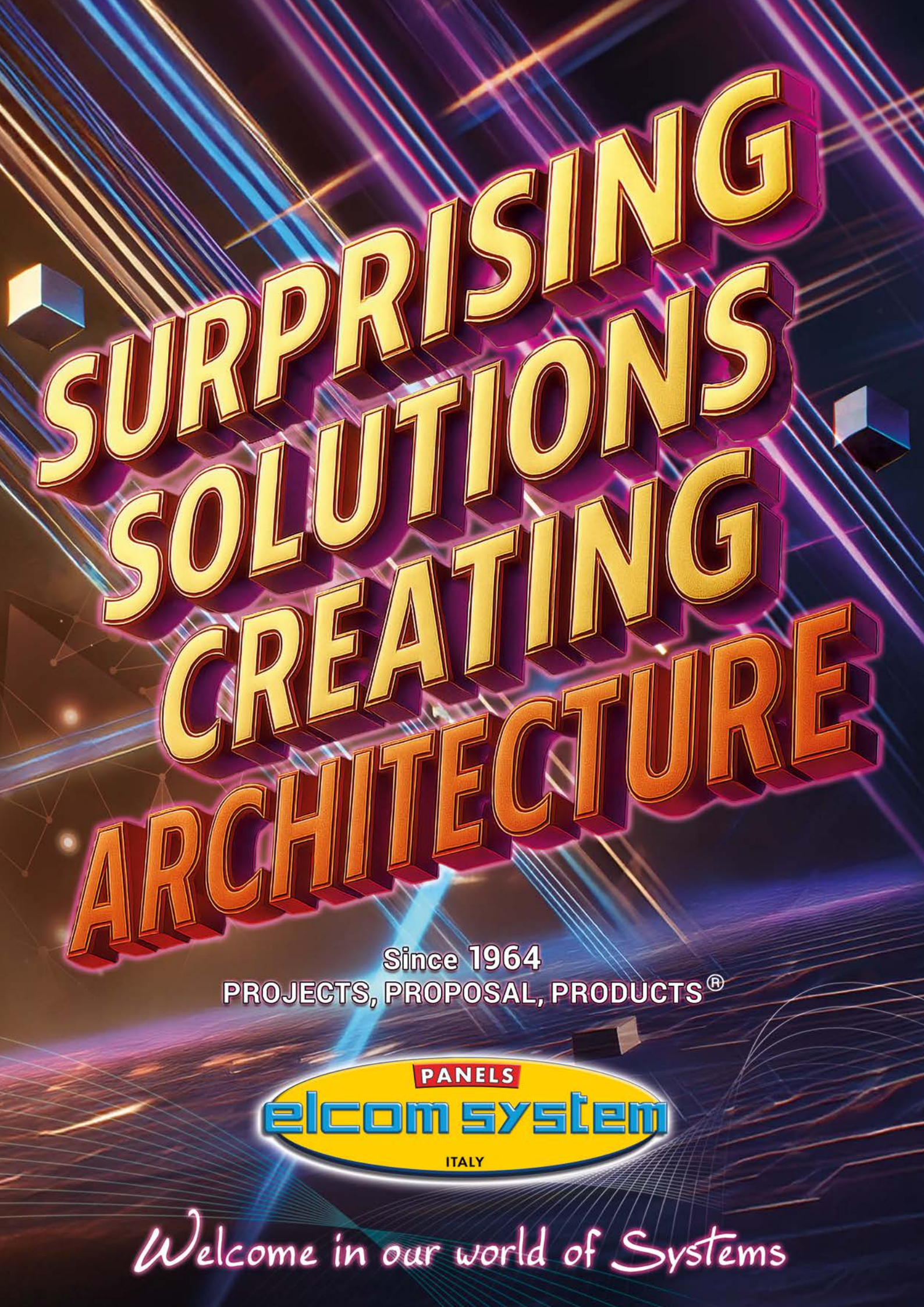

SURPRISING
SOLUTIONS
CREATING
ARCHITECTURE
Since 1964
PROJECTS, PROPOSAL, PRODUCTS®
PANELS
elcom system
ITALY
Welcome in our world of Systems

ITALIAN HISTORICAL TRADEMARK

elcom system

PANNELLI elcom system PERUGIA

Ministry of Enterprises and Made in Italy

Italian historical trademark of national interest approved by the Ministry of Enterprises and Made in Italy

*A recognition obtained thanks to the visionary foresight of our founder **Luigi Granieri**, who as early as 1974 coined and patented the terms TERMOPARETI® and TERMOCOPERTURE®. Due to their originality, clarity, and strong identity, these names have since become iconic-universally recognized today as defining every type of insulated panel manufactured around the world.*

Our brand makes history as Italy honors it with national recognition

index

Termopareti ®
Termocoperture ®

- REGISTERED TRADE NAMES -

elcom system

TERMOPARETI® and **TERMOCOPERTURE®**, conceived and patented in 1974 by Elcom System, are today globally recognized terms used to identify any type of insulated panel. Their widespread presence in the market is a direct result of the company's innovation for which Elcom System still holds these patents.

PANELS elcom system SPA
ITALY

Welcome in our world of Systems

A fantastic entrepreneurial history started in 1920 by Mariano Granieri

It was the year 1920 when Mariano Granieri, born in 1885, founded a small carpentry workshop to build farm carts. This marked the beginning of an entrepreneurial tradition that has endured to this day—and now celebrates 105 years. An Italian story shaped by sacrifice, determination, and hard work. Proudly made in Umbria.

In the early fifties Luigi Granieri (Mariano's son) founds ILFE Serramenti

105 YEARS

GRANIERI

1920 • 2025

OVER A CENTURY OF ACHIEVEMENTS
THAT, FOR THE GRANIERI FAMILY,
REPRESENT BOTH A SOURCE
OF INSPIRATION TO KEEP GROWING
AND A CHALLENGE TO SHAPE THE FUTURE.

One family,
one Tradition, one Responsibility.

1920: Mariano Granieri starts a small carpentry workshop to build farm carts

Elcom System S.p.A. celebrated its 60th anniversary of activity

piccoli traguardi

Our Identity... Our Goals

With over 60 years of history and solid experience, **Elcom System** continually invests in both experimental and applied research to develop cutting-edge design solutions that provide a concrete response to the modern world promoting with increasing priority the synergy between research, technology, production, and safety. The goal is to create unique products that harmoniously reconcile with the identity of their surroundings, enhancing both architectural and landscape contexts.
The **TERMOPARETI®** and **TERMOCOPERTURE® (registered trade names)**, insulated panels, produced by the Company, are open, flexible, and continuously evolving systems, designed and patented to effectively and durably respond to the challenges of contemporary architecture and the needs of increasingly sustainable projects.

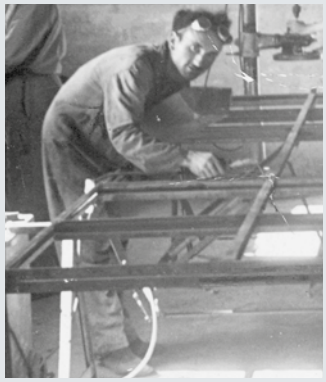
A young Luigi Granieri that makes ILFE Serramenti SpA a nationwide important industrial reality

The new ILFE Serramenti plant in 1964

In 1968 Luigi Granieri (Knight of Labour) receives the "Gold Mercury Award" for ILFE Serramenti

The european “Gold Mercury” awarded to Luigi Granieri

1974: Luigi Granieri's entrepreneurial genius conceives the well-known TERMOPARETI® and TERMOCOPERTURE®
1984: The vibrating platform invented by Luigi Granieri to test the buildings' stability during earthquakes



Luigi Granieri, a 26 year old blacksmith, in his artisan workshop dealing with the construction of the first metal window frames, after having worked on farm carts

Luigi Granieri, Commander of the order of Merit of the Italian Republic, founder of Elcom System (1927 - 2008)

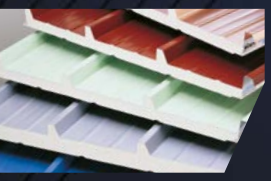
elcom system is...
the added value to your creations, offering innovative and contemporary architectural solutions

Elcom System Spa strongly believes in the development and strengthening of the synergy between research and production to create innovative and succesful products, based on expertise, integrity and strategic vision.

elcom system is...

ISO 9001
UNI EN ISO 9001:2015
New Edition

TERMOPARETI® The well-known monolithic sandwich panels researched and made by Elcom System SpA (certified UNI EN ISO 9001) to offer the best in the field of light prefabrication. They can be used to realize walls, claddings, internal partitions and ceilings.



TERMOCOPERTURE® The monolithic sandwich panels researched and made by Elcom System SpA (certified UNI EN ISO 9001) to offer the best in the field of light prefabrication.
They can be used to realize roofings and ceilings.

SERBOND® The Serbond cladding concept has been developed to offer to the designers the possibility to create tailor-made projects, having not to refer to rigid standars or defined geometric rules. It is a particular versatile system, suitable for all type of structures.

TRAPEZOIDAL SHEETS The trapezoidal sheets have been studied to realize roofings, walls and floors. The possibility of particular ways of shaping, such as cambering and drawing allows for their use in every kind of building

Luigi Granieri launched **Elcom System S.p.A.** in 1964 and since then has been working in the prefabrication sector with a business philosophy dedicated to technological research and innovation.
Over 60 years of consolidated experience, of reliable and versatile solutions to respond to the ever changing needs of architects, designers technicians and professionals.

Elcom System SpA has its seat in the heart of "green Umbria", near the beautiful medieval town of Todi. The company site spans 85.000m², 27.000m² of which accommodate the high-tech production facilities where modular coordinate elements for the prefabrication sector are made. The well-known **TERMOPARETI®** and **TERMOCOPERTURE® (patented)**, architectural wall calddings, trapezoidal sheets for roofs and walls, steel floors, special systems and components with thermic cut, spherical connections, profiles, finishings and fixing accessories are all produced here.

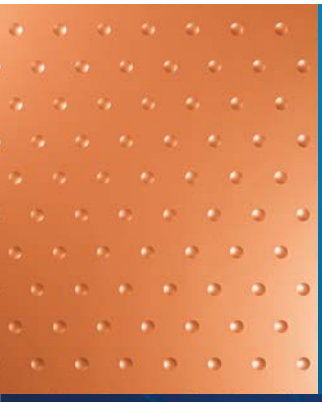
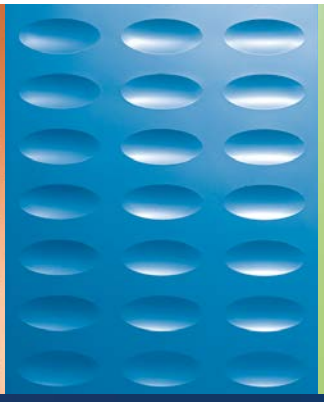
GEOMETRIES

GEOMETRIES

bubble TERMOPARETI® · RUGBY TERMOPARETI® · FLAT TERMOPARETI® · CAOS TERMOPARETI® · EPICO TERMOPARETI®

PATENTED elcom system

NEW


TERMOPARETI®
BUBBLE

Studied to be used in industrial, commercial, residential building and public utilities and to create an original architectural design.

TERMOPARETI®
RUGBY

They have been studied to create original architectural facades with an extraordinary and unusual innovative design almost ignored in the field of thermoinsulating panels in the past.

TERMOPARETI®
FLAT

Monolithic panels developed to offer the best in the light prefabrication field.
The panels can be used for walls, claddings, internal partitions and ceilings.

TERMOPARETI®
CAOS

An ambitious project with a revolutionary concept, both aesthetic and architectural, being brand new in inspiration and design.

TERMOPARETI®
EPICO

The 3D architectural panel. A revolutionary idea that goes beyond the traditional concept of "panel": an innovative product able to redefine aesthetics and architecture.

SURPRISING Solutions CREATING ARCHITECture

WELCOME IN OUR WORLD OF SYSTEMS

PANELS
elcom system
ITALY

TERMOPARETI® TERMOCOPERTURE®

® registered trade names

CE

PANELS elcom system ITALY

Via s.s. Ex Tiberina 3 bis, 218
06059 - PANTALLA di TODI - PG

25
EN 14509

Metal faced insulating panel for use in building
Reference: TERMOPARETI® & TERMOCOPERTURE®
Insulation: PUR / PIR
Support facings: STEEL, ALUMINIUM, COPPER, STAINLESS STEEL, COR-TEN
USE: ROOF and WALLS

Thermal transmittance

Mechanical resistance
- Tensile strength
- Shear strength
- Reduced long-term shear strength
- Shear modulus (core)
- Compressive strength (core)

Creep coefficient

Bending strength: span
- Positive bending
- Positive bending, high temperatures
- Negative bending
- Negative bending, high temperatures

Bending strength: internal support
- positive bending
- positive bending, high temperatures
- negative bending
- negative bending, high temperatures

Wrinkling stress (external face)
- in span
- in span, high temperatures
- with central support
- with central support, high temperatures

Wrinkling stress (internal face)
- in span
- with central support

Reaction to fire

Fire resistance

Behaviour to external fire

Water permeability

Air permeability

Steam permeability

Airborne sound insulation

Sound absorption

Durability

The insulating metal panels called **TERMOPARETI®-TERMOCOPERTURE®** (**® registered trade names**), are the well-known monolithic panels researched and made by **ELCOM SYSTEM S.p.A.** (Certified **UNI EN ISO 9001**) to offer the best in the field of light prefabrication.
With the panels **TERMOPARETI®-TERMOCOPERTURE®** it's possible to realize roofings, walls, claddings, internal partitions, false-ceiling, shelters, canopies etc., and a wide range of little, medium and big prefabricated buildings in the industrial, commercial, residential, social, agricultural and zoothecnical field.
THE COMPANY PRODUCES ALSO THE PANELS CALLED BUBBLE WITH PRESSED SPHERICAL IMPRINTS, RUGBY WITH PRESSED ELLIPTIC IMPRINTS AND THE NEW CAOS AND EPICO, RESEARCHED FOR FAÇADES WITH ORIGINAL ARCHITECTURAL IMPACT.
For tailor-made projects the company produces particular joints and special components such as spherical, right and curved connections with thermic cut, to be used with our products to reach a high and extraordinary architectural standard.

TECHNICAL CHARACTERISTICS
External steel supports: they are obtained from cold profiling of coils of different material: **carbon steel** coated with zinc S 250GD according to UNI EN 10346 norms with mechanical characteristics as foreseen in the D.M. of 14.01.2008 and tolerances as UNI EN 10143 norm; **aluminium** according to UNI EN 1396 norm, with a minimum breaking load of 150 MPa; **copper** according to UNI EN 1172; and **stainless steel** according to EN 10088-1 norms; **COR-TEN**.
The finishing of steel and aluminium supports consists of an organic coat obtained from a cycle of hot standard polyester prepainting, according to UNI EN 10169 norms. On request, different coatings such as **PVC alimentary** EAT or PVDF can be fournished.

It's possible to manufacture **TERMOCOPERTURE®** panels with bitumized feltpaper and/or centesimal aluminium on the internal side. Special roof panels for zootechny, called **ZOOTEC**, are manufactured with the internal support in fibreglass (opaline white). They are indicated for spaces with biological exhalations being resistant to bacteriums, urea and ammonia.
The colours (as per enclosed colour chart) of the panels Termocoperture® and Termopareti®, are obtained with pigments whose stability has been tested.

Insulation: expanded polyurethane (PUR), CFC free, according to UNI EN 13165 norm. On request foams with characteristics of fire-reaction class E can also be fournished. In case of particular needs, foams with a superior fire-reaction (PIR), can be produced. These panels with class Bs2d0 UNI EN 13501-1 have better performances as far as concerns fire reaction/ resistance.

The main characteristics of the foams are:
- Density: ~ 40 kg/m3.
- compressive strenght: 140 -150 KPa
- impermeability: 98% closed cells, (nonhygroscopic material)

Tolerances (according to the enclosed D UNI EN 14509):
- Thickness of panels (respective to the declared value):
  D ≤ 100 mm ± 2 mm
  D > 100 mm ± 2%
- Length of panels ≤ 3000 mm ± 5 mm / > 3000 mm ± 10 mm
- Flatness: L = 200 mm l ≤ 0,6 mm
  L = 400 mm l ≤ 1 mm
  L > 700 mm l ≤ 1,5 mm
  (L = distance between the points of measurment)
- Out of square on cut s ≤ 0,6% of the useful width
- Rib span: ± 2 mm

Permissible Loads: The values shown in the tables, are indicative, calculated according to the ECCS and AIPPEG recommendations, and confirmed by experiments.
For dimensions and test refer to the UNI EN 14509 norm, enclosed E.

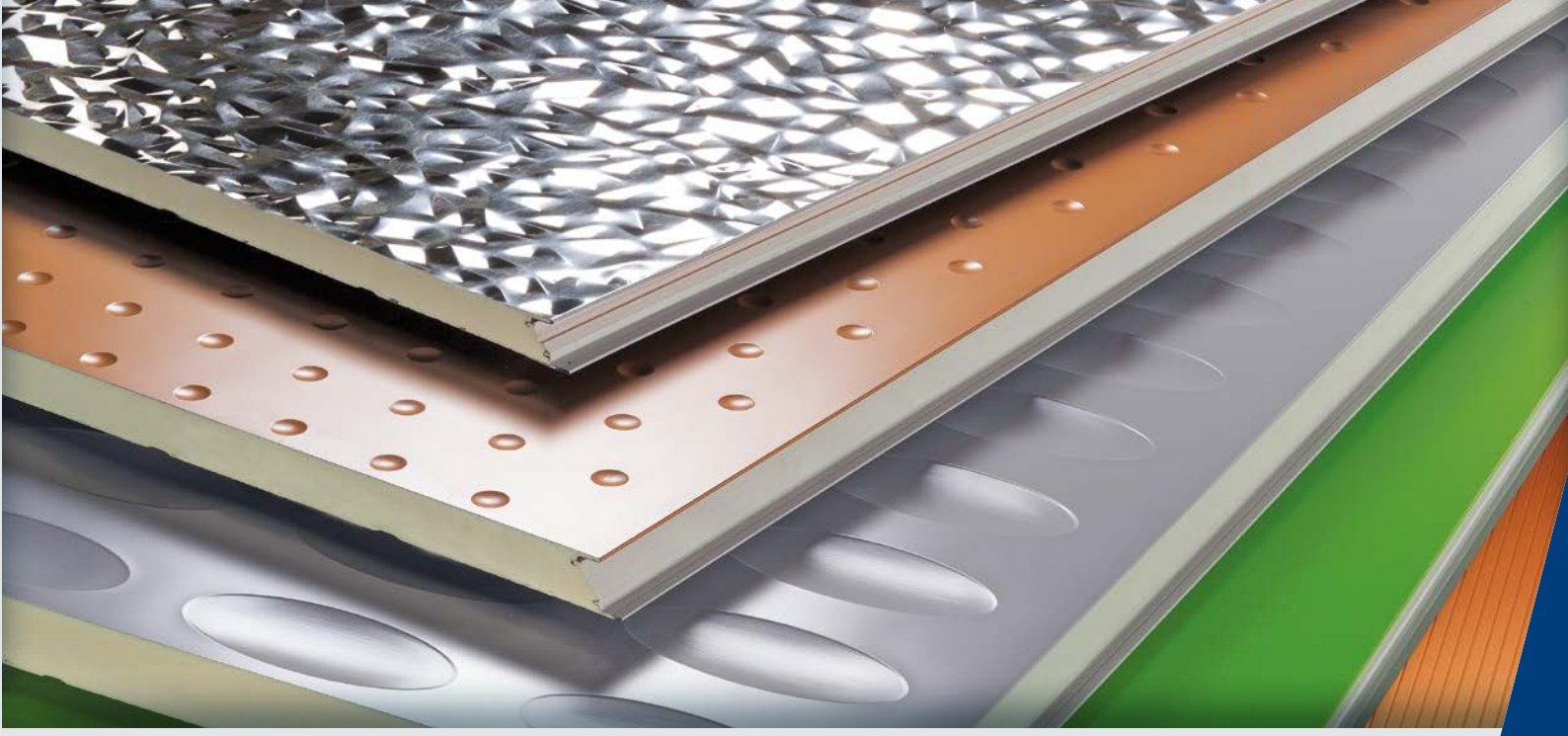
Peculiar Characteristics: The panels **TERMOPARETI®** are equipped, in the female joint, with a special continuous PVC fixed-in profile, to increase the overall fixing stability of the panel and to avoid detachments of the supports from the insulation either during their handling or in the working phase (excluded panels with visible fixings thicknesses 25-30-100-120-150-180 mm).

The panels **TERMOPARETI®** and **TERMOCOPERTURE®** made by **ELCOM SYSTEM** with polyisocianurate foam (PIR) have been certified with a fire reaction **Bs2 d0** according to the european norm EN13501-1 and a fire resistance **EI20**, **EI30** and **REI20** according to the EN13501-2 Norm.
The PIR foam (polyisocianurate) has the same insulation characteristics of the standard polyurethane, but has better performances as far as concerns fire reaction and fire resistance. PIR foam is the result of the reaction of polyol and a high proportion of isocyanate. This last reacts with itself to form a thermoset plastic; this reaction is called trimerization.
These PIR compounds that are typically cyclic, lend to the foam better performances as far as concerns fire reaction and fire resistance than the traditional PUR foam, in fact, when burning, there is less smoke production as shows also the classification assigned to the panels. i.e. **B-s2 d0**.
As soon as the CE marking and the new european classification according to the EUROCLASSES as per EN13501-1 came into force, an evolution in the performances of fire reaction has been necessary.

