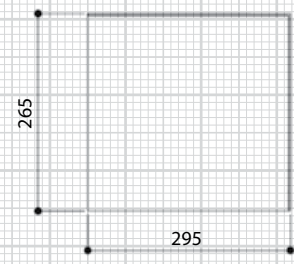
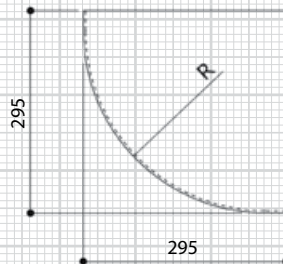
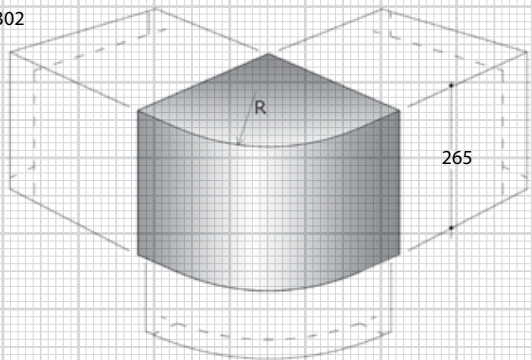
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ART.102

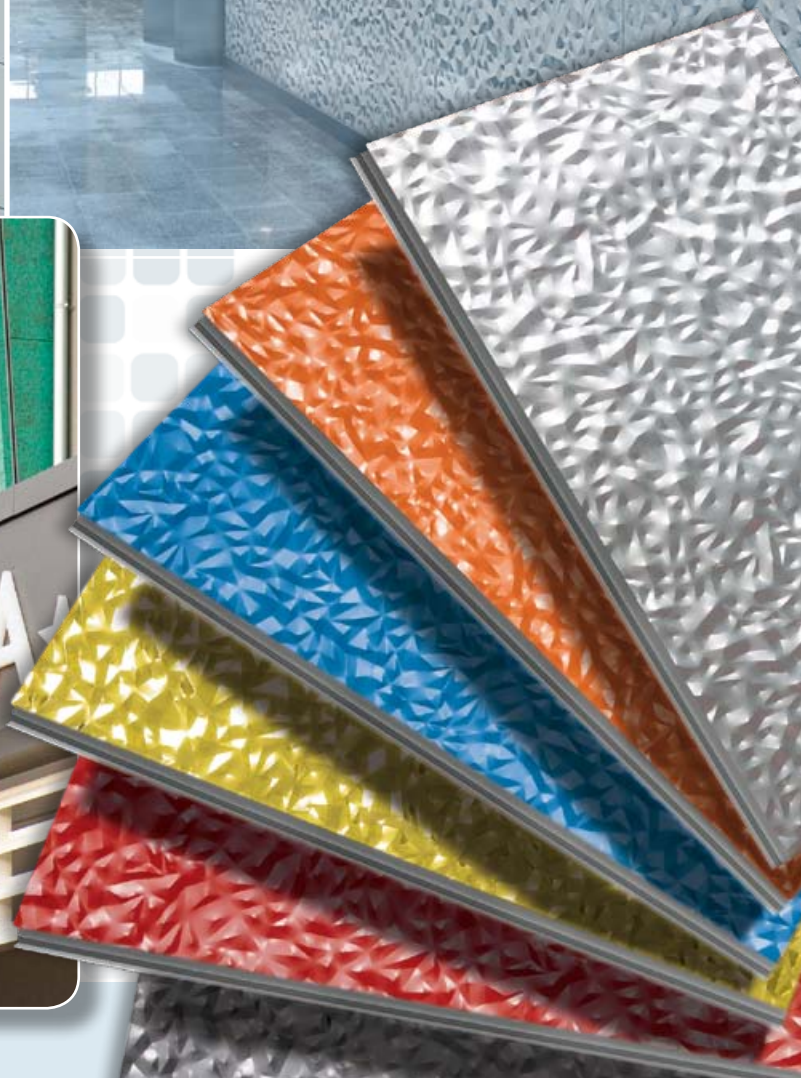


ART.302





CAOS TERMOPARETI®
Una nuova frontiera della materia







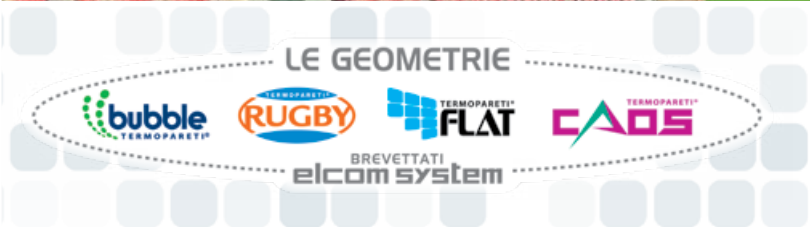




LE GEOMETRIE









**PRIMA... DURANTE... e DOPO
EVOLUZIONE dal vecchio al NUOVO**

*BEFORE... DURING... and AFTER
EVOLUTION from the old building to the NEW ONE*

PRIMA / BEFORE



DURANTE / DURING



DOPO / AFTER





PRIMA / BEFORE

DURANTE / DURING



DOPO / AFTER





PRIMA / BEFORE



DURANTE / DURING



DOPO / AFTER



PRIMA / BEFORE



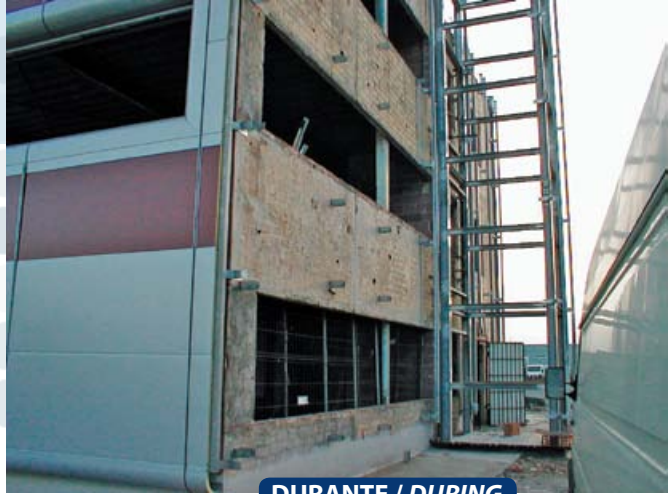
DURANTE / DURING



DOPO / AFTER



PRIMA / BEFORE



DURANTE / DURING



DOPO / AFTER



PRIMA / BEFORE



DURANTE / DURING



DOPO / AFTER





PRIMA / BEFORE



DURANTE / DURING



DOPO / AFTER





PRIMA / BEFORE

DURANTE / DURING



DOPO / AFTER



EFFICIENTAMENTO ENERGETICO E ARCHITETTONICO

ARCHITECTURAL WALL CLADDINGS FOR NEW BUILDINGS, FOR RENOVATIONS AND ENERGY-UPGRADING.