PIR | EI 20 | EI 30 | REI 20 | PIR B-s2,d 0 | B Roof T3

PANELS elcom system ITALY


Laboratorio
Farmaceutico
SIT



TERMOPARETI ®

® registered trade name

Surprising Solutions creating Architecture

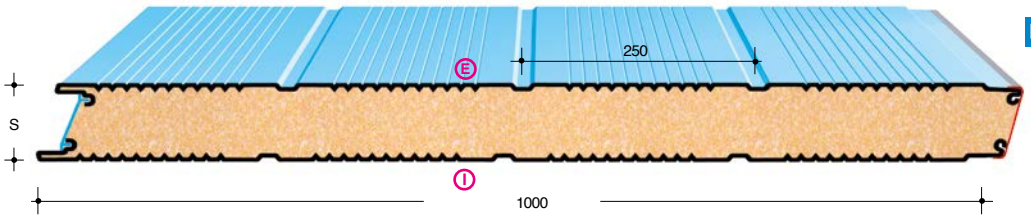
PANELS elcom system ITALY

TERMOPARETI ® HIDDEN FIXING

® registered trade name

TYPE
WP/ST

S=Thickness mm.
35-40
50-60-80-100

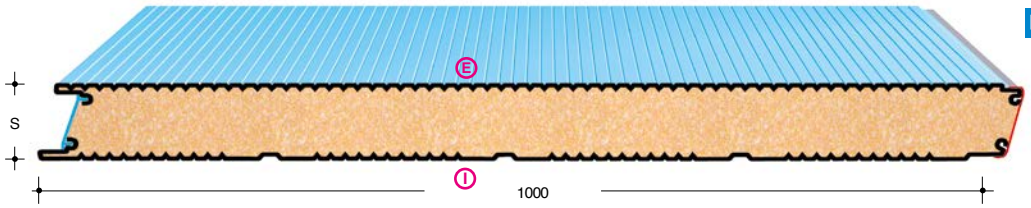


OPTION
PIR B-s2,d 0

EI 30 thickness 100 mm only

TYPE
WPM/C-FN

S=Thickness mm.
35-40
50-60-80-100

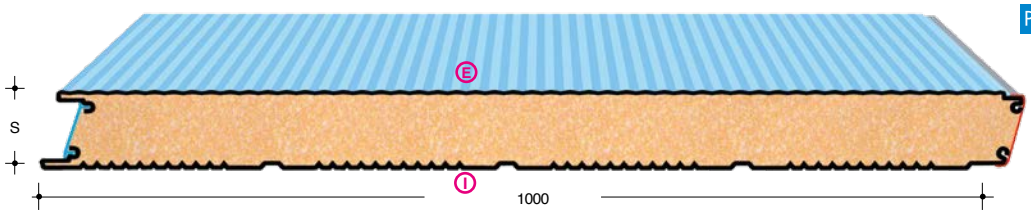


OPTION
PIR B-s2,d 0

EI 30 thickness 100 mm only

TYPE
WPM/C-FN MICRO

S=Thickness mm.
35-40
50-60-80-100



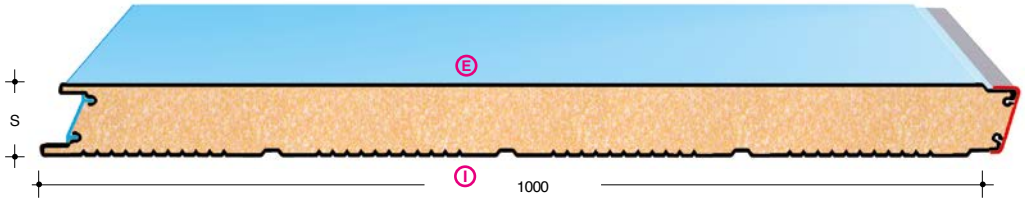
OPTION
PIR B-s2,d 0

EI 30 thickness 100 mm only

TERMOPARETI® FLAT

TYPE
WP/ST FLAT

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

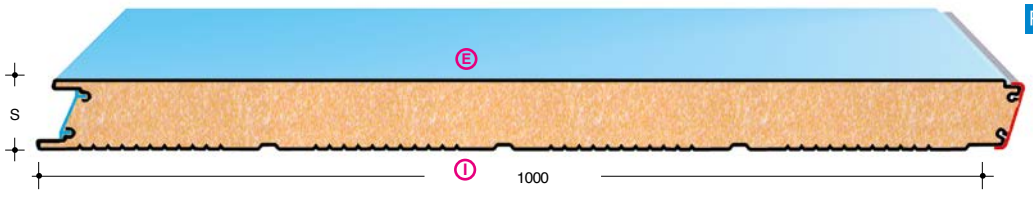


OPTION
PIR B-s2,d 0

EI 30 thickness 100 mm only

TYPE
WPM/C-FN FLAT

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



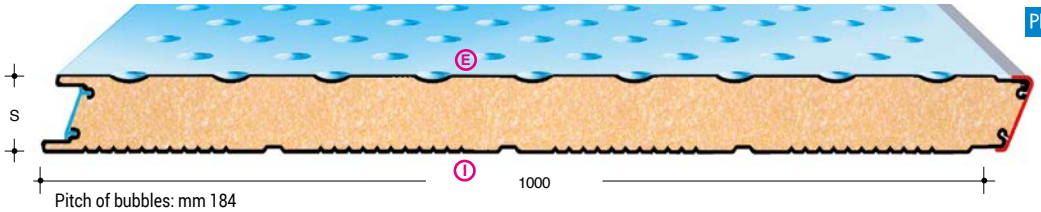
OPTION
PIR B-s2,d 0

EI 30 thickness 100 mm only

bubble TERMOPARETI®

TYPE
WP/ST BUBBLE

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



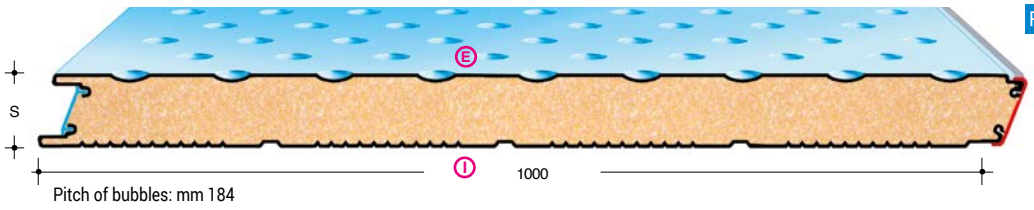
Pitch of bubbles: mm 184

OPTION
PIR B-s2,d 0

EI 30 thickness 100 mm only

TYPE
WPM/C-FN BUBBLE

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



Pitch of bubbles: mm 184

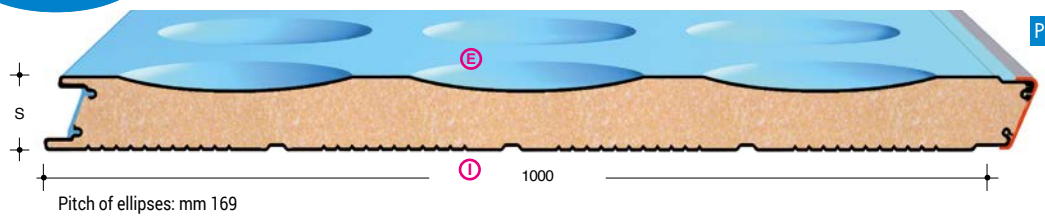
OPTION
PIR B-s2,d 0

EI 30 thickness 100 mm only

PANELS elcom system ITALY

TERMOPARETI®
RUGBY

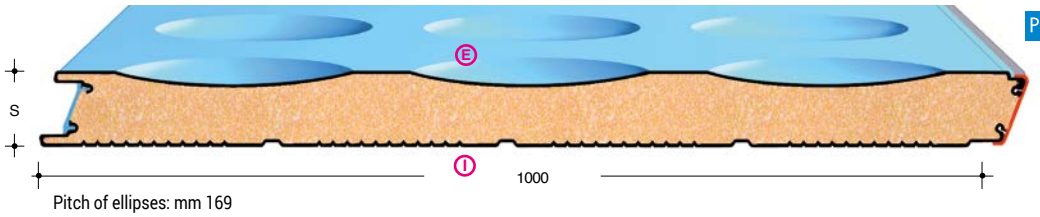
TYPE
WP/ST RUGBY
S=Thickness mm.
40-50
60-80-100



Pitch of ellipses: mm 169

OPTION
PIR B-s2,d 0
EI 30
thickness 100 mm only

TYPE
WPM/C-FN RUGBY
S=Thickness mm.
40-50
60-80-100

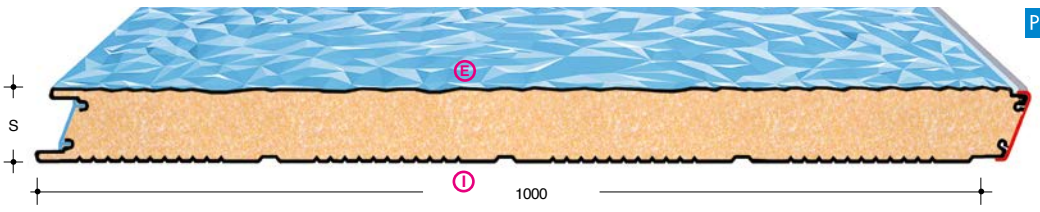


Pitch of ellipses: mm 169

OPTION
PIR B-s2,d 0
EI 30
thickness 100 mm only

TERMOPARETI®
CAOS

TYPE
WPM/C-FN CAOS
S=Thickness mm.
40-50
60-80-100

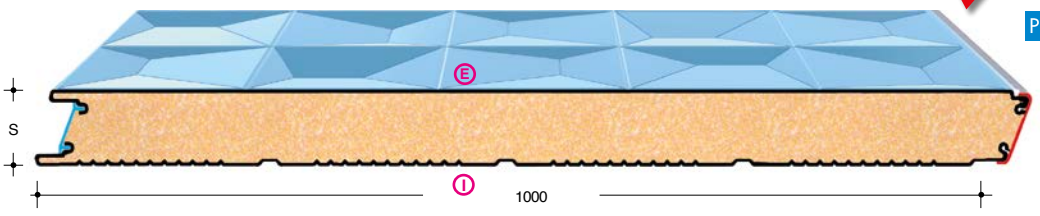


OPTION
PIR B-s2,d 0
EI 30
thickness 100 mm only

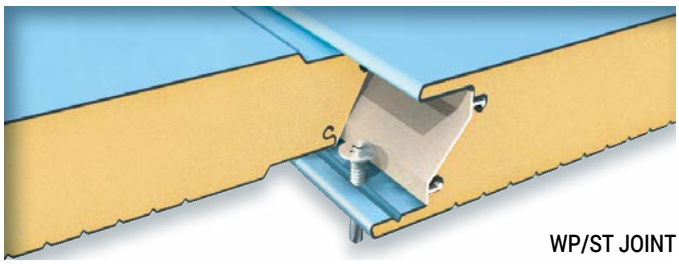
TERMOPARETI®
EPICO
The 3D Architectural Panel

NEW

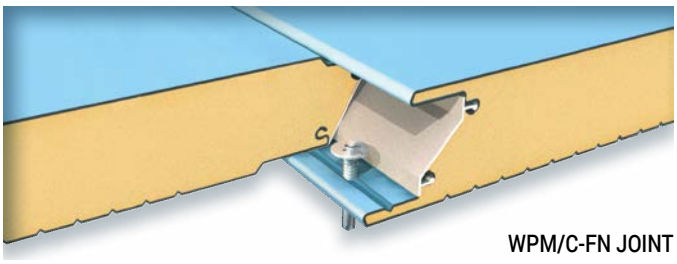
TYPE
WPM/C-FN EPICO
S=Thickness mm.
40-50
60-80-100



OPTION
PIR B-s2,d 0
EI 30
thickness 100 mm only



WP/ST JOINT

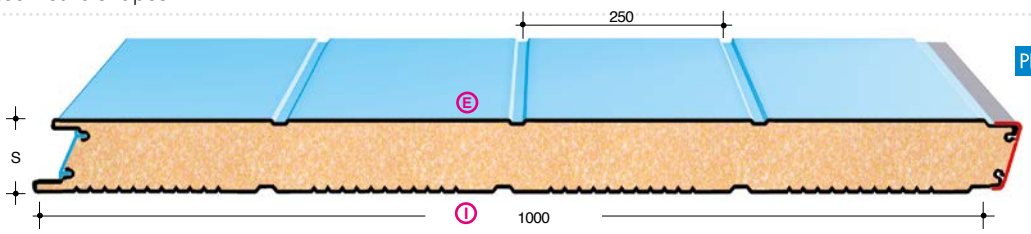


WPM/C-FN JOINT

WP/ST ALTERNATIVE 1-2-3-4

The panels type **WP/ST ALTERNATIVE 1-2-3-4** create visually a module of 250 and 500 mm width, both horizontally and vertically, obtaining thus original geometric shapes.

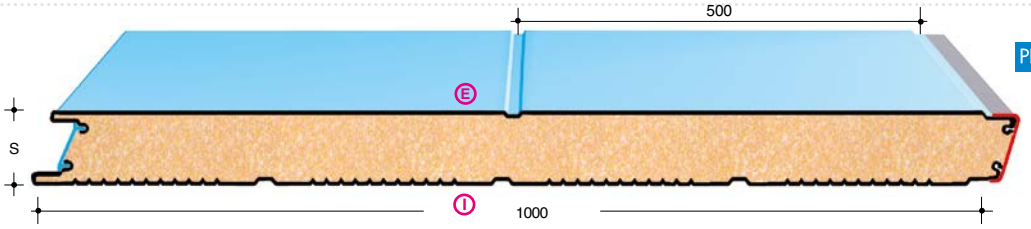
TYPE **WP/ST ALT 1**
S=Thickness mm. 40-50 60-80-100



OPTION PIR B-s2,d 0

thickness 100 mm only

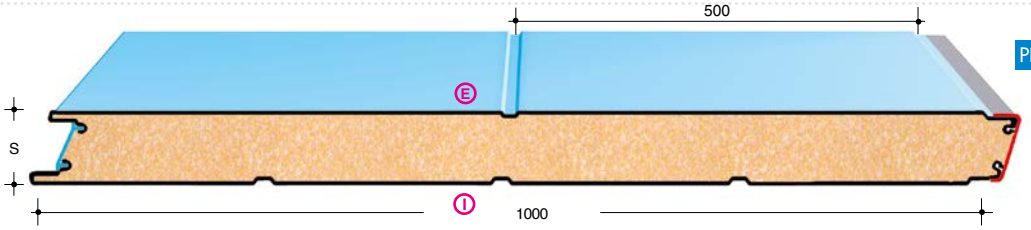
TYPE **WP/ST ALT 2**
S=Thickness mm. 40-50 60-80-100



OPTION PIR B-s2,d 0

thickness 100 mm only

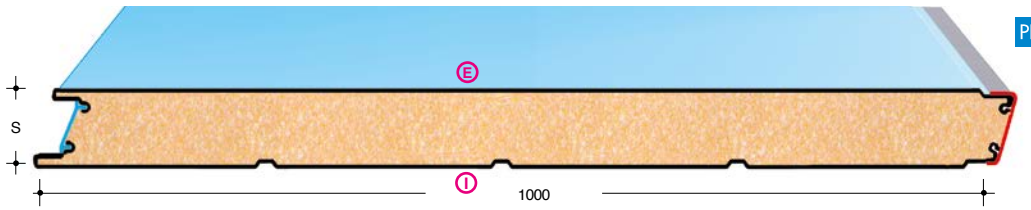
TYPE **WP/ST ALT 3**
S=Thickness mm. 40-50 60-80-100



OPTION PIR B-s2,d 0

thickness 100 mm only

TYPE **WP/ST ALT 4**
S=Thickness mm. 40-50 60-80-100



OPTION PIR B-s2,d 0

thickness 100 mm only

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
25	1,209	0,827	9,58	Kg/m²	125	85	60	50	40	130	95	70	60	50
				KN/m²	1,23	0,83	0,59	0,49	0,39	1,27	0,93	0,68	0,59	0,49
30	1,435	0,697	9,77	Kg/m²	140	95	70	55	45	145	105	80	65	55
				KN/m²	1,37	0,94	0,69	0,54	0,44	1,42	1,03	0,78	0,64	0,54
35	1,647	0,607	9,96	Kg/m²	145	100	80	60	50	155	115	90	70	60
				KN/m²	1,42	0,98	0,78	0,59	0,49	1,52	1,12	0,88	0,68	0,58
40	1,866	0,536	10,15	Kg/m²	166	125	90	70	55	178	140	108	85	70
				KN/m²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	2,309	0,433	10,53	Kg/m²	225	160	120	90	70	245	182	140	115	90
				KN/m²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	2,747	0,364	10,91	Kg/m²	289	216	142	115	85	321	237	181	141	115
				KN/m²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	3,623	0,276	11,67	Kg/m²	455	316	227	160	120	500	365	280	215	145
				KN/m²	4,46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	4,504	0,222	12,63	Kg/m²	470	345	260	200	160	510	390	285	225	180
				KN/m²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76
120	5,376	0,186	13,43	Kg/m²	510	435	290	260	200	535	445	320	290	210
				KN/m²	4,99	4,26	2,84	2,55	1,96	5,24	4,36	3,13	2,84	2,06

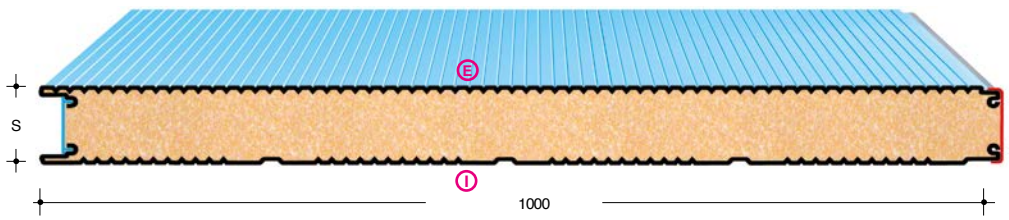
LOAD CONDITIONS WITH STEEL SUPPORTS:
The values shown in the tables are indicative and referred to a deflection f≤1/200 of the span ℓ (m) for panels with thickness of **STEEL** supports 0,5+0,5 mm.
For sizing and checking refer to the enclosed E of the UNI EN 14509 Norm and to the values shown in the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

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	5,16	Kg/m²	108	64	41	27	19	149	95	64	44	32
				KN/m²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	2,309	0,433	5,56	Kg/m²	150	92	60	41	29	194	129	89	63	46
				KN/m²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	2,747	0,364	5,96	Kg/m²	191	121	81	56	40	237	162	114	83	62
				KN/m²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	3,623	0,276	6,76	Kg/m²	272	180	125	89	65	317	225	165	124	95
				KN/m²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	4,504	0,222	7,56	Kg/m²	290	235	180	110	90	310	255	190	135	100
				KN/m²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98
120	5,376	0,186	8,36	Kg/m²	315	270	210	185	110	340	295	240	195	135
				KN/m²	3,09	2,64	2,06	1,81	1,08	3,33	2,89	2,35	1,91	1,32

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 Ⓘ Ⓔ shows the required painted side.

TYPE
WPM/C

S
Thickness mm.
25-30-35-40
50-80-100-120

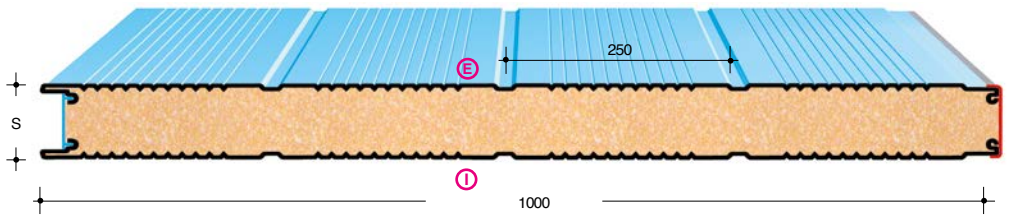


OPTION
PIR B-s2,d 0

EI 20
Thickness 100 and 120 mm only

TYPE
TPG/C-ST

S
Thickness mm.
25-30-35-40
50-80-100-120

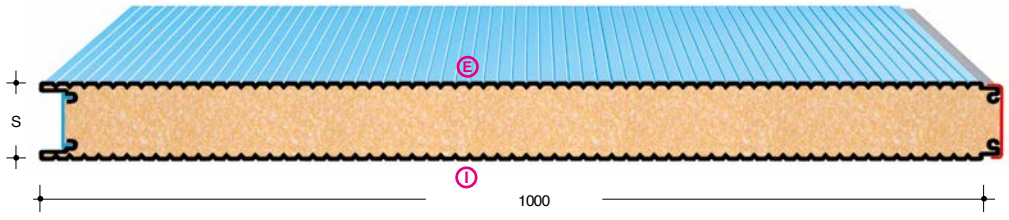


OPTION
PIR B-s2,d 0

EI 20
Thickness 100 and 120 mm only

TYPE
TPM/C-ST

S
Thickness mm.
25-30-35-40
50-80-100-120

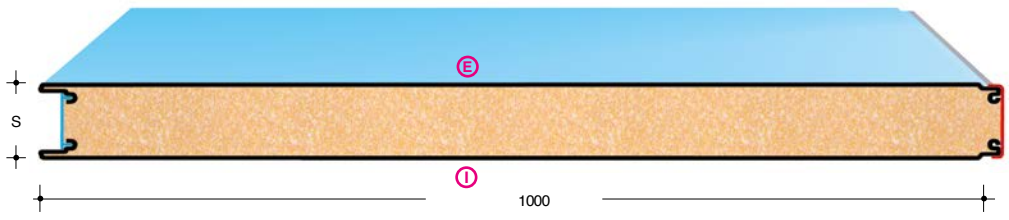


OPTION
PIR B-s2,d 0

EI 20
Thickness 100 and 120 mm only

TYPE
TPL/C-ST

S
Thickness mm.
30-35-40-50
80-100-120

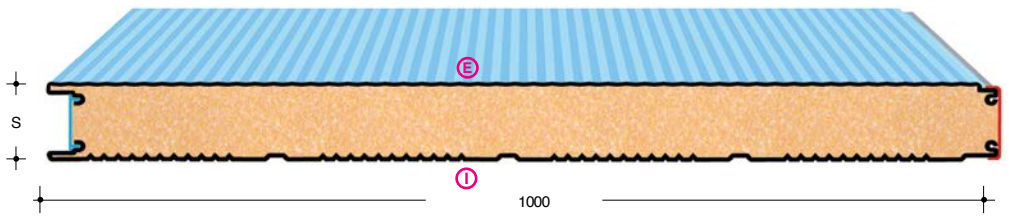


OPTION
PIR B-s2,d 0

EI 20
Thickness 100 and 120 mm only

TYPE
WPM/C MICRO

S
Thickness mm.
25-30-35-40
50-80-100-120

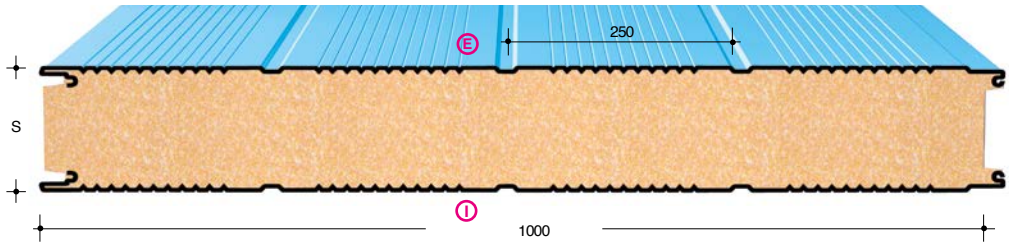


OPTION
PIR B-s2,d 0

EI 20
Thickness 100 and 120 mm only

TYPE
TPG/C-LAB

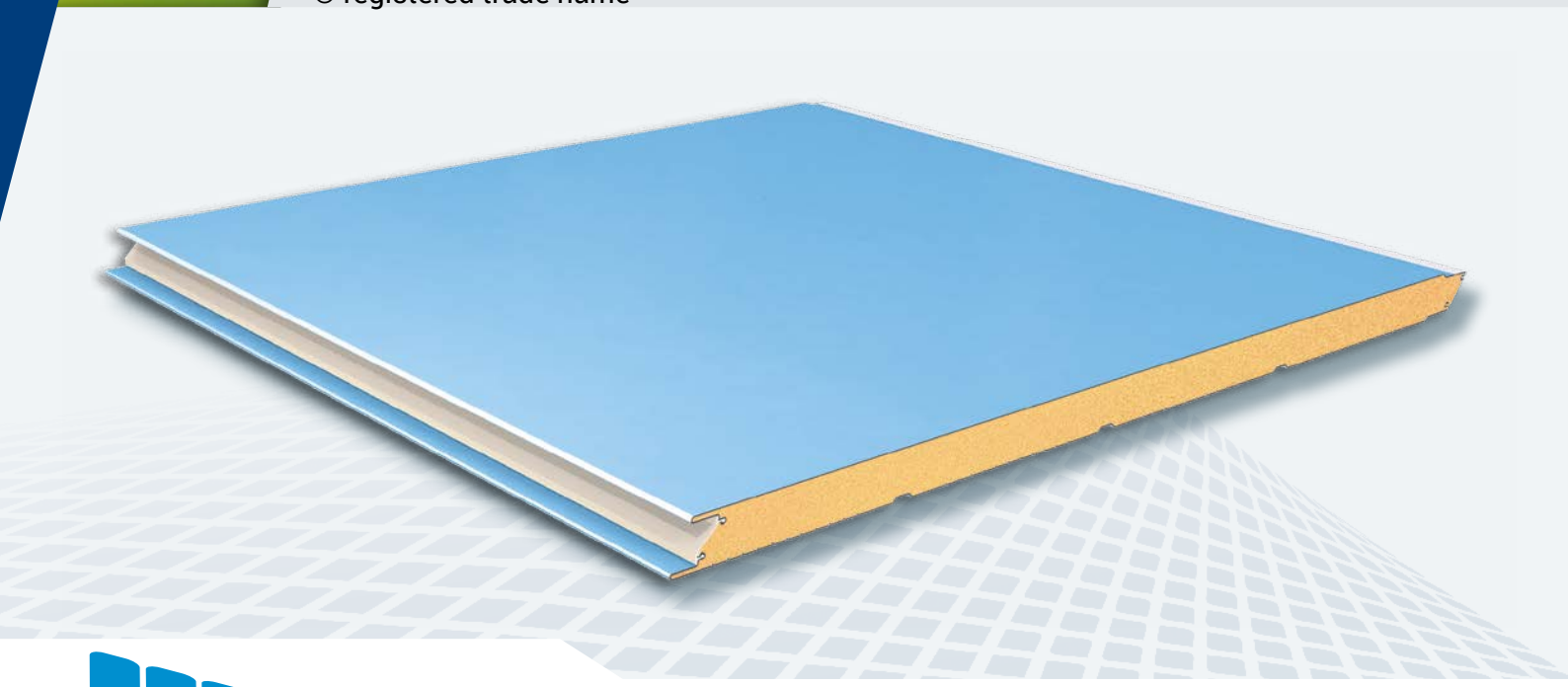
S
Thickness mm.
150-180



OPTION
PIR B-s2,d 0

TERMOPARETI® FLAT

® registered trade name



TERMOPARETI® FLAT

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 minimum yielding limit 150 MPa
COPPER - UNI EN 1172
COR-TEN
STAINLESS STEEL - according UNI EN 10088-1 Norm
Insulation: PUR or PIR density ~ 40 Kg/m³
Thickness: mm. 40-50-60-80-100
Standard panel: Width mm. 1000

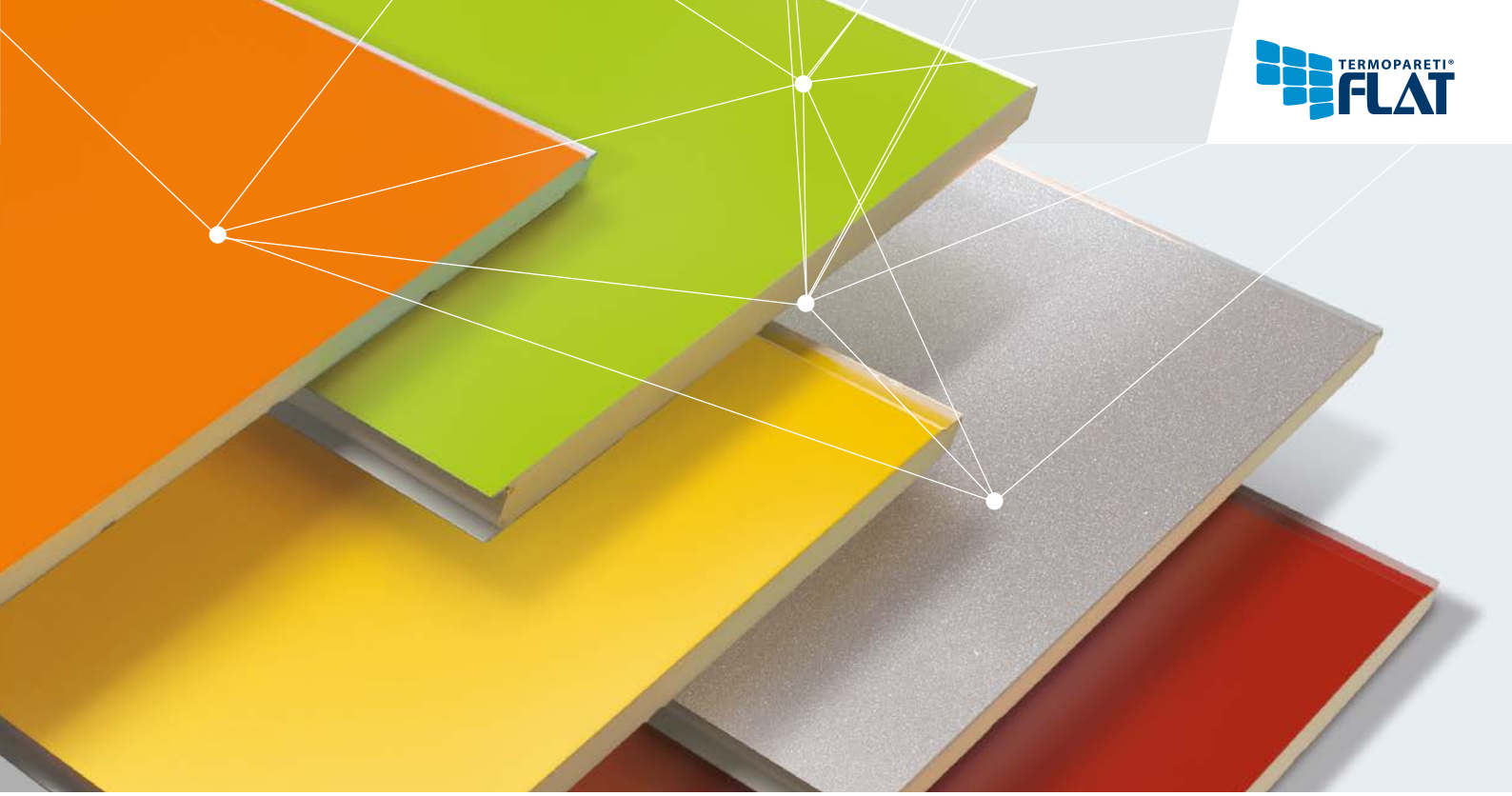
The panels **TERMOPARETI® FLAT** are available in different types and the have been studied to be used in industrial, commercial, residential building and public utilities for new buildings and renovations. The panels can be used for continuous and/or discontinuous external walls, internal partitions and ceilings.The product, thanks to its characteristics, can be widely employed and architects and designers have freedom of choice in a wide range of materials and colours. The panels can be used on any type of structure such as metallic, concrete and wood, and their installation can be vertical, horizontal or inclined. The panels are connected to each other by a joint and they are fixed with specific accessories. Elements with thermic cut such as rounded and right corners, edges and spherical connections are used to complete the **TERMOPARETI® FLAT** and reach a high aesthetic standard.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	10,15	Kg/m²	166	125	90	70	55	178	140	108	85	70
				KN/m²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	2,309	0,433	10,53	Kg/m²	225	160	120	90	70	245	182	140	115	90
				KN/m²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	2,747	0,364	10,91	Kg/m²	289	216	142	115	85	321	237	181	141	115
				KN/m²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	3,623	0,276	11,67	Kg/m²	455	316	227	160	120	500	365	280	215	145
				KN/m²	4.46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	4,504	0,222	12,63	Kg/m²	470	345	260	200	160	510	390	285	225	180
				KN/m²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76

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 Ⓘ Ⓔ shows the required painted side.

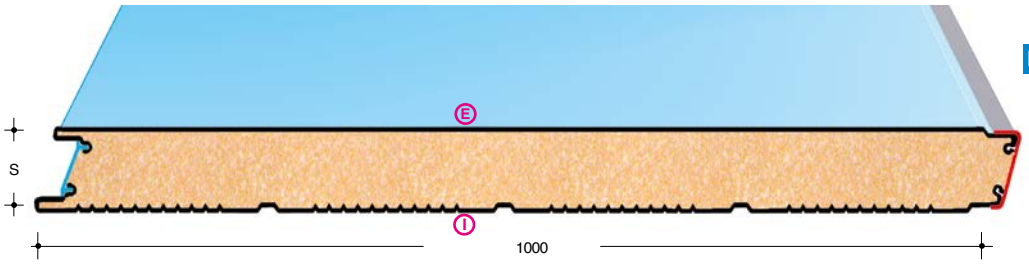
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	5,16	Kg/m²	108	64	41	27	19	149	95	64	44	32
				KN/m²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	2,309	0,433	5,56	Kg/m²	150	92	60	41	29	194	129	89	63	46
				KN/m²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	2,747	0,364	5,96	Kg/m²	191	121	81	56	40	237	162	114	83	62
				KN/m²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	3,623	0,276	6,76	Kg/m²	272	180	125	89	65	317	225	165	124	95
				KN/m²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	4,504	0,222	7,56	Kg/m²	290	235	180	110	90	310	255	190	135	100
				KN/m²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98

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 Ⓘ Ⓔ shows the required painted side.



TYPE
WP/ST FLAT

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

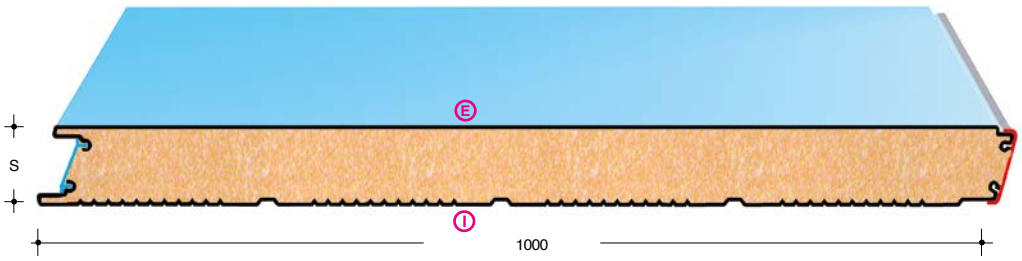


OPTION
PIR B-s2,d 0

EI 30
thickness 100 mm only

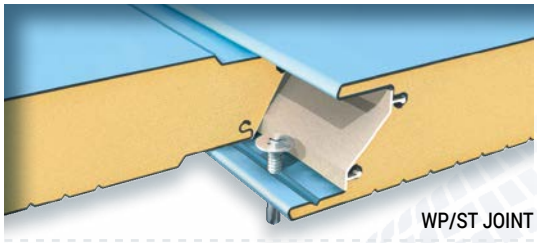
TYPE
WPM/C-FN FLAT

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

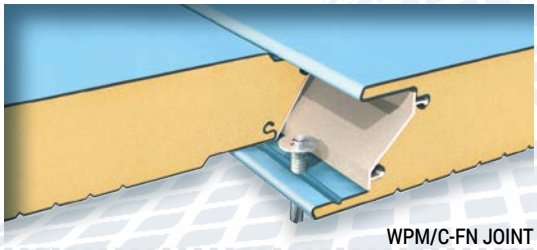


OPTION
PIR B-s2,d 0

EI 30
thickness 100 mm only

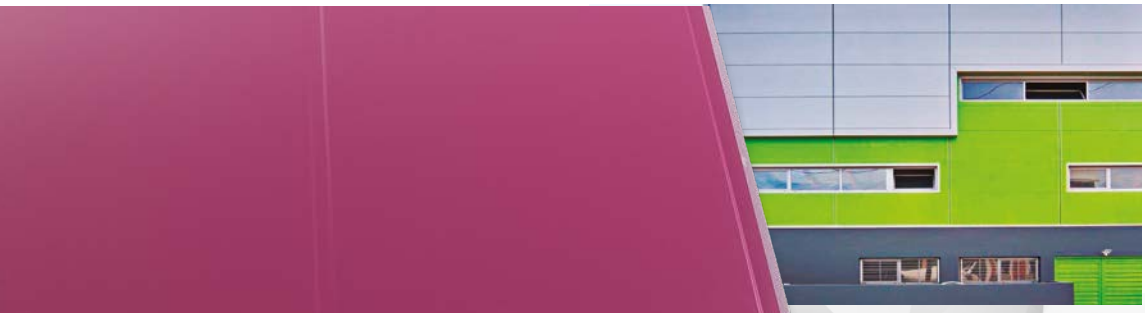


WP/ST JOINT



WPM/C-FN JOINT

PANELS elcom system ITALY



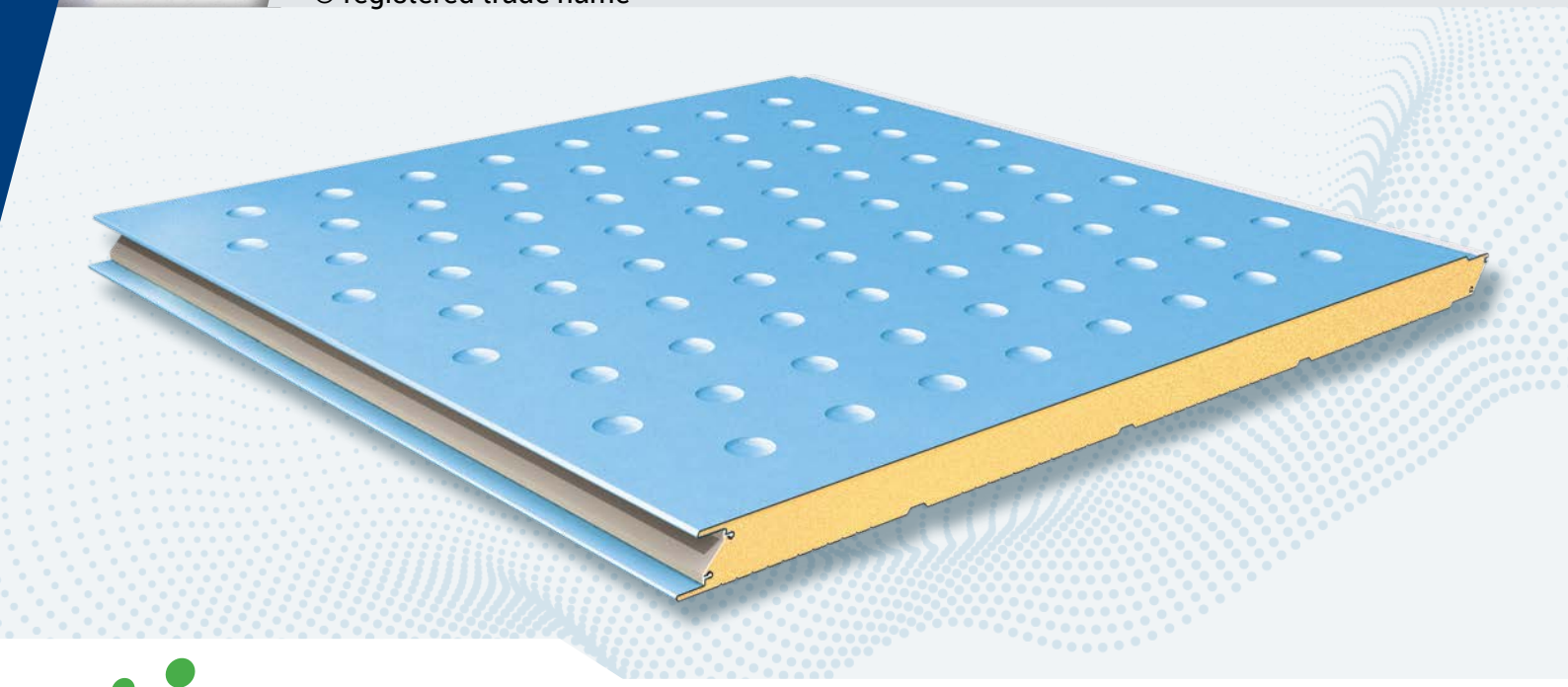
Enhancing the value of your architectural projects.


MAGRIS
GROUP
MACCHINE E PRODOTTI PER LA PULIZIA
KÄRCHER


COSPEA
VILLAGE
OVS

TERMOPARETI® BUBBLE

® registered trade name



bubble TERMOPARETI®

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 minimum yielding limit 150 MPa
COPPER - UNI EN 1172
COR-TEN
STAINLESS STEEL - according UNI EN 10088-1 Norm
Insulation: PUR or PIR density ~ 40 Kg/m³
Thickness: mm. 40-50-60-80-100
Standard panel: Width mm. 1000

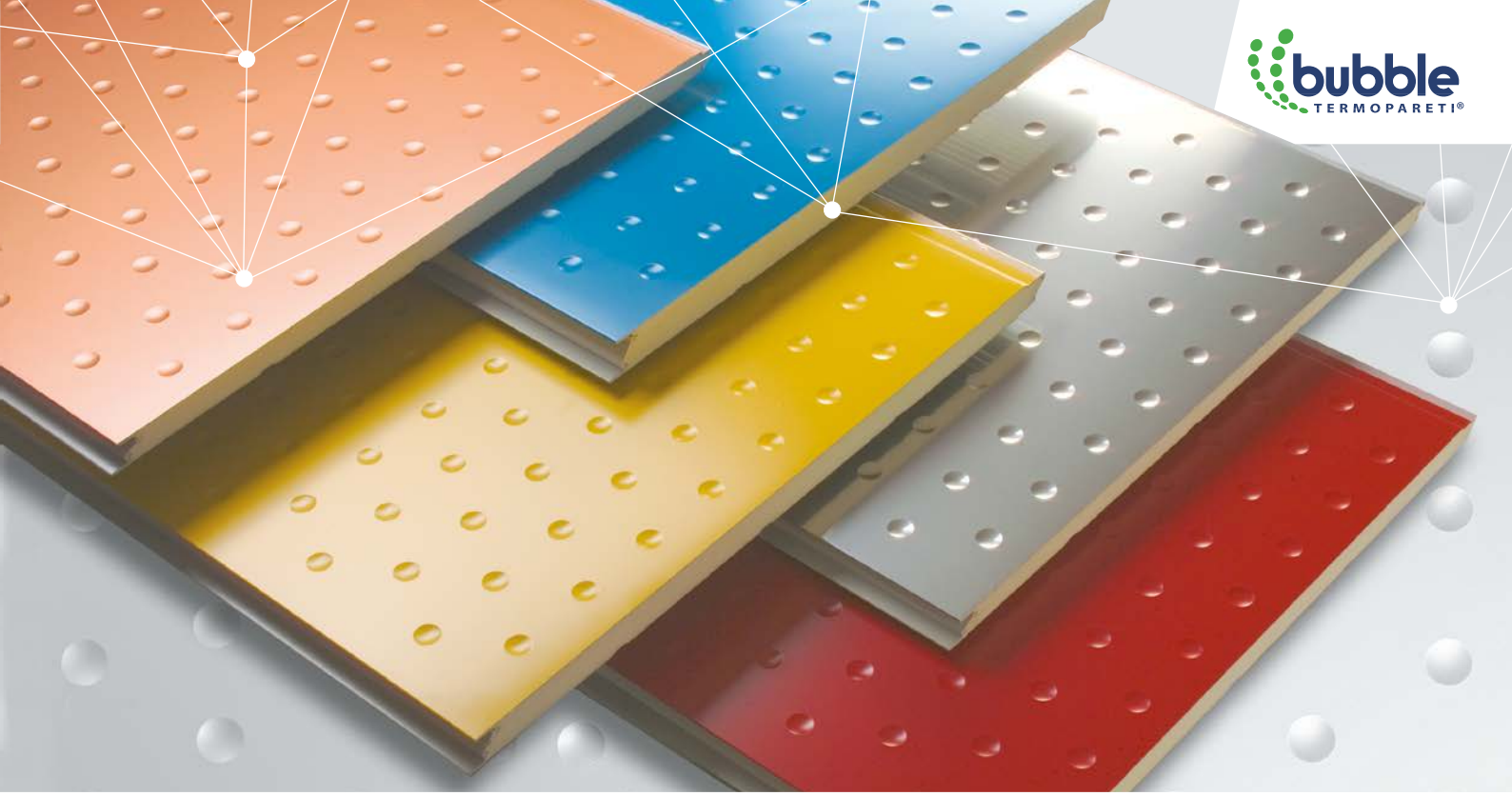
The panels **TERMOPARETI® BUBBLE (patented)** are available in different types and are unlike the traditional panels. In fact they have been studied to create original architectural impressions and they can be used in industrial, commercial, residential building and public utilities, for new buildings and renovations. The panels can be used for continuous and/or discontinuous external walls, internal partitions and ceilings. The product, thanks to its characteristics, can be widely employed and architects, designers and end users have freedom of choice in a wide range of materials and colours. The panels can be used on any type of structure such as metallic, concrete and wood, and their application can be vertical, horizontal or inclined. They are fixed with specific accessories.
The peculiarity of the **BUBBLE** panels is on the external surface: pressed spherical imprints on the steel that give an impressive architectural effect to the building. The imprints are negative respective the external side of the support and they can be realized on different materials such as galvanized and/or prepainted steel, aluminium, stainless steel and copper. Elements with thermic cut such as rounded and right corners, edges and spherical connections are used to complete the **TERMOPARETI® BUBBLE** and reach a high aesthetic standard.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	10,15	Kg/m²	166	125	90	70	55	178	140	108	85	70
				KN/m²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	2,309	0,433	10,53	Kg/m²	225	160	120	90	70	245	182	140	115	90
				KN/m²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	2,747	0,364	10,91	Kg/m²	289	216	142	115	85	321	237	181	141	115
				KN/m²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	3,623	0,276	11,67	Kg/m²	455	316	227	160	120	500	365	280	215	145
				KN/m²	4.46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	4,504	0,222	12,63	Kg/m²	470	345	260	200	160	510	390	285	225	180
				KN/m²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76

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 Ⓘ Ⓔ shows the required painted side.

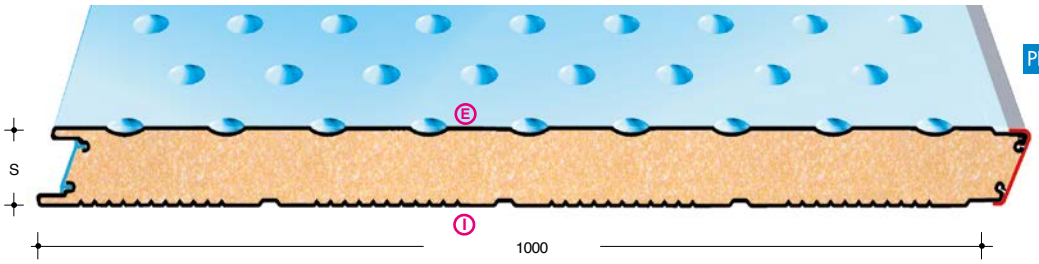
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	5,16	Kg/m²	108	64	41	27	19	149	95	64	44	32
				KN/m²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	2,309	0,433	5,56	Kg/m²	150	92	60	41	29	194	129	89	63	46
				KN/m²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	2,747	0,364	5,96	Kg/m²	191	121	81	56	40	237	162	114	83	62
				KN/m²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	3,623	0,276	6,76	Kg/m²	272	180	125	89	65	317	225	165	124	95
				KN/m²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	4,504	0,222	7,56	Kg/m²	290	235	180	110	90	310	255	190	135	100
				KN/m²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98

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 Ⓘ Ⓔ shows the required painted side.