PRIMA / BEFORE



DURANTE / DURING



DOPO / AFTER





PRIMA / BEFORE

DURANTE / DURING



DOPO / AFTER



PRIMA / BEFORE



DURANTE / DURING



DOPO / AFTER









LE GEOMETRIE



BREVETTATI
elcom system



RAPPORTI DI CLASSIFICAZIONE CLASSIFICATION REPORTS

Certificato N. IT7092345
 Il presente è valido per lo spazio di

ELCOM SYSTEM S.p.A.
 Strada Oreste da Tommaso 2, Via 210 - 00039 Portofino di Tuoli (PI) - Italia

è stato verificato ed è risultato conforme ai requisiti di

ISO 9001 / UNI EN ISO 9001:2015

Spazio della certificazione

Progettazione e produzione di pannelli metallici isolanti per pareti e copertura invernali, Termopannelli E e Termocapperture A, Lamiere graticole, serrande graticole per atri, portinatelli, accessori e componenti speciali. Settore Edil. VE, NE

Questo certificato è valido dal 16/10/2022 fino al 16/10/2025. La validità è subordinata all'effettuazione dell'attività di monitoraggio continuo. Riuscita di sorveglianza entro il 17/07/2023. Non è certificato dal 12/07/2023. Data scadenza attività di sorveglianza: 27/07/2023.