TYPE
WP/ST BUBBLE

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



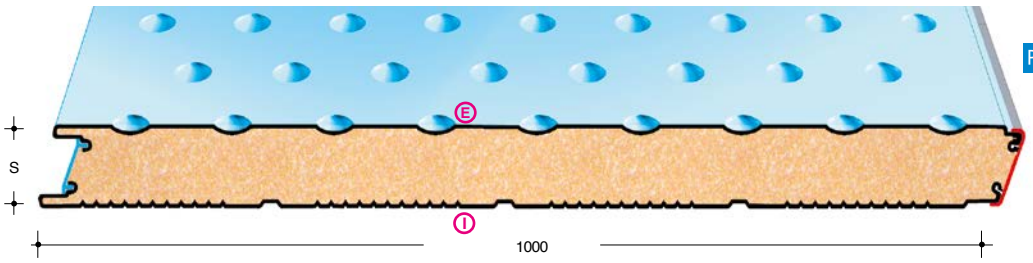
Longitudinal pitch of bubbles: mm 184

OPTION
PIR B-s2,d 0

EI 30
thickness 100 mm only

TYPE
WPM/C-FN BUBBLE

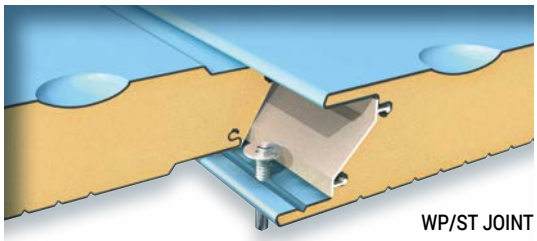
S
Thickness mm.
40-50
60-80-100



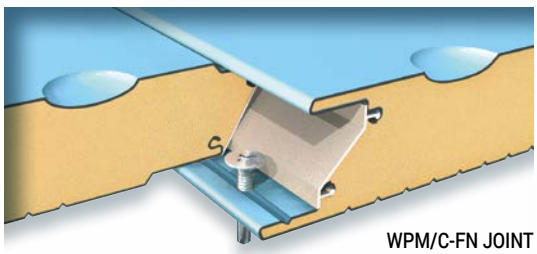
Longitudinal pitch of bubbles: mm 184

OPTION
PIR B-s2,d 0

EI 30
thickness 100 mm only



WP/ST JOINT



WPM/C-FN JOINT

Original, unusual, modern

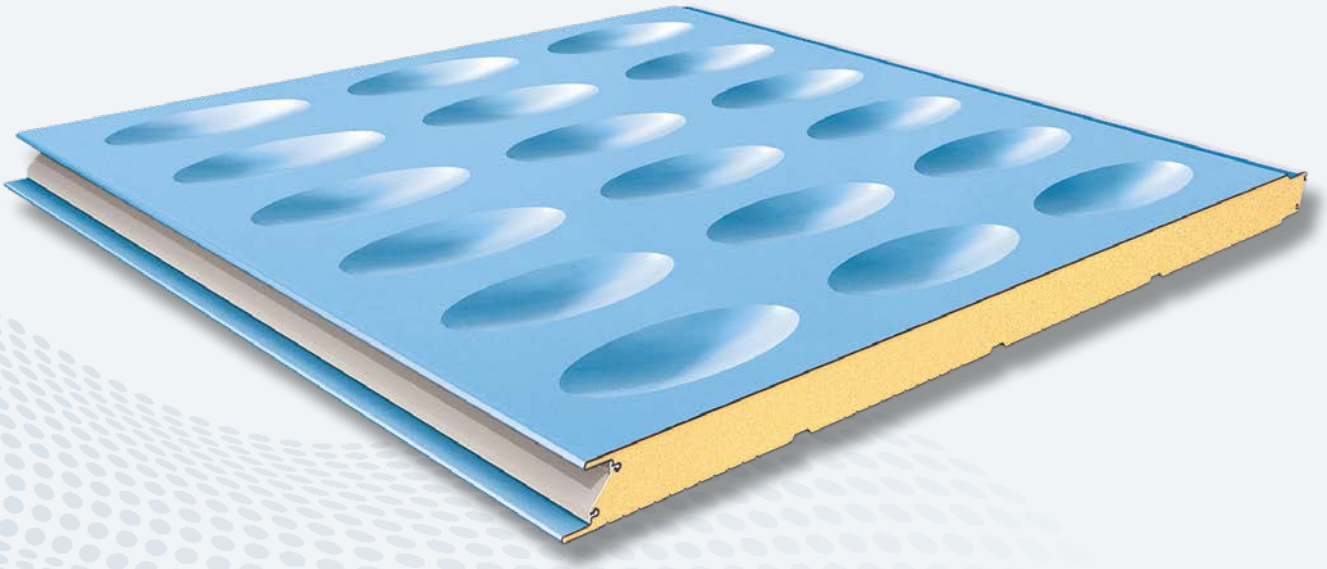
PANELS
elcom system
ITALY

bubble TERMOPARETI®

PANELS elcom system ITALY

TERMOPARETI® RUGBY

® registered trade name



TERMOPARETI® RUGBY

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 minimum yielding limit 150 MPa
COPPER - UNI EN 1172
COR-TEN
STAINLESS STEEL - according UNI EN 10088-1 Norm
Insulation: PUR or PIR density ~ 40 Kg/m³
Thickness: mm. 40-50-60-80-100
Standard panel: Width mm. 1000

The panels **TERMOPARETI® RUGBY (patented)** have been studied to create original architectural facades with an extraordinary and unusual innovative design that was considered unimportant in the field of thermoinsulating panels in the past. The panels are available in different thicknesses and colours and they can be used in industrial, commercial, residential building and public utilities, for new buildings and renovations. Their special feature is on the external surface: important and significant elliptic imprints pressed on the steel that are negative respective the external side of the support and can be realized on all materials normally used for profiling such as prepainted steel, aluminium, stainless steel and copper. Elements with thermic cut such as rounded and right corners, edges and spherical connections finish and increase the value of the **TERMOPARETI® RUGBY**.

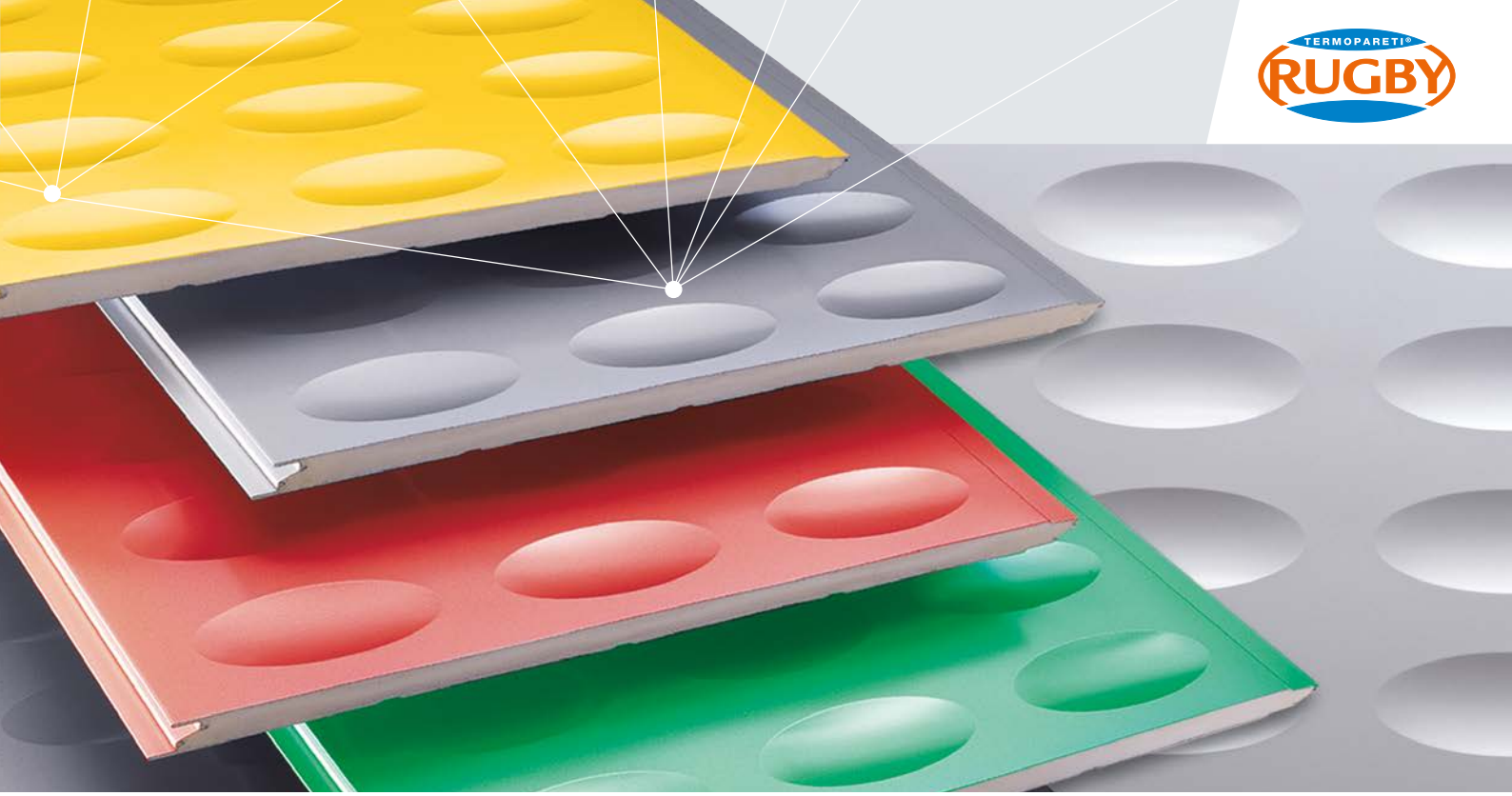
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	10,15	Kg/m²	166	125	90	70	55	178	140	108	85	70
				KN/m²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	2,309	0,433	10,53	Kg/m²	225	160	120	90	70	245	182	140	115	90
				KN/m²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	2,747	0,364	10,91	Kg/m²	289	216	142	115	85	321	237	181	141	115
				KN/m²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	3,623	0,276	11,67	Kg/m²	455	316	227	160	120	500	365	280	215	145
				KN/m²	4.46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	4,504	0,222	12,63	Kg/m²	470	345	260	200	160	510	390	285	225	180
				KN/m²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76

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 Ⓘ Ⓔ shows the required painted side.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	5,16	Kg/m²	108	64	41	27	19	149	95	64	44	32
				KN/m²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	2,309	0,433	5,56	Kg/m²	150	92	60	41	29	194	129	89	63	46
				KN/m²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	2,747	0,364	5,96	Kg/m²	191	121	81	56	40	237	162	114	83	62
				KN/m²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	3,623	0,276	6,76	Kg/m²	272	180	125	89	65	317	225	165	124	95
				KN/m²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	4,504	0,222	7,56	Kg/m²	290	235	180	110	90	310	255	190	135	100
				KN/m²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98

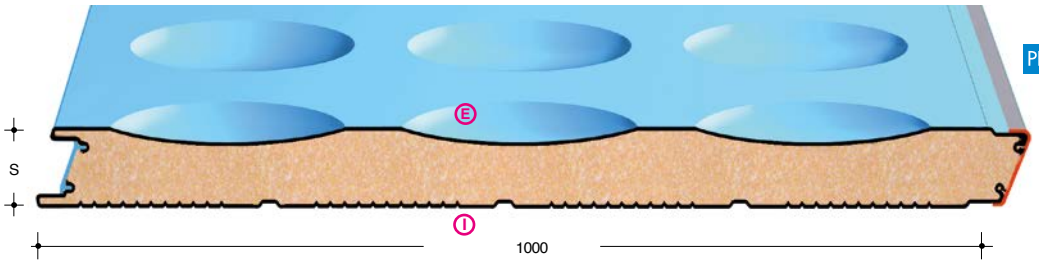
LOAD CONDITIONS WITH ALUMINIUM SUPPORTS:
The values shown in the tables are indicative and referred to a deflection f≤1/200 of the span ℓ (m) for panels with thickness of **ALUMINIUM** supports 0,6+0,6 mm.
For sizing and checking refer to the enclosed E of the UNI EN 14509 Norm and to the values shown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

TERMOPARETI®
RUGBY



TYPE
WP/ST
RUGBY

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



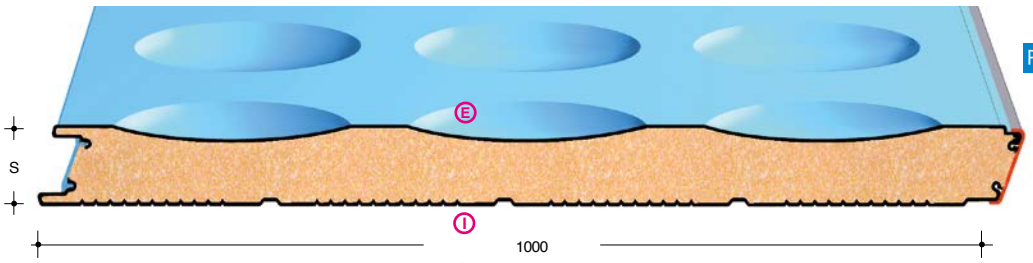
Longitudinal pitch of ellipses: mm 169

OPTION
PIR B-s2,d 0

EI 30
thickness 100 mm only

TYPE
WPM/C-FN
RUGBY

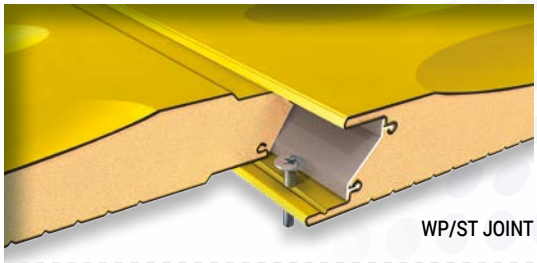
S
Thickness mm.
40-50
60-80-100



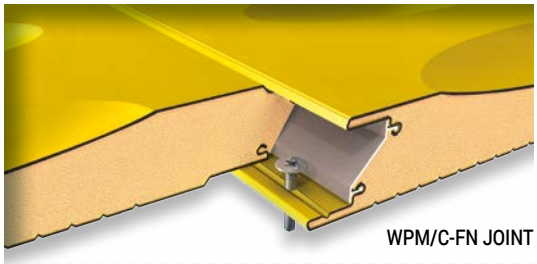
Longitudinal pitch of ellipses: mm 169

OPTION
PIR B-s2,d 0

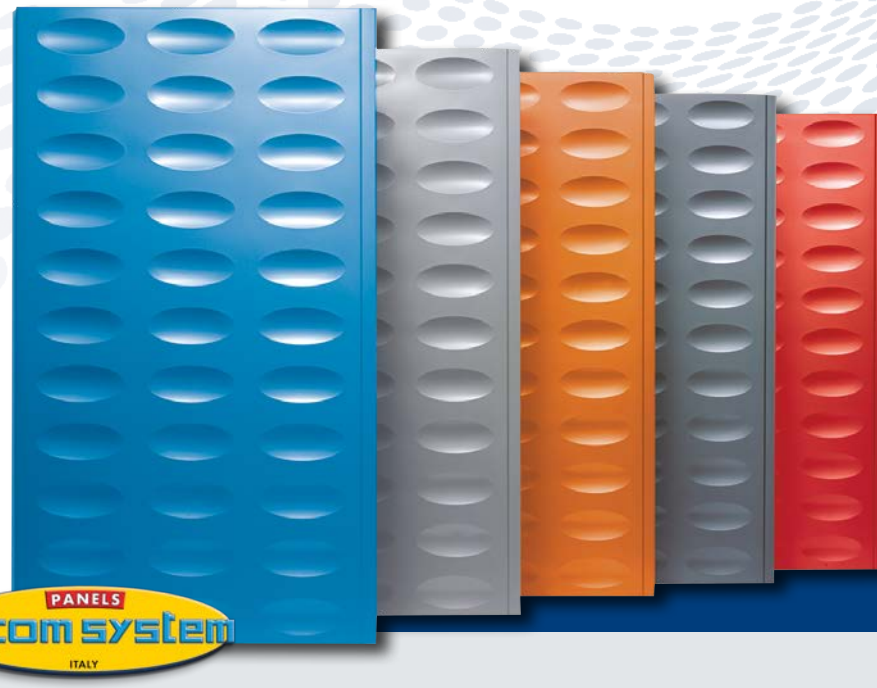
EI 30
thickness 100 mm only



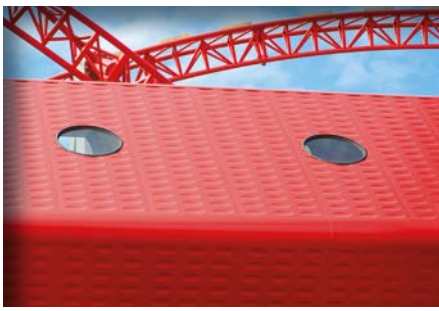
WP/ST JOINT



WPM/C-FN JOINT



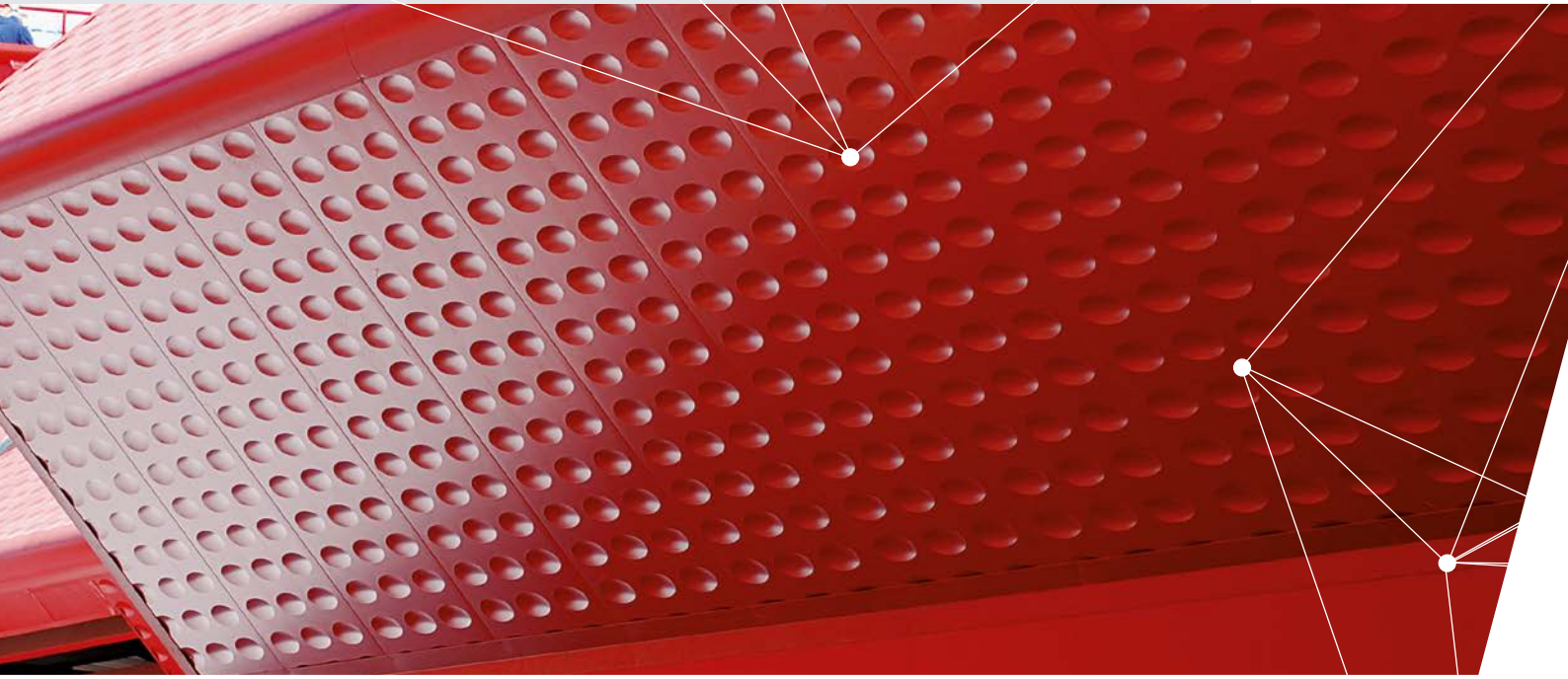
PANELS
elcom system
ITALY

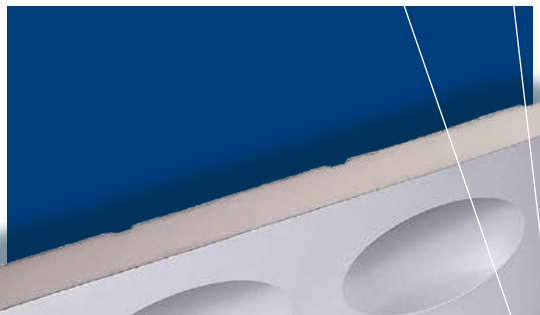


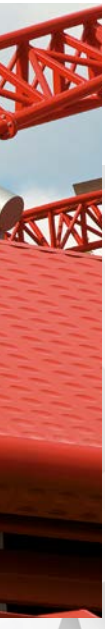
An innovative design for particular architectural impressions

PANELS elcom system ITALY

TERMOPARETI®
RUGBY







PANELS
elcom system
ITALY

TERMOPARETI® CAOS

® registered trade name

TERMOPARETI® CAOS

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 minimum yielding limit 150 MPa
COPPER - UNI EN 1172
COR-TEN
STAINLESS STEEL - according UNI EN 10088-1 Norm
Insulation: PUR or PIR density ~ 40 Kg/m³
Thickness: mm. 40-50-60-80-100
Standard panel: Width mm. 1000

The panels **TERMOPARETI® CAOS (patented)** have been studied to create original architectural impressions and can be used in industrial, commercial, residential building and public utilities, for new buildings and renovations. The **CAOS** panel can be used for continuous and/or discontinuous external walls, internal partitions and ceilings. Thanks to its characteristics, it can be widely employed where a high aesthatic standard is required and architects, designers and end users have freedom of choice in a wide range of materials and colours. The **CAOS** panels can be used on any type of structure such as metallic, concrete and wood, and their installation can be vertical, horizontal or inclined and they are fixed with specific accessories.
The peculiarity of the **CAOS** panels is on the external side: particular and different geometric shapes obtained from an innovative and unique system specifically developed by ELCOM SYSTEM S.p.A. to form the external surface, reaching an extremely dynamic effect never seen before on the market of metallic insulated panels.The imprints are positive respective the external side of the support and they can be realised on different materials such as galvanized and/or prepainted steel, aluminium, stainless steel and copper. Elements with thermic cut such as rounded and right corners, edges and spherical connections are used to complete and improve more and more the **TERMOPARETI® CAOS**.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ					SPAN IN mℓ				
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	10,15	Kg/m²	166	125	90	70	55	178	140	108	85	70
				KN/m²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	2,309	0,433	10,53	Kg/m²	225	160	120	90	70	245	182	140	115	90
				KN/m²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	2,747	0,364	10,91	Kg/m²	289	216	142	115	85	321	237	181	141	115
				KN/m²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	3,623	0,276	11,67	Kg/m²	455	316	227	160	120	500	365	280	215	145
				KN/m²	4.46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	4,504	0,222	12,63	Kg/m²	470	345	260	200	160	510	390	285	225	180
				KN/m²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76

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 Ⓘ Ⓔ shows the required painted side.

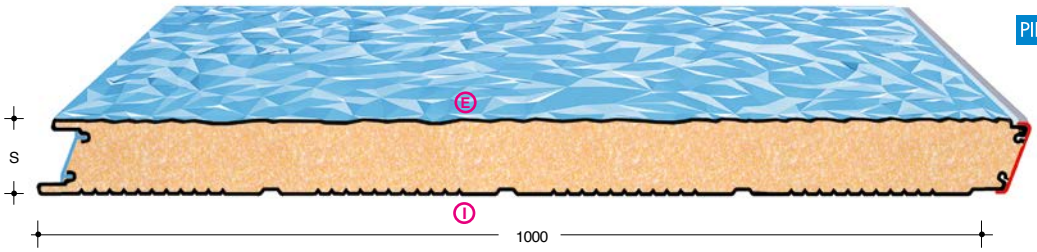
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ					SPAN IN mℓ				
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	5,16	Kg/m²	108	64	41	27	19	149	95	64	44	32
				KN/m²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	2,309	0,433	5,56	Kg/m²	150	92	60	41	29	194	129	89	63	46
				KN/m²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	2,747	0,364	5,96	Kg/m²	191	121	81	56	40	237	162	114	83	62
				KN/m²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	3,623	0,276	6,76	Kg/m²	272	180	125	89	65	317	225	165	124	95
				KN/m²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	4,504	0,222	7,56	Kg/m²	290	235	180	110	90	310	255	190	135	100
				KN/m²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98

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 Ⓘ Ⓔ shows the required painted side.

TYPE

WPM/C-FN CAOS

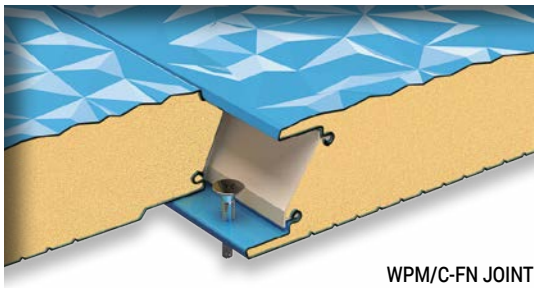
S
Thickness mm.
40-50
60-80-100



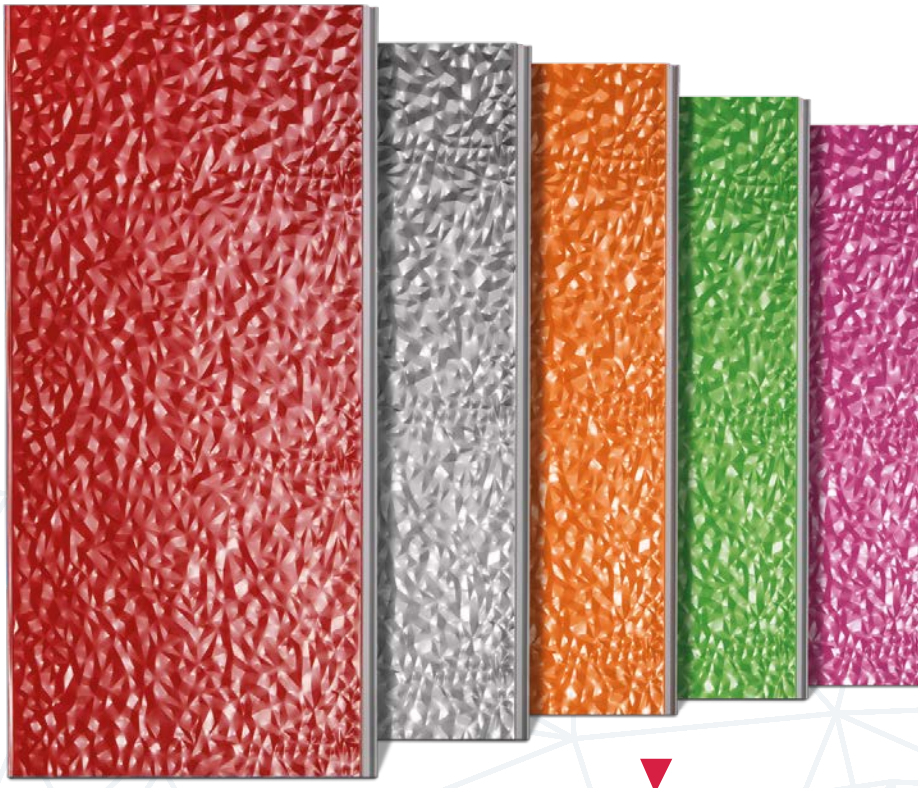
OPTION

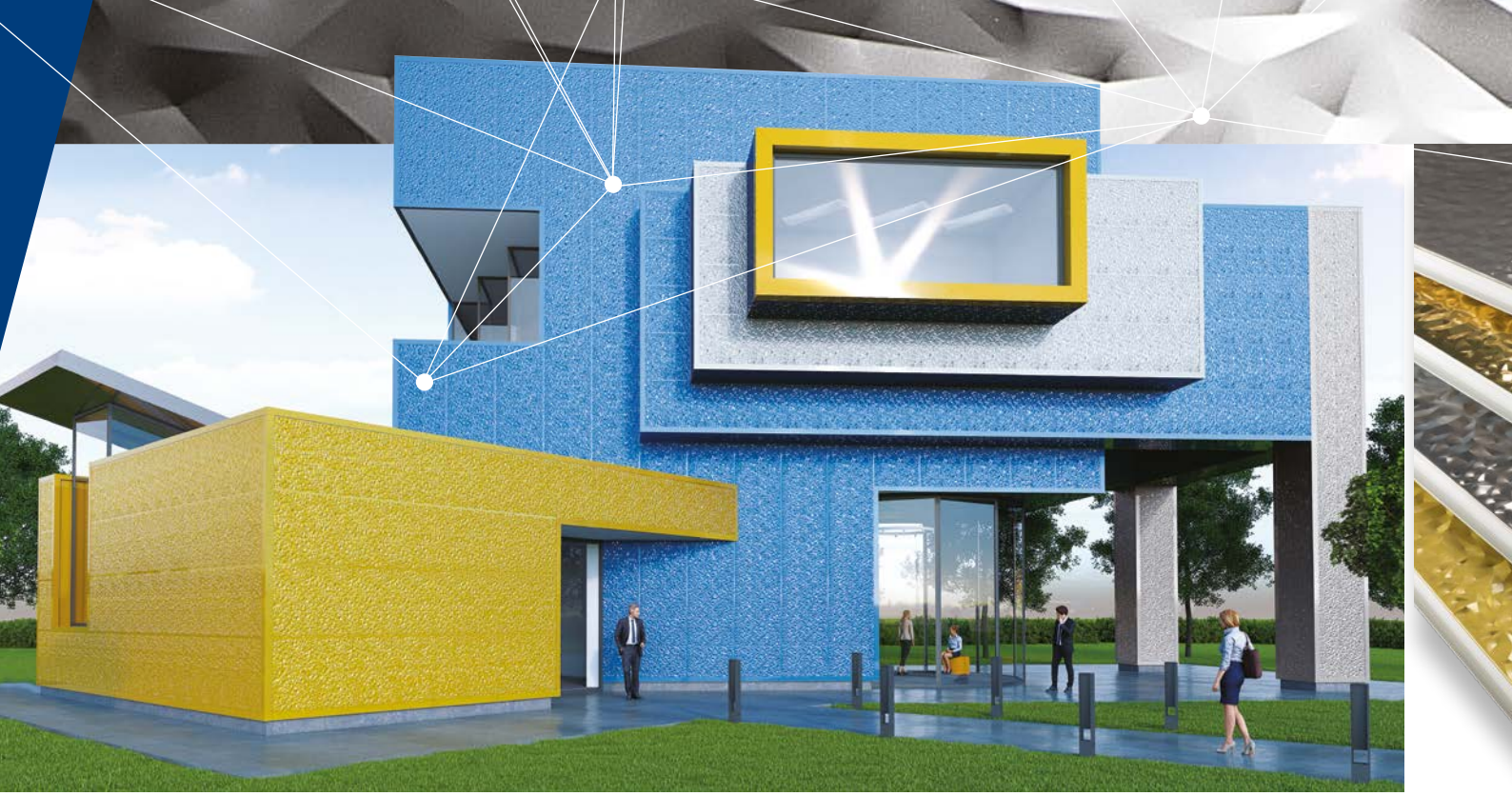
PIR B-s2,d 0

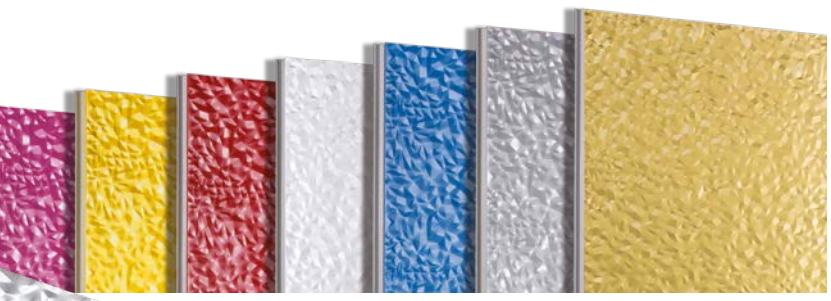
EI 30
thickness 100 mm only

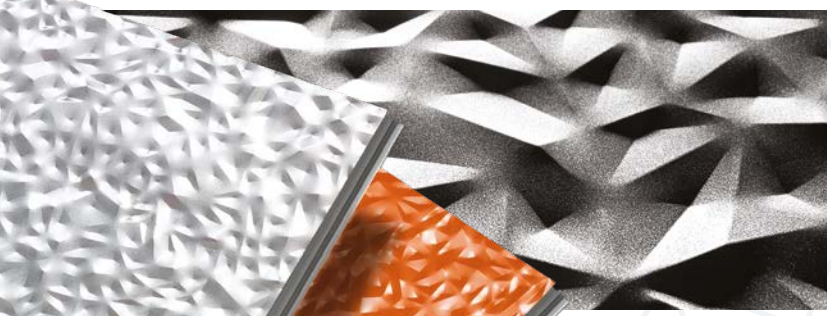


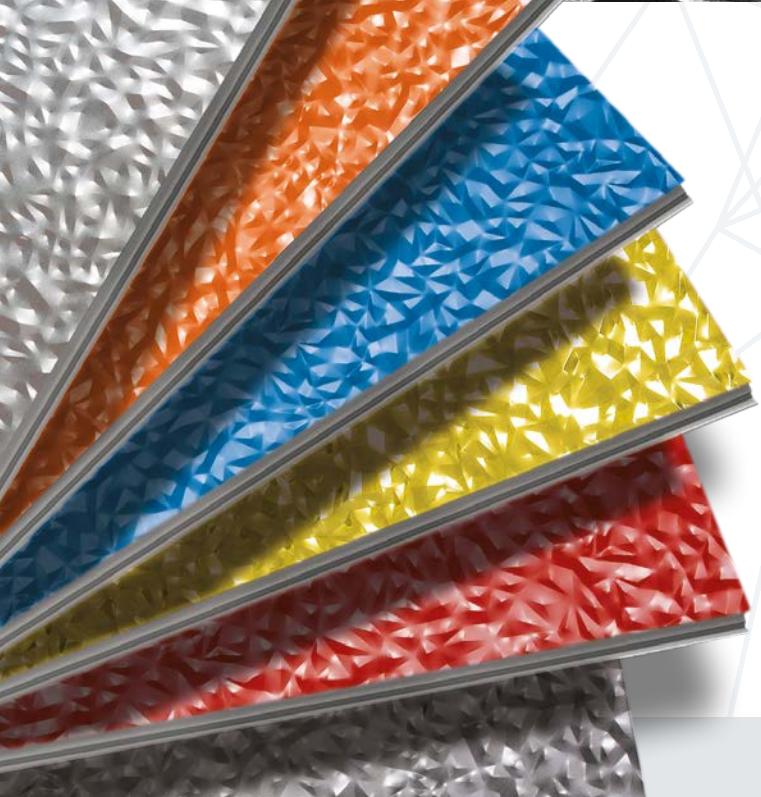
WPM/C-FN JOINT



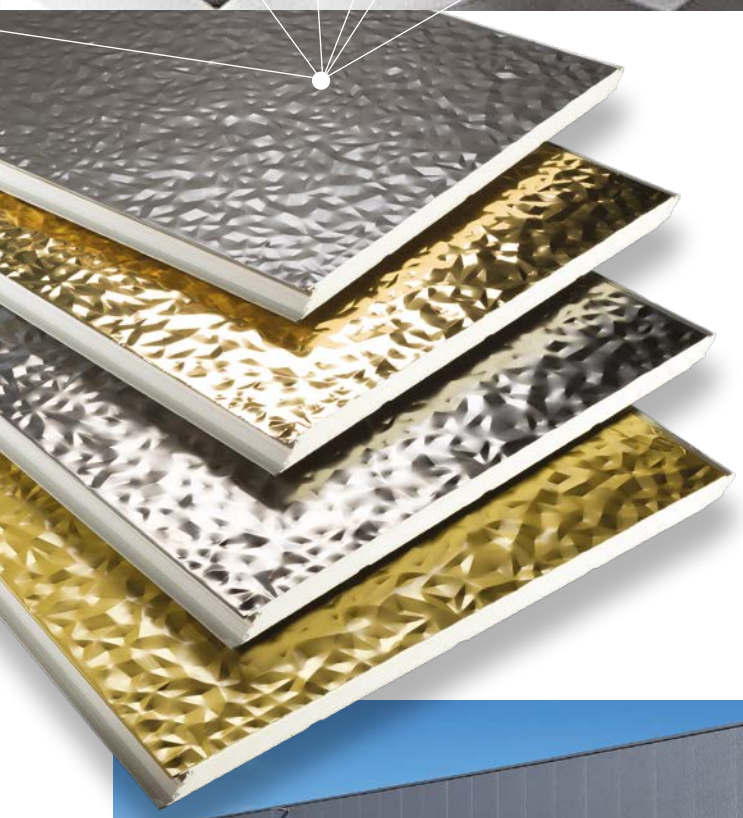


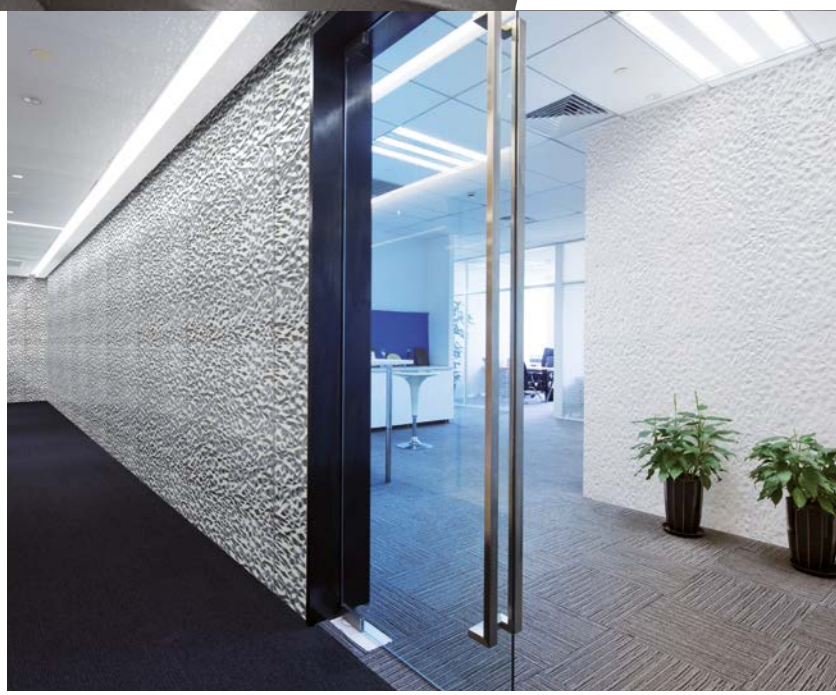


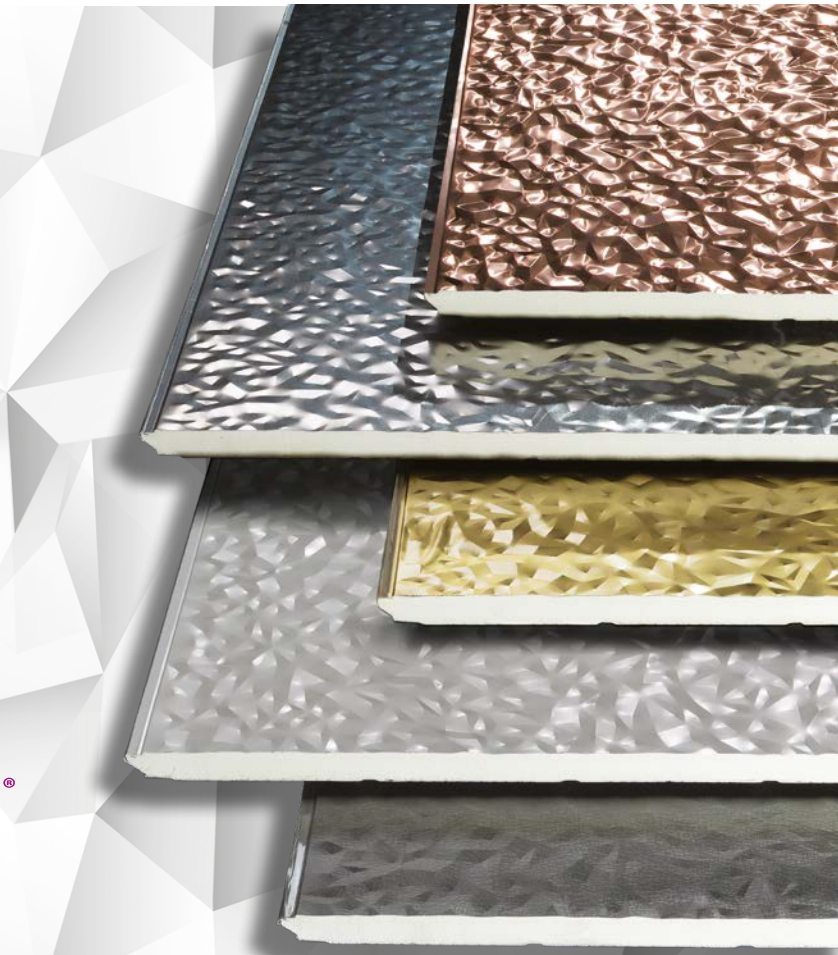




Out of the schemes, new interpretation of space... rising CAOS







TERMOPARETI®
CAOS
A new frontier of material

PANELS
elcom system
ITALY

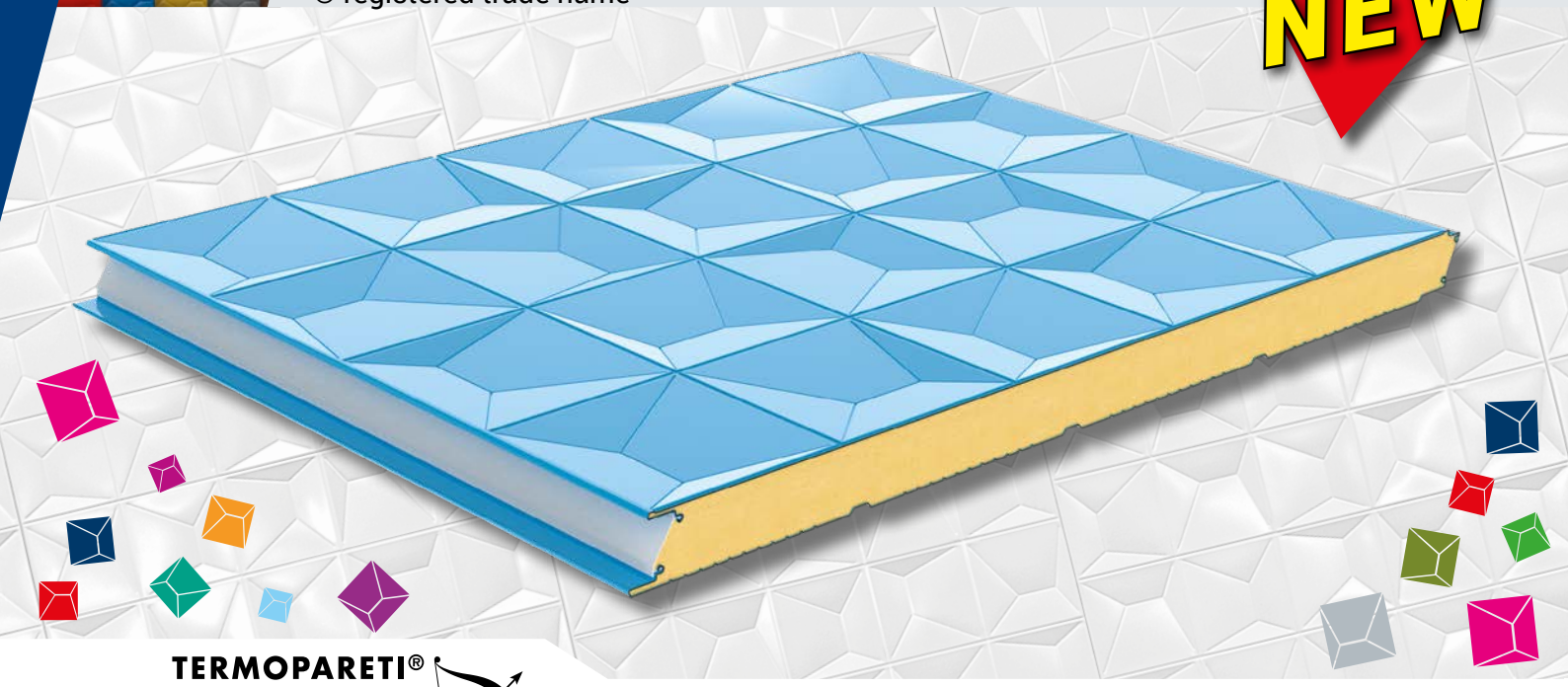
TERMOPARETI ®

® registered trade name

TERMOPARETI® EPICO

® registered trade name

NEW



TERMOPARETI®

EPICO

The 3D Architectural Panel

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 minimum yielding limit 150 MPa
COPPER - UNI EN 1172
COR-TEN
STAINLESS STEEL - according UNI EN 10088-1 Norm
Insulation: PUR or PIR density ~ 40 Kg/m³
Thickness: mm. 40-50-60-80-100
Standard panel: Width mm. 1000

The panels **TERMOPARETI® EPICO** (patented) have been studied to be used in industrial, commercial, residential building and public utilities, where special architectural effects are required. It's strong visual impact is enhanced thanks to shape and colour that create an envelope in continuous motion. **EPICO** applies to any project, for new buildings and renovations, and is able to turn an anonymous building into a work of art that captures attention and evokes emotions. The **EPICO** panel can be used for continuous and/or discontinuous external walls, internal partitions, interior settings and ceilings. Thanks to its characteristics, it can be widely employed where a high aesthatic standard is required and architects, designers and end users have freedom of choice in a wide range of materials and colours. The **EPICO** panels can be used on any type of structure such as metallic, concrete and wood, and their installation can be vertical, horizontal or inclined and they are fixed with specific accessories.
The main feature of the **TERMOPARETI® EPICO**, is the special pressing on the external side: particular and different geometric shapes across the surface are obtained through an innovative and unique system specifically developed by **ELCOM SYSTEM S.p.A.** reaching thus an extremely dynamic effect never seen before on the market of metallic insulated panels.The imprints are negative respective the external side of the support and can be realised on all materials normally used for profiling such as prepainted steel, aluminium, stainless steel and copper. Finishing elements with thermic cut such as rounded and right corners, edges and spherical connections enhance the **TERMOPARETI® EPICO**.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ					SPAN IN mℓ				
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	10,15	Kg/m²	166	125	90	70	55	178	140	108	85	70
				KN/m²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	2,309	0,433	10,53	Kg/m²	225	160	120	90	70	245	182	140	115	90
				KN/m²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	2,747	0,364	10,91	Kg/m²	289	216	142	115	85	321	237	181	141	115
				KN/m²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	3,623	0,276	11,67	Kg/m²	455	316	227	160	120	500	365	280	215	145
				KN/m²	4.46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	4,504	0,222	12,63	Kg/m²	470	345	260	200	160	510	390	285	225	180
				KN/m²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76

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 Ⓘ Ⓔ shows the required painted side.

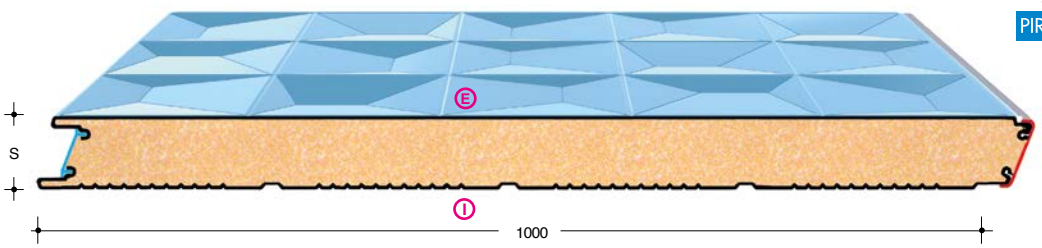
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ					SPAN IN mℓ				
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	5,16	Kg/m²	108	64	41	27	19	149	95	64	44	32
				KN/m²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	2,309	0,433	5,56	Kg/m²	150	92	60	41	29	194	129	89	63	46
				KN/m²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	2,747	0,364	5,96	Kg/m²	191	121	81	56	40	237	162	114	83	62
				KN/m²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	3,623	0,276	6,76	Kg/m²	272	180	125	89	65	317	225	165	124	95
				KN/m²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	4,504	0,222	7,56	Kg/m²	290	235	180	110	90	310	255	190	135	100
				KN/m²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98

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 Ⓘ Ⓔ shows the required painted side.