Adesione del Pannello Certificato

SGS ACCREDITED

SGS ITALIA S.p.A.
 Via Calanca 21 - 20122 Milano, Italia
 Tel. +39 02 12411 - Fax +39 02 12411 999
 Pagina 1 di 1

AFITI LICOP Informe de Clasificación de Clasification Report No 2897735-5

4.- CLASIFICACIÓN Y CAMPO DE APLICACIÓN
 CLASSIFICATION AND FIELD OF APPLICATION

4.1.- NORMA DE CLASIFICACIÓN - CLASSIFICATION STANDARD
 La clasificación de la reacción al fuego en los materiales de acuerdo con lo establecido en la norma UNE-EN 13502-5:2001-A1:2012
 Reaction to fire classification according to UNE-EN 13502-5:2001-A1:2012 standard

4.2.- CLASIFICACIÓN - CLASSIFICATION
 La gama de productos de panel sándwich con alma de PIR (ver Tabla I) presenta la siguiente clasificación
 Product family of metallic sandwich panel with PIR core (see table I) matches the following classification

Clasificación de la Reacción al Fuego - Reaction to fire classification		
Comportamiento al Fuego Fire behaviour	Producción de humo Smoke production	Gotas inflamables Flaming droplets
B	s 2	d 0

B - s2 , d0

4.3.- CAMPO DE APLICACIÓN - FIELD OF APPLICATION
 Según lo establecido en el informe técnico EXAP nº 2897735, la gama de productos (ver Tabla I), tiene el siguiente campo de aplicación.
 According to Technical Report EXAP nº 2897735, the product family (see Table I), has the following field of application.
 La clasificación obtenida sigue siendo válida para los siguientes materiales según las características de la muestra, sin que la realización de estas modificaciones suponga la aparición de nuevos riesgos.
 Classification obtained is valid for the following sample characteristics values, without further testing needed

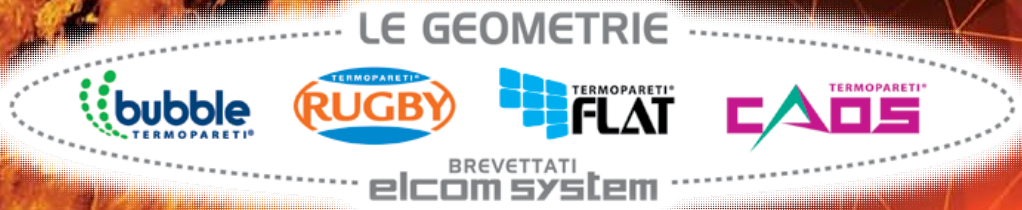
El presente Informe de Clasificación es válido únicamente para el producto en el que se ha realizado la clasificación. No es válido para otros productos.
 This report is valid only for the product for which the classification was obtained and is not valid for other products.

Página 1 de 6
 Page 1 of 6

I dati di calcolo, i valori tabellari, le distinte dei materiali, gli elaborati grafici, come ogni altro documento fornito da ELCOM SYSTEM S.p.A., dovranno essere considerati come semplici elementi di orientamento e non comportano alcuna responsabilità da parte della Venditrice, rimanendo, per definizione e normativa, la progettazione, la direzione dei lavori e il collaudo di esclusiva pertinenza, responsabilità e cura dell'Acquirente. La ELCOM SYSTEM S.p.A. si riserva il diritto di apportare alla propria produzione le modifiche o i miglioramenti tecnici ritenuti necessari.

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Ardite Realizzazioni che fanno Architettura

Surprising Solutions creating Architecture



SATA



06059 Pantalla di Todi (PERUGIA) Italy - Tel. +39.075.8855
Ufficio Italia: commit@elcomsystem.it - Export Dept: info@elcomsystem.it