PANELS elcom system ITALY

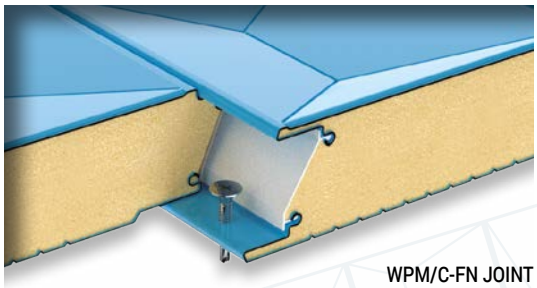
TYPE
WPM/C-FN
EPICO

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

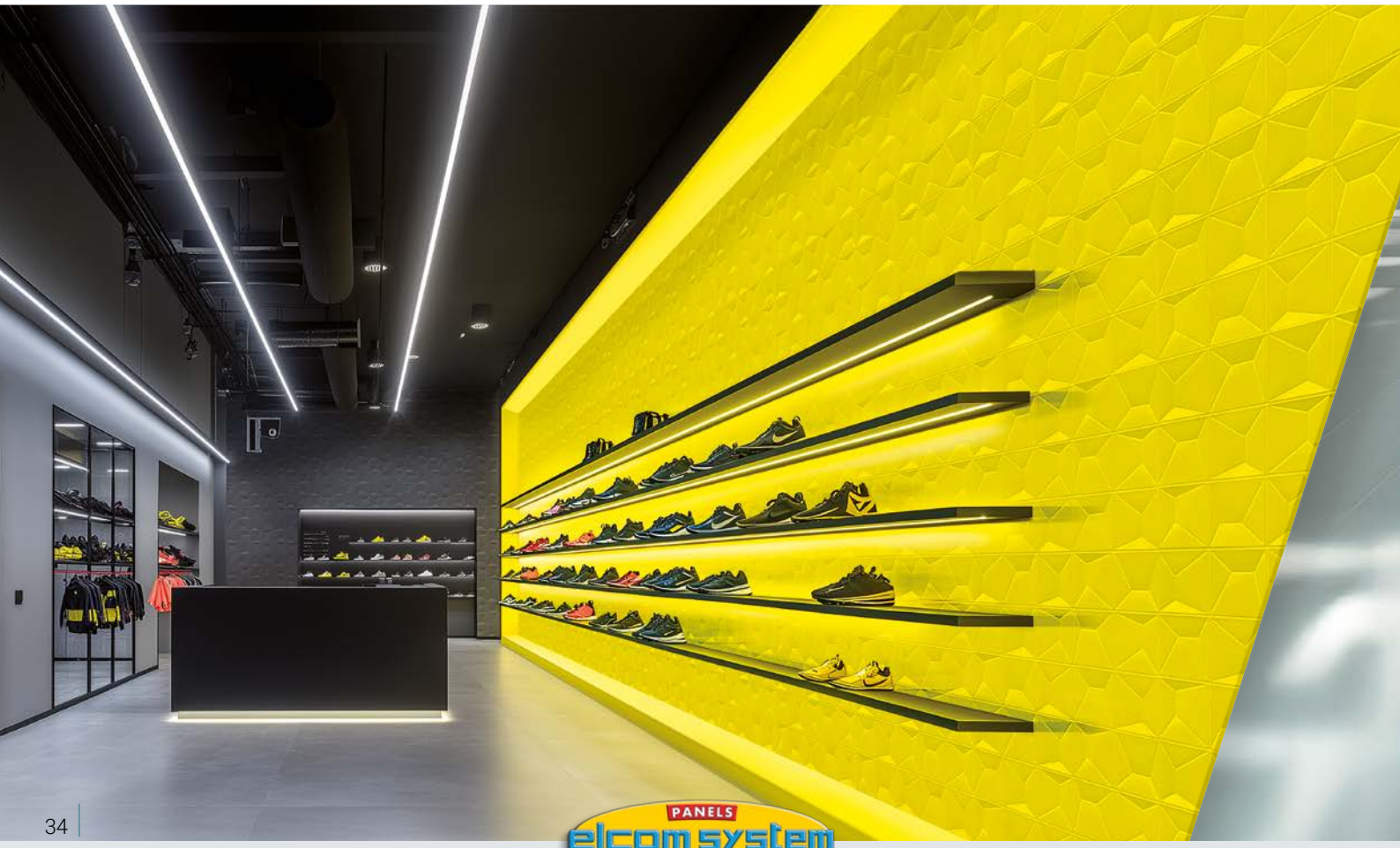


OPTION
PIR B-s2,d 0

EI 30
thickness 100 mm only



WPM/C-FN JOINT



PANELS elcom system ITALY

NEW

TERMOPARETI®
EPICO
The 3D Architectural Panel

THE
3D ARCHITECTURAL
PANEL THAT TAKES
SHAPE AND REFLECTS
LIGHT, CREATING NEW
THREE-DIMENSIONAL
TEXTURES

OUT OF THE SCHEMES, NEW INTERPRETATION OF SPACE

EPICO IS...

EVERLASTING
POWERFUL
INNOVATIVE
CREATIVE
ORIGINAL

PANELS elcom system ITALY

TERMOPARETI®

EPICO

The 3D Architectural Panel

the 3D Architectural Panel

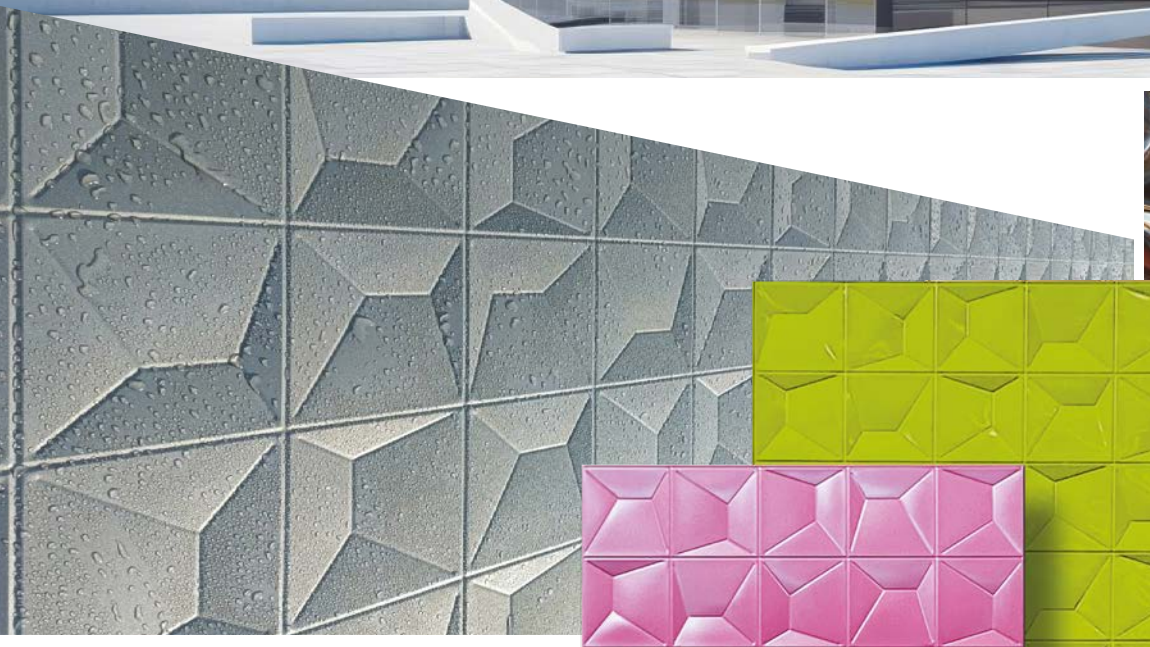
PANELS

elcom system

ITALY

IT ENHANCES
THE THREE-DIMENSIONALITY,
MOVING SPACE, AND CHANGING
WITH LIGHT AND DISTANCE

TERMOPARETI®
EPICO
The 3D Architectural Panel

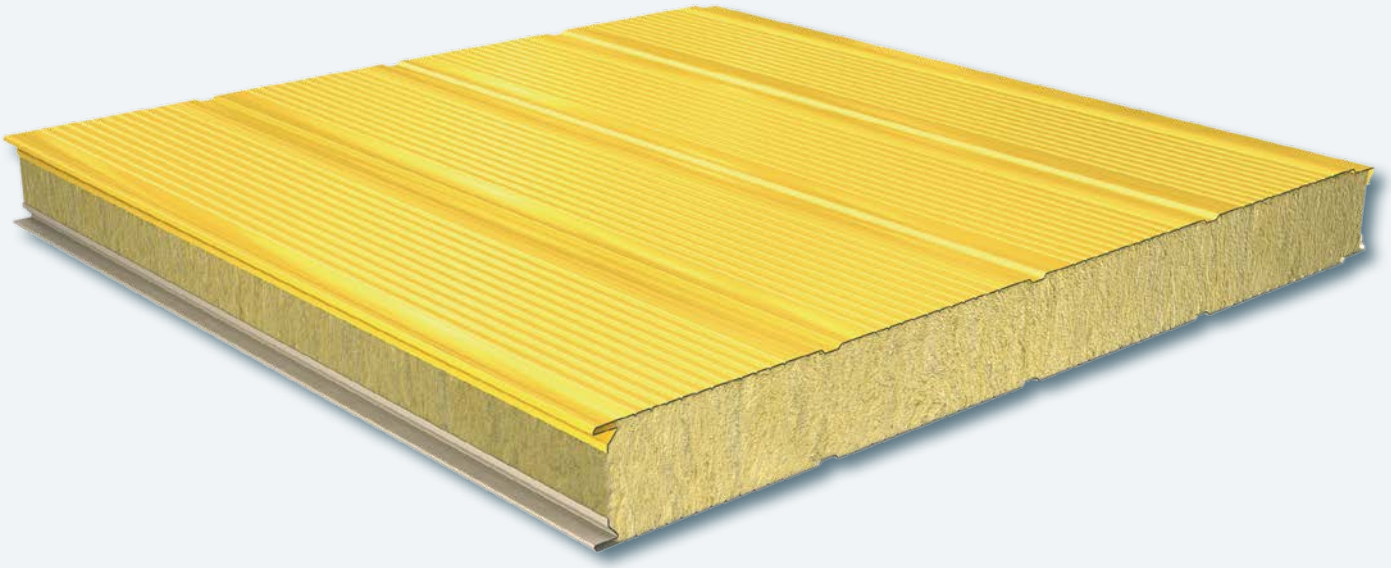



NEW


LO ABBIAMO
FATTO
EPICO
PANELS
elcom system
ITALY

TERMOPARETI® AEFFE ATHOS

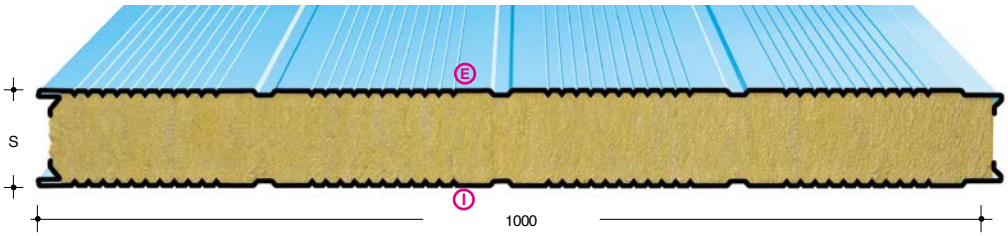
® registered trade name



AEFFE ATHOS

TYPE
ATHOS

S
Thickness mm.
50-60
80-100-120



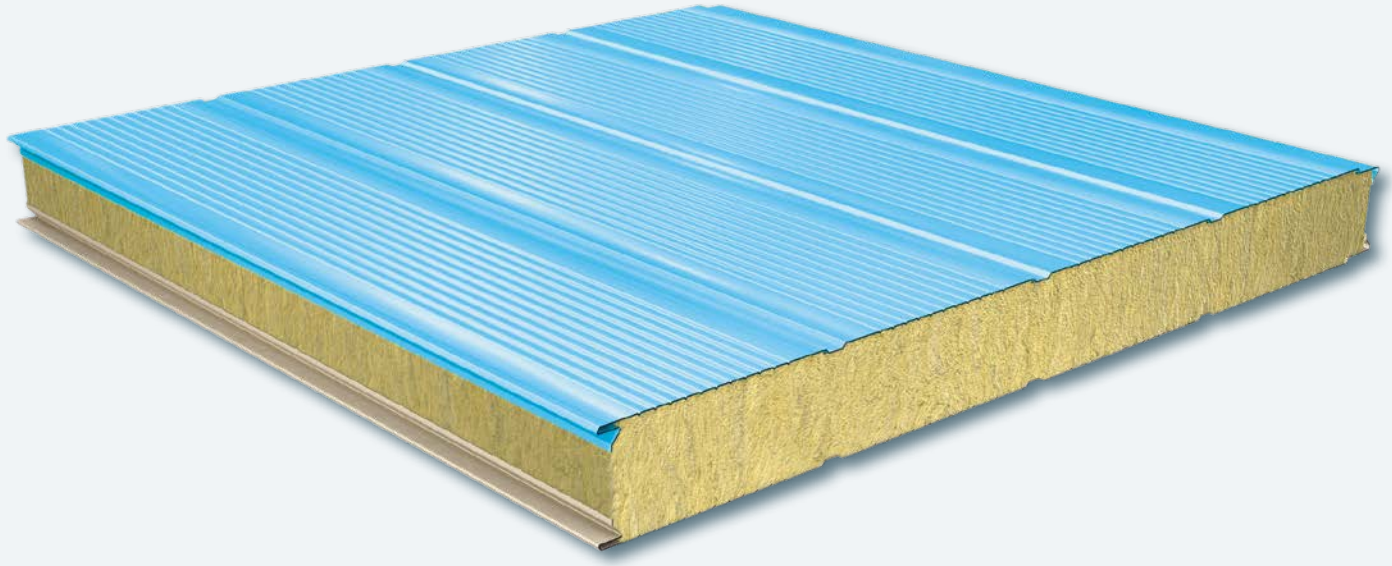
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²											
S	R	U	weight		SPAN IN mℓ											
thickness mm	$\frac{m^2 K}{W}$	$\frac{W}{m^2 K}$	Kg/m²		1,50	2,00	2,50	3,00	3,50	4,00	1,50	2,00	2,50	3,00	3,50	4,00
50	1,333	0,75	14,00	Kg/m²	145	117	95	73	60	49	130	103	82	62	52	45
				KN/m²	1,42	1,15	0,93	0,72	0,59	0,48	1,28	1,01	0,80	0,61	0,51	0,44
60	1,562	0,64	14,90	Kg/m²	182	146	117	95	73	60	168	133	104	84	65	57
				KN/m²	1,79	1,43	1,15	0,93	0,72	0,59	1,65	1,30	1,02	0,82	0,64	0,56
80	2,041	0,49	16,70	Kg/m²	230	183	152	125	100	82	216	170	139	114	93	77
				KN/m²	2,26	1,80	1,49	1,23	0,98	0,80	2,12	1,67	1,36	1,12	0,91	0,76
100	2,500	0,40	18,50	Kg/m²	310	253	207	165	134	104	296	240	194	154	125	100
				KN/m²	3,04	2,48	2,03	1,62	1,32	1,02	2,90	2,35	1,90	1,51	1,23	0,98
120	2,857	0,35	20,40	Kg/m²	340	280	215	180	150	110	325	265	195	167	137	106
				KN/m²	3,33	2,74	2,11	1,76	1,47	1,08	3,19	2,60	1,91	1,64	1,34	1,04

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+0,6 mm. The letter Ⓘ Ⓔ shows the required painted side.
Average density of rockwool: 100 Kg/m³ - minimum guaranteed values obtained from tests carried out by the **University of Studies of Perugia**, Faculty of Engineering, Industrial Engineering Department (experimental tests institute).

The product. The panels AEFFE, type ATHOS are obtained by sticking in continuous two metallic supports with a rock wool layer. Their use is necessary when a high soundproofing and a good heat insulation, together with incombustibility and a high fire resistance, are requested.
External Supports. They are generally obtained from hot-dip galvanized steel coils S 250GD according to UNI EN 10346 norms and/or with an organic coating having characteristics according to UNI EN 10169 cold profiling.
On request can also be fournished stainless steel supports according to EN 10088-1 norms or in aluminium according to UNI EN 1396 norm.
Insulation. The core consists of an orientated rock wool layer (100 kg/m³) positioned perpendicularly to the supports. This gives a higher stability to the panel and improves its mechanical performances. Thermal conductivity coefficient of rock wool: λ= 0,041 ÷ 0,045 W/ mK.
The use of orientated rock wool gives to the panel excellent characteristics of acoustic insulation on a wide frequency spectrum, in particular if a microdrilled support is placed towards the source of the noise.
Mechanical performances. The values indicated in the tables have been calculated according to CNR 10022/87 and ECCS instructions and are supported by several tests about uniformly distributed loads carried out by the Faculty of Engineering of the University of Perugia, Industrial Engineering Department (Experimental Tests Institute).


RAPPORTO DI CLASSIFICAZION
IN ACCORDO ALLA UNI EN 13501-2

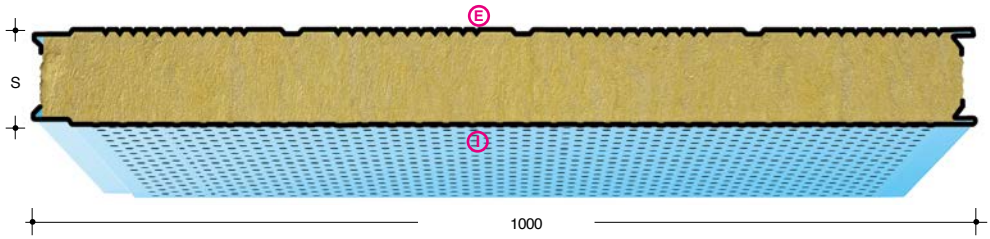
® registered trade name



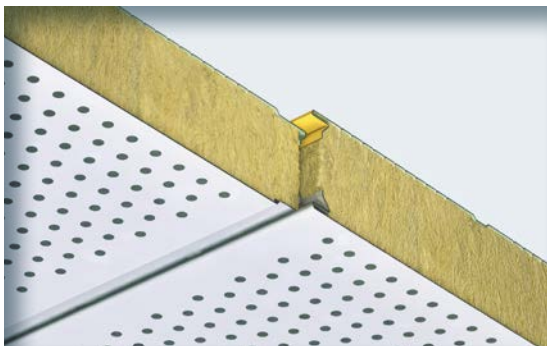
AEFFE ATHOS TERMOFONISOL

TYPE
ATHOS
TERMOFONISOL

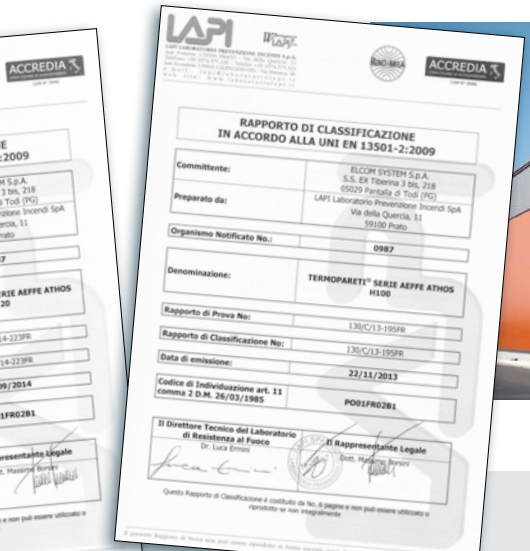
S
Thickness mm.
50-60
80-100-120



THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² SPAN IN mℓ			
S thickness mm	R m² K / W	U W / m² K	weight Kg/m²		1,50	2,00	2,50	3,00
50	1,333	0,75	12,10	Kg/m²	90	63	38	22
				KN/m²	0,88	0,62	0,37	0,22
60	1,562	0,64	13,00	Kg/m²	113	78	47	28
				KN/m²	1,11	0,76	0,46	0,27
80	2,041	0,49	14,80	Kg/m²	143	99	61	38
				KN/m²	1,40	0,97	0,60	0,37
100	2,500	0,40	16,60	Kg/m²	160	115	75	48
				KN/m²	1,57	1,13	0,74	0,47
120	2,857	0,35	18,50	Kg/m²	175	130	90	60
				KN/m²	1,72	1,27	0,88	0,59



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+0,6 mm. The letter Ⓘ Ⓔ shows the required painted side.
Average density of rockwool: 100 Kg/m³ - minimum guaranteed values obtained from tests carried out by the **University of Studies of Perugia**, Faculty of Engineering, Industrial Engineering Department (experimental tests institute).


RAPPORTO DI CLASSIFICAZIONE
IN ACCORDO ALLA UNI EN 13501-2:2009


926
VIOLA PA


JYSK


RK


JUMBO

PANELS
elcom system
ITALY

TERMOCOPERTURE®

® registered trade name

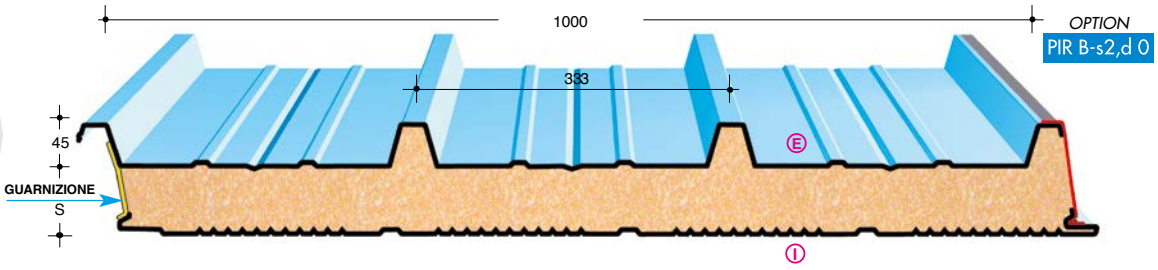
PANELS
elcom system
ITALY

TERMOCOPERTURE®

® registered trade name

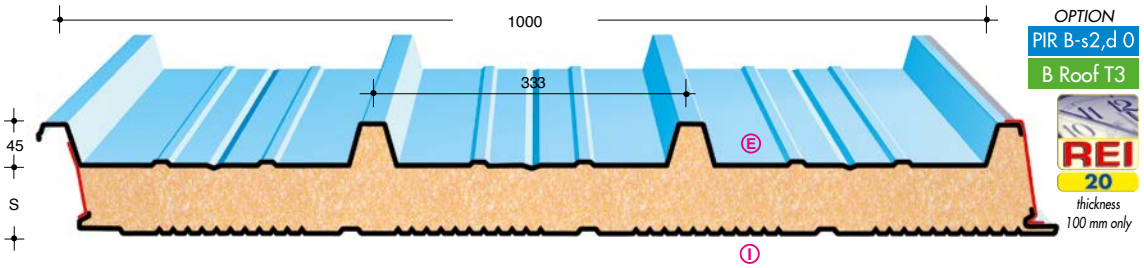
TYPE
TCP/C

S
Thickness mm.
30-40-50
60-80-100-120



TYPE
RP/ST 4G

S
Thickness mm.
30-40-50
60-80-100-120



TCP/C RP/ST 4G

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²				
					SINGLE SPAN IN mℓ				
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	7,93	Kg/m² KN/m²	211 2,08	121 1,19	75 0,74	48 0,47	32 0,31
40	1,866	0,536	8,31	Kg/m² KN/m²	257 2,53	154 1,51	98 0,97	65 0,65	45 0,44
50	2,309	0,433	8,68	Kg/m² KN/m²	305 3,00	189 1,85	124 1,22	85 0,84	60 0,59
60	2,747	0,364	9,06	Kg/m² KN/m²	355 3,49	225 2,21	152 1,49	106 1,04	76 0,75
80	3,623	0,276	9,82	Kg/m² KN/m²	457 4,49	302 2,96	210 2,07	152 1,49	112 1,10
100	4,504	0,222	10,57	Kg/m² KN/m²	562 5,52	382 3,75	273 2,68	201 1,98	151 1,49
120	5,376	0,186	11,33	Kg/m² KN/m²	669 6,56	463 4,55	337 3,31	253 2,49	194 1,90

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 0,4+0,4 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 Ⓘ Ⓔ shows the required painted side.

TCP/C RP/ST 4G

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²				
					SINGLE SPAN IN mℓ				
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	10,76	Kg/m² KN/m²	278 2,73	160 1,58	99 0,98	65 0,64	43 0,42
40	1,866	0,536	11,13	Kg/m² KN/m²	333 3,27	200 1,96	129 1,27	87 0,86	60 0,59
50	2,309	0,433	11,51	Kg/m² KN/m²	390 3,83	242 2,38	161 1,58	111 1,09	79 0,78
60	2,747	0,364	11,89	Kg/m² KN/m²	448 4,40	285 2,80	194 1,91	137 1,35	99 0,98
80	3,623	0,276	12,64	Kg/m² KN/m²	567 5,57	376 3,69	265 2,60	193 1,90	144 1,42
100	4,504	0,222	13,40	Kg/m² KN/m²	688 6,76	469 4,61	339 3,33	253 2,49	193 1,90
120	5,376	0,186	14,15	Kg/m² KN/m²	811 7,96	565 5,54	415 4,08	315 3,09	244 2,40

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 Ⓘ Ⓔ shows the required painted side.

ALUMINIUM

THERMIC INSULATION					SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²										
S	R	U	weight	U.M.	SPAN IN mℓ										
thickness mm	$\frac{m^2 K}{W}$	$\frac{W}{m^2 K}$	Kg/m²		1,50	2,00	2,50	3,00	3,50	weight Kg/m²	1,50	2,00	2,50	3,00	3,50
30	1,435	0,697	7,5	Kg/m² KN/m²	285 2,81	185 1,81	120 1,18	70 0,69	40 0,39	5,0	265 2,60	165 1,62	101 1,00	58 0,57	30 0,30
40	1,866	0,536	7,9	Kg/m² KN/m²	355 3,50	230 2,25	160 1,57	96 0,94	60 0,59	5,4	315 3,10	203 2,00	132 1,30	76 0,75	48 0,48
50	2,309	0,433	8,3	Kg/m² KN/m²	417 4,10	278 2,72	197 1,93	125 1,22	80 0,78	5,8	365 3,60	244 2,40	168 1,65	101 1,00	63 0,62
60	2,747	0,364	8,7	Kg/m² KN/m²	468 4,60	325 3,18	237 2,32	157 1,54	104 1,02	6,2	428 4,20	285 2,80	203 2,00	127 1,25	83 0,82
80	3,623	0,276	9,5	Kg/m² KN/m²	509 5,00	430 4,21	315 3,09	225 2,20	155 1,52	7,0	489 4,80	387 3,80	275 2,70	183 1,80	117 1,15
100	4,504	0,222	10,3	Kg/m² KN/m²	565 5,53	452 4,43	342 3,35	286 2,80	215 2,11	7,8	540 5,29	431 4,23	316 3,01	262 2,57	195 1,91
120	5,376	0,186	11,0	Kg/m² KN/m²	635 6,23	525 5,15	415 4,02	330 3,24	260 2,55	8,6	612 6,01	510 5,01	398 3,90	306 3,03	238 2,33
LOAD CONDITIONS:					WITH Ⓔ ALUMINIUM SUPPORT 0,6 mm Ⓘ STEEL 0,5 mm						WITH Ⓔ ALUMINIUM SUPPORT 0,6 mm Ⓘ ALUMINIUM 0,6 mm				

The values shown in the tables are indicative and referred to a deflection f≤1/200 of the span ℓ (m). 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 Ⓘ Ⓔ shows the required painted side.

TERMOCOPERTURE® ZOOTEC

® registered trade name

Internal support in P.R.F.V. (fibreglass) opaline white for facilities with biological exhalations, resistant to bacteriums, urea and ammonia

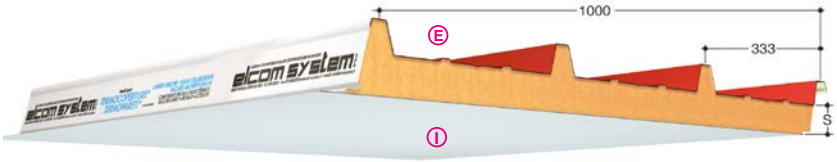
ZOOTEC

Technical characteristics:

External metallic supports: they are obtained from cold profiling of coils of different materials: **carbon steel** coated with hot dip zinc; **aluminium**; **copper**; **stainless steel**. The finishing of steel and aluminium supports consists of an organic coat obtained from a cycle of hot standard polyester prepainting. On request different coats as PVC alimentary or PVDF can be fournished.
Internal support: fibreglass sheet (polyester resins reinforced with fibreglass opaline white)
Insulation: expanded polyurethane (PUR), CFC free.
Main characteristics:
- compressive strength: 140-150 Kpa
- impermeability: 98% closed cells (non hygroscopic material)
Permissible Loads: the values shown in the tables have been calculated according to the ECCS and AIPPEG recommendations and supported by experimental tests

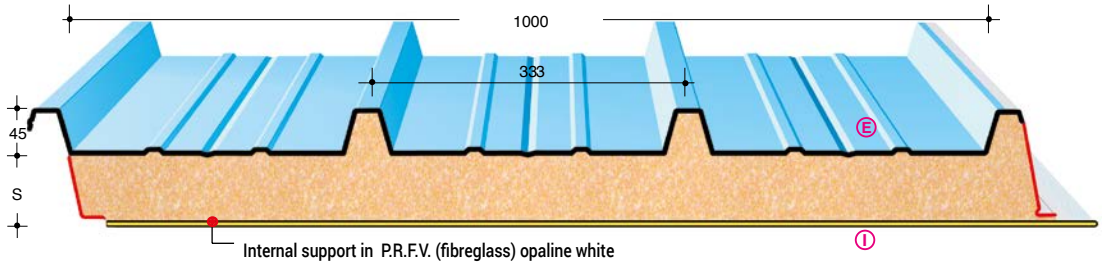
THE IDEAL PANELS FOR ANIMAL HUSBANDRY

THERMAL with high insulating capacity and special polyurethane foams
LONG-LASTING time leaves no sign
RESISTANT in facilities with biological exhalations, (bacteriums, urea and ammonia).
LIGHTWEIGHT with only 8,00 kg/m²
VERSATILE suitable for any type of new or existing structure



TYPE
ZOOTEC

S
Thickness mm.
30-40-50
60-80-100-120



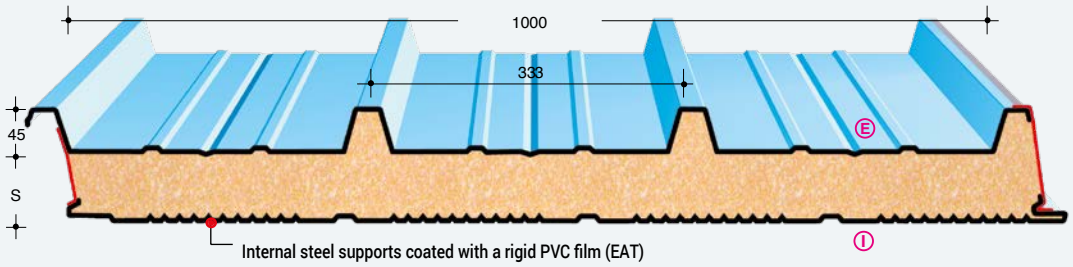
THERMIC INSULATION			STEEL thickness mm	U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² — SPAN IN mℓ													
S thickness mm	R m²K/W	U W/m²K			1,00	1,50	2,00	2,50	3,00	3,50	4,00	1,00	1,50	2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	0,5	Kg/m²	431	187	101	62	-	-	-	510	222	121	75	49	-	-
				KN/m²	4,23	1,83	0,99	0,61	-	-	-	5,00	2,17	1,18	0,73	0,45	-	-
40	1,866	0,536	0,6	Kg/m²	526	229	125	76	41	-	-	620	270	148	91	61	42	-
				KN/m²	5,16	2,25	1,23	0,75	0,40	-	-	6,08	2,64	1,45	0,89	0,59	0,41	-
50	2,309	0,433	0,8	Kg/m²	702	306	167	103	56	-	-	843	368	202	125	84	58	42
				KN/m²	6,89	3,00	1,64	1,01	0,55	-	-	8,26	3,61	1,98	1,22	0,82	0,56	0,41
60	2,747	0,364	1,0	Kg/m²	878	383	210	129	71	40	-	1067	467	257	160	107	75	54
				KN/m²	8,61	3,76	2,06	1,27	0,70	0,39	-	10,46	4,58	2,52	1,57	1,05	0,74	0,53
80	3,623	0,276																
100	4,504	0,222																
120	5,376	0,186																

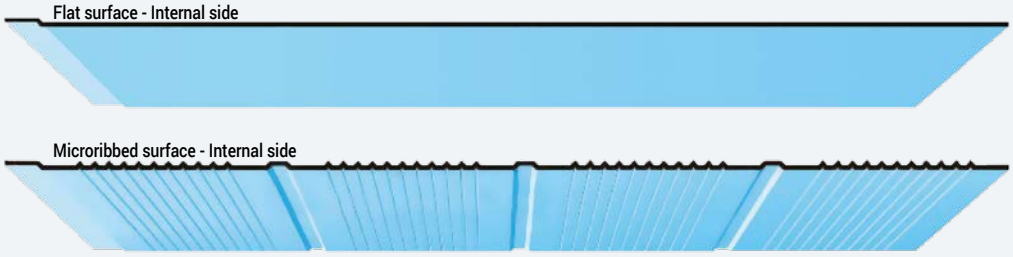
LOAD CONDITIONS:
The values shown in the tables are referred to a deflection f≤1/200 of the span ℓ (m). The letter Ⓔ shows the required painted side.

TERMOCOPERTURE® ZOOTEC EAT

® registered trade name

TYPE
ZOOTEC EAT
S
Thickness mm.
30-40-50
60-80-100-120





ZOOTEC EAT

THE EVOLUTION OF PANEL TECHNOLOGY FOR ANIMAL HUSBANDRY

The panel **ZOOTEC EAT**, with an internal side cladded with a 120 micron PVC film, has been studied to offer **TERMOCOPERTURE®** able to grant high mechanical performances and an excellent resistance in facilities with aggressive biological exhalations and chemical products used for cleaning.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²				
					SINGLE SPAN IN mℓ				
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	7,93	Kg/m² KN/m²	211 2,08	121 1,19	75 0,74	48 0,47	32 0,31
40	1,866	0,536	8,31	Kg/m² KN/m²	257 2,53	154 1,51	98 0,97	65 0,65	45 0,44
50	2,309	0,433	8,68	Kg/m² KN/m²	305 3,00	189 1,85	124 1,22	85 0,84	60 0,59
60	2,747	0,364	9,06	Kg/m² KN/m²	355 3,49	225 2,21	152 1,49	106 1,04	76 0,75
80	3,623	0,276	9,82	Kg/m² KN/m²	457 4,49	302 2,96	210 2,07	152 1,49	112 1,10
100	4,504	0,222	10,57	Kg/m² KN/m²	562 5,52	382 3,75	273 2,68	201 1,98	151 1,49
120	5,376	0,186	11,33	Kg/m² KN/m²	669 6,56	463, 4,55	337 3,31	253 2,49	194 1,90

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 0,4+0,4 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 Ⓘ Ⓔ shows the required painted side.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²				
					SINGLE SPAN IN mℓ				
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	10,76	Kg/m² KN/m²	278 2,73	160 1,58	99 0,98	65 0,64	43 0,42
40	1,866	0,536	11,13	Kg/m² KN/m²	333 3,27	200 1,96	129 1,27	87 0,86	60 0,59
50	2,309	0,433	11,51	Kg/m² KN/m²	390 3,83	242 2,38	161 1,58	111 1,09	79 0,78
60	2,747	0,364	11,89	Kg/m² KN/m²	448 4,40	285 2,80	194 1,91	137 1,35	99 0,98
80	3,623	0,276	12,64	Kg/m² KN/m²	567 5,57	376 3,69	265 2,60	193 1,90	144 1,42
100	4,504	0,222	13,40	Kg/m² KN/m²	688 6,76	469 4,61	339 3,33	253 2,49	193 1,90
120	5,376	0,186	14,15	Kg/m² KN/m²	811 7,96	565 5,54	415 4,08	315 3,09	244 2,40

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 Ⓘ Ⓔ shows the required painted side.

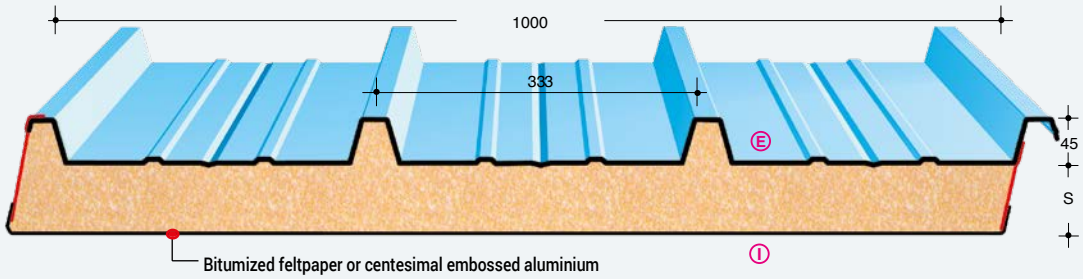
TERMOCOPERTURE® FLEX

® registered trade name

TYPE
RP/ST
FLEX-AC/CB

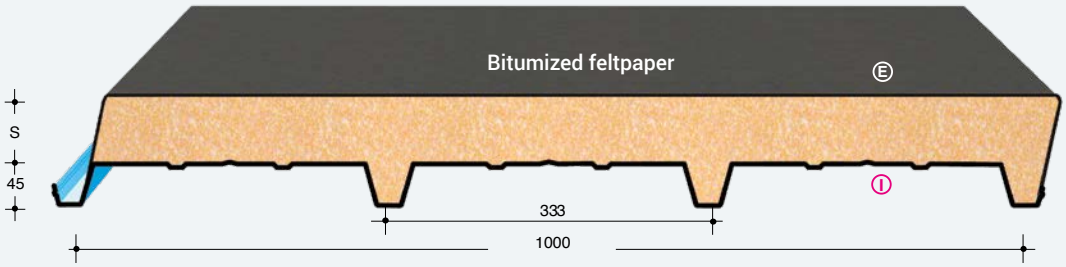
AC = Centesimal aluminium
CB = Bitumized feltpaper

S=Thickness mm.
30-40-50
60-80-100-120



TYPE
RP/ST
FLEX-DECK

S
Thickness mm.
30-40-50
60-80-100-120



FLEX

THERMIC INSULATION S thickness mm	R $\frac{m^2 K}{W}$	U $\frac{W}{m^2 K}$	STEEL thickness mm	U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² SPAN IN mℓ 1,00	1,50	2,00	2,50	3,00	3,50	4,00	1,00	1,50	2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	0,5	Kg/m²	431	187	101	62	-	-	-	510	222	121	75	49	-	-
				KN/m²	4,23	1,83	0,99	0,61	-	-	-	5,00	2,17	1,18	0,73	0,45	-	-
40	1,866	0,536	0,6	Kg/m²	526	229	125	76	41	-	-	620	270	148	91	61	42	-
				KN/m²	5,16	2,25	1,23	0,75	0,40	-	-	6,08	2,64	1,45	0,89	0,59	0,41	-
50	2,309	0,433	0,8	Kg/m²	702	306	167	103	56	-	-	843	368	202	125	84	58	42
				KN/m²	6,89	3,00	1,64	1,01	0,55	-	-	8,26	3,61	1,98	1,22	0,82	0,56	0,41
60	2,747	0,364	1,0	Kg/m²	878	383	210	129	71	40	-	1067	467	257	160	107	75	54
				KN/m²	8,61	3,76	2,06	1,27	0,70	0,39	-	10,46	4,58	2,52	1,57	1,05	0,74	0,53
80	3,623	0,276																
100	4,504	0,222																
120	5,376	0,186																

LOAD CONDITIONS (RP/ST FLEX AC/CB):
The values shown in the tables are referred to a deflection f≤1/200 of the span ℓ (m). The letter Ⓔ shows the required painted side.

THERMIC INSULATION S thickness mm	R $\frac{m^2 K}{W}$	U $\frac{W}{m^2 K}$	STEEL thickness mm	U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² SPAN IN mℓ 1,00	1,50	2,00	2,50	3,00	3,50	4,00	1,00	1,50	2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	0,5	Kg/m²	407	176	95	56	-	-	-	541	236	129	80	53	36	-
				KN/m²	3,99	1,73	0,93	0,55	-	-	-	5,31	2,31	1,26	0,78	0,52	0,35	-
40	1,866	0,536	0,6	Kg/m²	494	215	117	71	37	-	-	660	288	158	98	65	45	-
				KN/m²	4,85	2,11	1,15	0,70	0,36	-	-	6,47	2,83	1,55	0,96	0,64	0,44	-
50	2,309	0,433	0,8	Kg/m²	672	292	160	98	54	-	-	881	385	212	131	88	62	41
				KN/m²	6,59	2,86	1,57	0,96	0,53	-	-	8,64	3,78	2,08	1,28	0,86	0,61	0,40
60	2,747	0,364	1,0	Kg/m²	851	371	203	125	70	39	-	1101	482	265	165	111	78	53
				KN/m²	8,35	3,64	1,99	1,23	0,69	0,38	-	10,80	4,73	2,60	1,62	1,09	0,76	0,52
80	3,623	0,276																
100	4,504	0,222																
120	5,376	0,186																

LOAD CONDITIONS (RP/ST FLEX-DECK):
The values shown in the tables are referred to a deflection f≤1/200 of the span ℓ (m). The letter Ⓔ shows the required painted side.

TERMOCOPERTURE® SLIM

® registered trade name

SLIM

Technical characteristics:

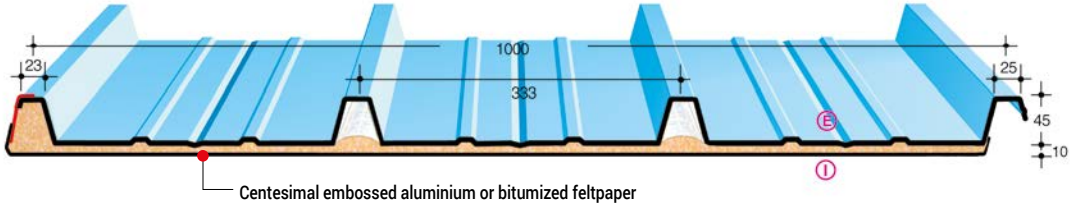
External metallic supports: they are obtained from cold profiling of coils of different materials: **carbon steel** coated with hot dip zinc; **aluminium**, **copper**, **stainless steel**. The finishing of steel and aluminium supports consists of an organic coat obtained from a cycle of hot standard polyester prepainting. On request different coatings can be fournished.
Internal supports: centesimal embossed aluminium or bitumized feltpaper
Insulation: PUR foam (the two ribs in the center are without foam).
Main characteristics:
- Density: 60 kg/m³
- Compressive strength: 140-150 Kpa
- Impermeability: 98% closed cells (non hygroscopic material)

Permissible loads: the values shown in the tables, comparable to the ones of the trapezoidal sheets, are calculated according to the ECCS and AIPPEG recommendations and confirmed by tests.

THERMAL - LONGLASTING
AVOIDS CONDENSATION PHENOMENON
REDUCES THE NOISE OF WEATHER EVENTS
LIGHTWEIGHT - VERSATILE

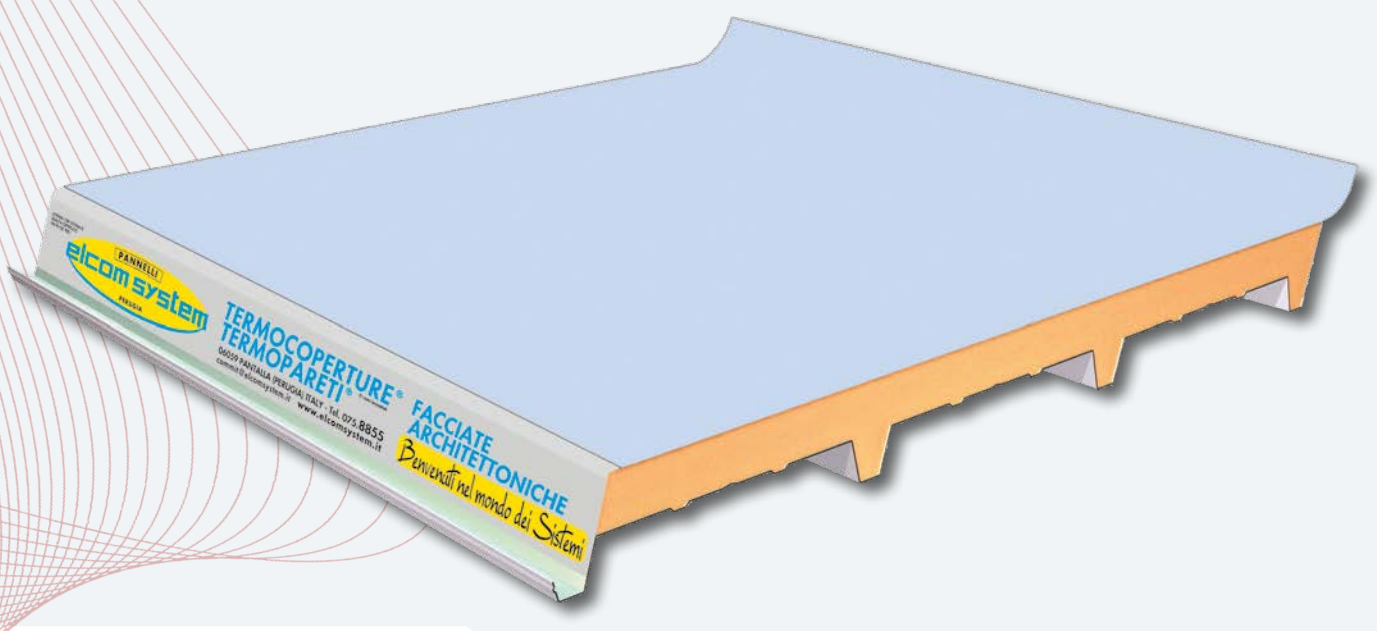
TYPE
SLIM
AC/CB

S
Thickness
mm.10



THERMIC INSULATION			STEEL thickness mm	U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² SPAN IN mℓ													
S thickness mm	R m²K/W	U W/m²K			1,00	1,50	2,00	2,50	3,00	3,50	4,00	1,00	1,50	2,00	2,50	3,00	3,50	4,00
10	0,526	1,90	0,5	Kg/m²	431	187	101	62	-	-	-	510	222	121	75	49	-	-
				KN/m²	4,23	1,83	0,99	0,61	-	-	-	5,00	2,17	1,18	0,73	0,45	-	-
			0,6	Kg/m²	526	229	125	76	41	-	-	620	270	148	91	61	42	-
				KN/m²	5,16	2,25	1,23	0,75	0,40	-	-	6,08	2,64	1,45	0,89	0,59	0,41	-
			0,8	Kg/m²	702	306	167	103	56	-	-	843	368	202	125	84	58	42
				KN/m²	6,89	3,00	1,64	1,01	0,55	-	-	8,26	3,61	1,98	1,22	0,82	0,56	0,41

LOAD CONDITIONS (SLIM AC/CB):
The values shown in the tables are referred to a deflection f≤1/200 of the span ℓ (m). The letter Ⓔ shows the required painted side.



RP/ST MANTO

The **TERMOCOPERTURE® RP/ST MANTO**, with single or double steel sheets, having externally a polyolefin **(TPO)** membrane, are used for flat or low slope roof, offering numerous advantages compared to the bitumen membranes or other traditional techniques.

Technical characteristics

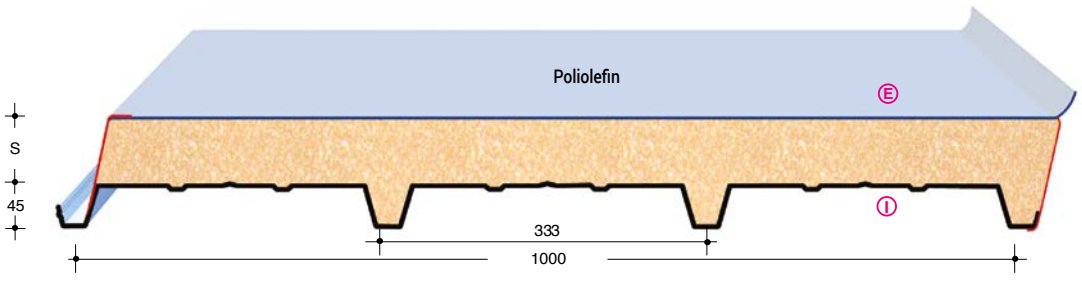
External metallic supports: the internal metallic supports (RP/ST MANTO single sheet) and external/internal (RP/ST MANTO double sheets) are obtained from cold profiling of carbon steel coils coated with hot dip zinc type S250GD according UNI EN 10346 with mechanical characteristics as foreseen in the D.M. of 14.01.2008 and tolerances as per UNI EN 10143 norm.
The finishing of the steel supports (side "I" and side "E") consists of an organic coat obtained from a cycle of hot standard polyester prepainting according to EN 10169.

Thermal Insulation: expanded polyurethane CFC free, according to UNI EN 13165 norm.
Main characteristics:
- Density: 40 kg/m³
- Compressive strength: 140-150 Kpa
- Impermeability: 98% closed cells (non hygroscopic material)

Poliolefin waterproofing membrane 1,5 mm thick
Synthetic waterproofing membrane (polyolefin) produced by coextruding a uniform UV resistant elastomerized (TPO/FPA) thermoplastic olefin and polypropylene alloy, coupled to a non woven polyester material on the internal surface. On the RP/ST Manto double sheet, the membrane is applied in continuous on the steel support side E and sticked with special resins to ensure a perfect adhesion and flatness. The panel joint of the polyolefin membrane is made on site with a hot-air gun without using any adhesive or other materials.

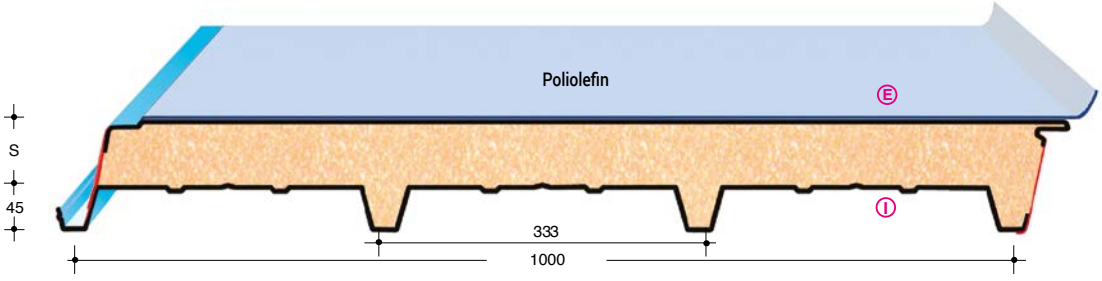
TYPE
RP/ST MANTO SINGLE SHEET

S
Thickness mm.
30-40-50-60
80-100-120



TYPE
RP/ST MANTO DOUBLE SHEET

S
Thickness mm.
30-40-50-60
80-100-120






THERMIC INSULATION			STEEL thickness mm	U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² — SPAN IN mℓ													
S thickness mm	R m²K/W	U W/m²K			1,00	1,50	2,00	2,50	3,00	3,50	4,00	1,00	1,50	2,00	2,50	3,00	3,50	4,00
30	1,435	0,697	0,5	Kg/m²	407	176	95	56	-	-	-	541	236	129	80	53	36	-
				KN/m²	3,99	1,73	0,93	0,55	-	-	-	5,31	2,31	1,26	0,78	0,52	0,35	-
40	1,866	0,536	0,6	Kg/m²	494	215	117	71	37	-	-	660	288	158	98	65	45	-
				KN/m²	4,85	2,11	1,15	0,70	0,36	-	-	6,47	2,83	1,55	0,96	0,64	0,44	-
50	2,309	0,433	0,8	Kg/m²	672	292	160	98	54	-	-	881	385	212	131	88	62	41
				KN/m²	6,59	2,86	1,57	0,96	0,53	-	-	8,64	3,78	2,08	1,28	0,86	0,61	0,40
60	2,747	0,364	1,0	Kg/m²	851	371	203	125	70	39	-	1101	482	265	165	111	78	53
				KN/m²	8,35	3,64	1,99	1,23	0,69	0,38	-	10,80	4,73	2,60	1,62	1,09	0,76	0,52
80	3,623	0,276																
100	4,504	0,222																
120	5,376	0,186																

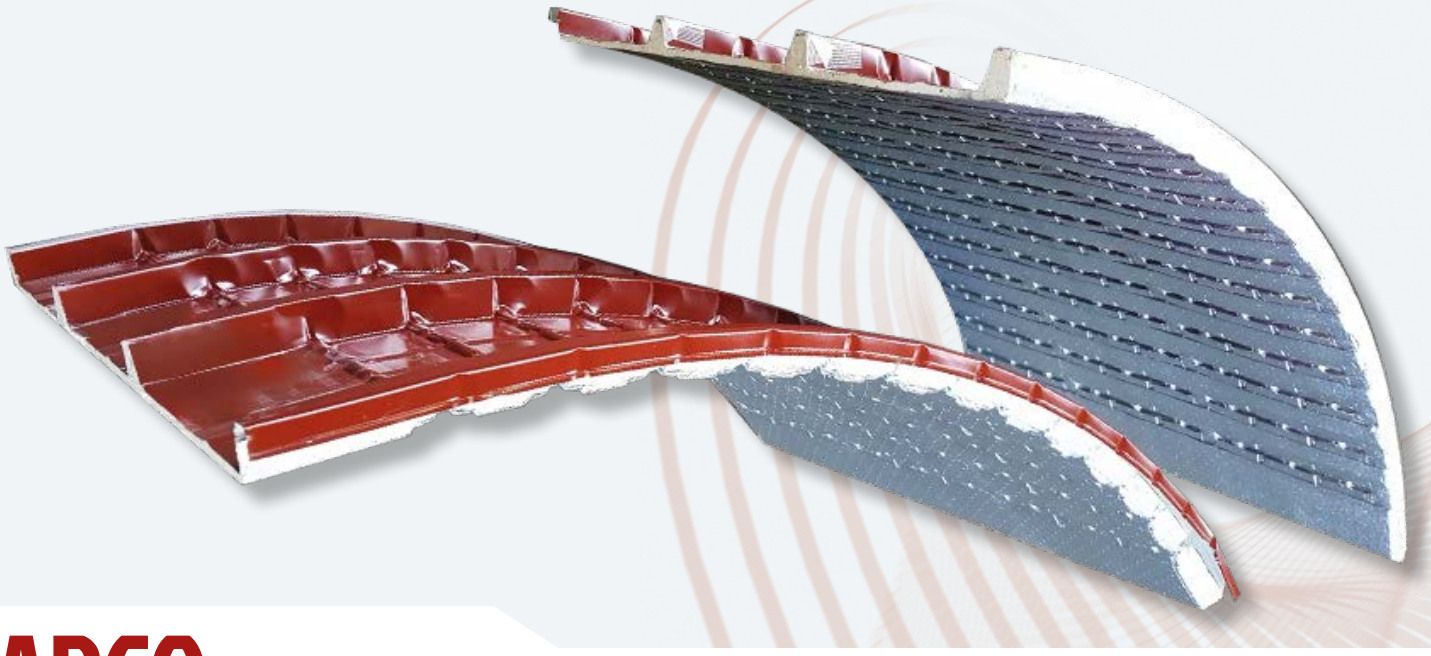
LOAD CONDITIONS (RP/ST MANTO SINGLE SHEETS):
The values shown in the tables are referred to a deflection f≤1/200 of the span ℓ (m). The letter Ⓘ Ⓔ shows the required painted side.

THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² — SINGLE SPAN IN mℓ								
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00
30	1,435	0,697	10,76	Kg/m²	278	160	99	65	43	29	19	12	7
				KN/m²	2,73	1,58	0,98	0,64	0,42	0,29	0,19	0,12	0,08
40	1,866	0,536	11,13	Kg/m²	333	200	129	87	60	42	29	20	14
				KN/m²	3,27	1,96	1,27	0,86	0,59	0,41	0,29	0,20	0,14
50	2,309	0,433	11,51	Kg/m²	390	242	161	111	79	57	41	30	22
				KN/m²	3,83	2,38	1,58	1,09	0,78	0,56	0,41	0,30	0,22
60	2,747	0,364	11,89	Kg/m²	448	285	194	137	99	73	54	41	30
				KN/m²	4,40	2,80	1,91	1,35	0,98	0,72	0,54	0,40	0,30
80	3,623	0,276	12,64	Kg/m²	567	376	265	193	144	109	84	65	50
				KN/m²	5,57	3,69	2,60	1,90	1,42	1,08	0,83	0,64	0,50
100	4,504	0,222	13,40	Kg/m²	688	469	339	253	193	149	117	92	73
				KN/m²	6,76	4,61	3,33	2,49	1,90	1,47	1,15	0,91	0,72
120	5,376	0,186	14,15	Kg/m²	811	565	415	315	244	192	153	122	99
				KN/m²	7,96	5,54	4,08	3,09	2,40	1,89	1,50	1,20	0,97

LOAD CONDITIONS WITH STEEL SUPPORTS (MANTO DOUBLE SHEETS):
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 Ⓘ Ⓔ shows the required painted side.


TERMOCOPERTURE® ARCO

® registered trade name



ARCO

Technical Characteristics:

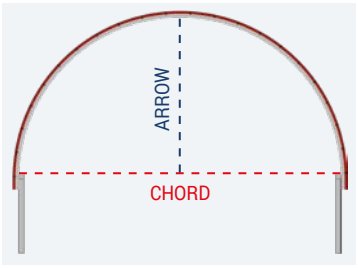
External metallic support: is obtained from cold profiling of coil strips of different materials: **carbon steel** coated with hot dip zinc; **aluminium**; **copper**; **stainless steel**. The finishing of steel and aluminium supports consists of an organic coat obtained from a cycle of hot standard polyester prepainting. On request different coats can be fournished.

Internal support: Embossed centesimal aluminium

Insulation: polyurethane foam (PUR), (the two internal ribs are not foamed)
Main characteristics:
- Foam desity: 60 kg/m³
- Compressive strength: 140-150 Kpa
- Impermeability: 98% closed cells (non hygroscopic material)

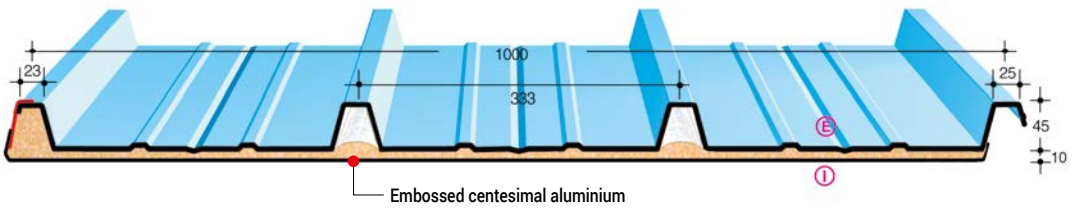
CURVED TERMOCOPERTURA®: *CHOOSE THE CURVE YOU WANT.*

WITHOUT LENGTH LIMITATIONS, WITH A PERFECT VARIABLE RADIUS CURVATURE, ELIMINATES CONDESATION, REDUCES NOISES DERIVING FROM ATMOSPHERIC EVENTS.

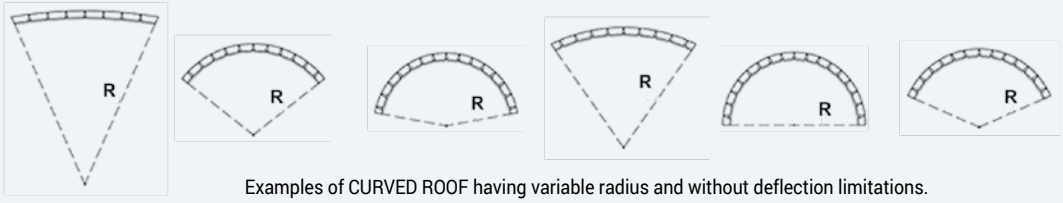


TYPE
ARCO
AC

S
Thickness
mm.10

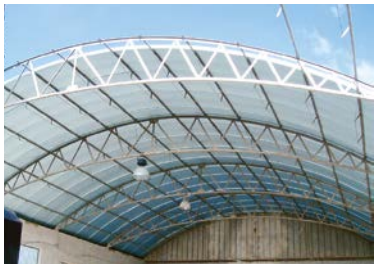


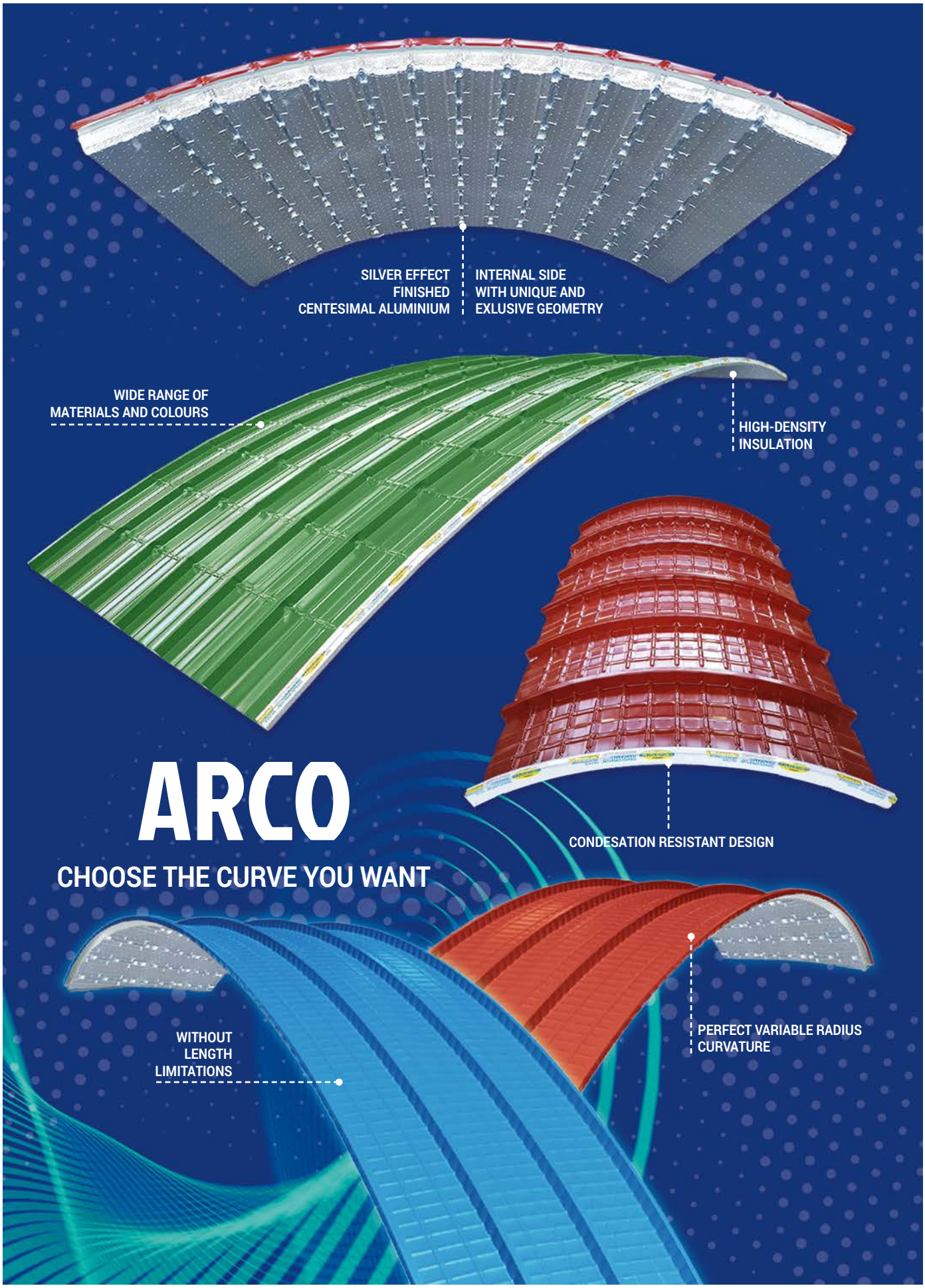
THERMIC INSULATION		
S Thickness mm	**R** $\frac{m^2 K}{W}$	**U** $\frac{W}{m^2 K}$
10	0,526	1,90

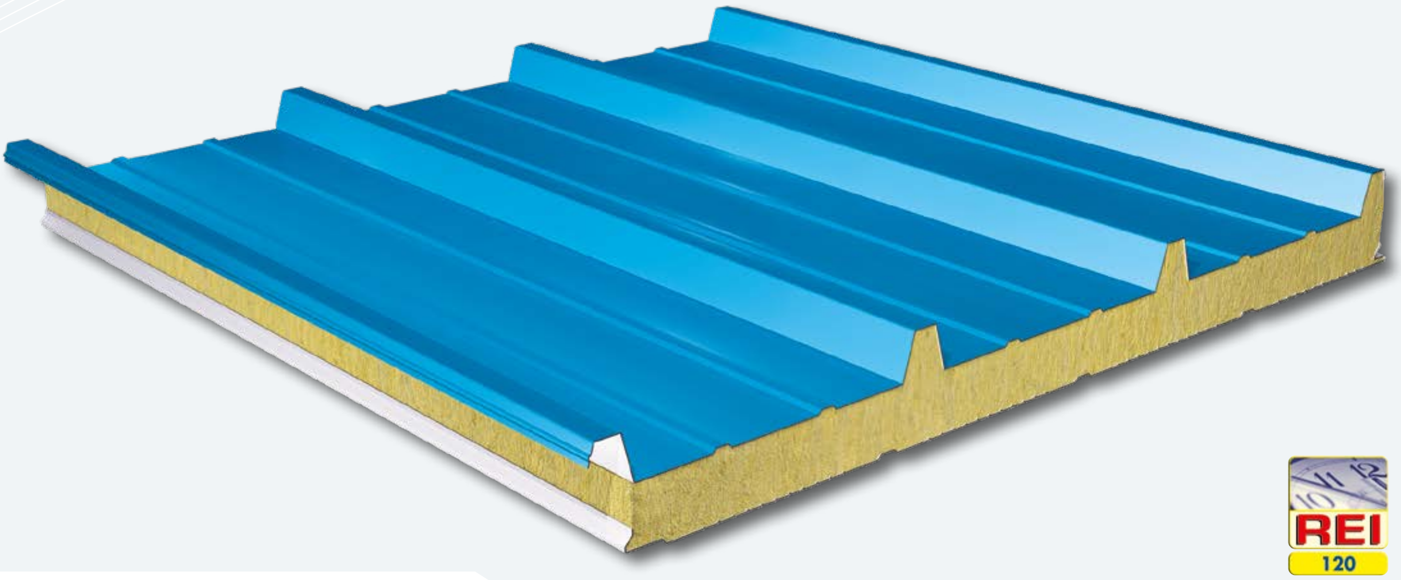


Examples of CURVED ROOF having variable radius and without deflection limitations.




SILVER EFFECT FINISHED CENTESIMAL ALUMINIUM
INTERNAL SIDE WITH UNIQUE AND EXLUSIVE GEOMETRY
WIDE RANGE OF MATERIALS AND COLOURS
HIGH-DENSITY INSULATION
ARCO
CHOOSE THE CURVE YOU WANT
CONDESATION RESISTANT DESIGN
WITHOUT LENGTH LIMITATIONS
PERFECT VARIABLE RADIUS CURVATURE

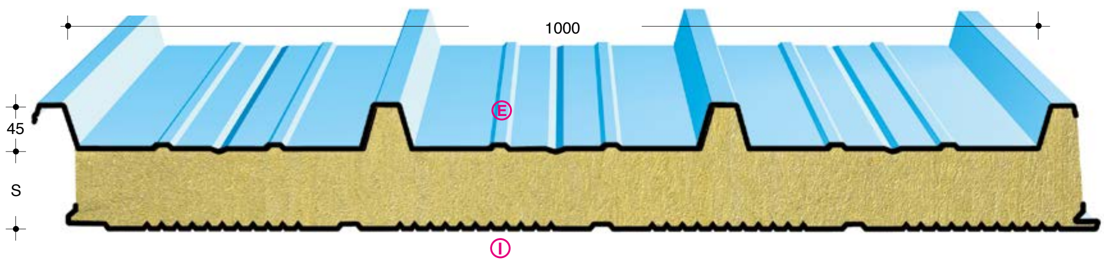


REI 120
Thickness 100

AEFFE OLYMPOS

TYPE
OLYMPOS

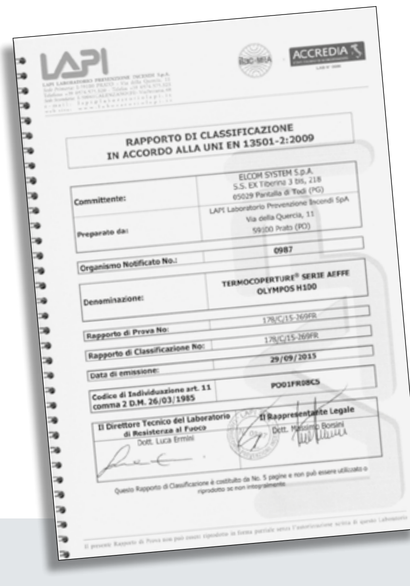
S
Thickness mm.
50-60
80-100



THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²											
S	R	U	weight		SPAN IN m ℓ (single span)						SPAN IN m ℓ (multiple spans)					
thickness mm	m² K / W	W / m² K	Kg/m²		1,50	2,00	2,50	3,00	3,50	4,00	1,50	2,00	2,50	3,00	3,50	4,00
50	1,408	0,71	15,21	Kg/m²	185	154	127	102	85	70	167	136	106	88	57	61
				KN/m²	1,82	1,51	1,25	1,00	0,84	0,69	1,64	1,33	1,04	0,86	0,56	0,60
60	1,639	0,61	16,21	Kg/m²	235	192	158	131	105	88	215	173	138	116	94	82
				KN/m²	2,30	1,88	1,55	1,29	1,03	0,86	2,11	1,70	1,35	1,14	0,92	0,80
80	2,127	0,47	18,21	Kg/m²	296	241	211	174	143	118	276	222	182	159	133	112
				KN/m²	2,90	2,36	2,07	1,71	1,40	1,16	2,71	2,18	1,78	1,56	1,30	1,10
100	2,564	0,39	20,21	Kg/m²	397	333	279	229	192	151	378	314	254	214	204	143
				KN/m²	3,89	3,26	2,74	2,25	1,88	1,48	3,71	3,08	2,49	2,10	2,00	1,40

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+0,6 mm. The letter Ⓘ Ⓔ shows the required painted side.
Average density of rockwool: 100 Kg/m³ - minimum guaranteed values obtained from tests carried out by the **University of Studies of Perugia**, Faculty of Engineering, Industrial Engineering Department (experimental tests institute).

The product. The panels AEFFE, type OLYMPOS, are obtained by sticking in continuous two metallic supports with a rock wool layer. Their use is necessary when a high soundproofing and a good heat insulation, together with incombustibility and a high fire resistance, are requested for roofs.
External supports. They are generally obtained from hot-dip galvanized steel coils S250GD according to UNI EN 10346 norms and/or with an organic coating having characteristics according to UNI EN 10169 cold profiling. On request can also be fournished steel supports in stainless steel according to EN 10088-1 norms or in aluminium according to UNI EN 1396.
Insulation. The core consists of an orientated rock wool layer (100 kg/m³) put perpendicularly to the supports in order to give a higher stability to the panel and improve its mechanical performances.
Thermal conductivity coefficient of rock wool: λ= 0,041 ÷ 0,045 W/mK.
The use of orientated rock wool gives to the panel excellent characteristics of acoustic insulation on a wide frequency spectrum, in particular if a microdrilled support is placed towards the source of the noise. In fact the noise produced, for instance, by the rain and the hail on the roof will be reduced considerably.
Mechanical performances. The values indicated in the tables have been calculated according to CNR 10022/87 and ECCS instructions and are supported by several tests about uniformly distributed loads executed by the Faculty of Engineering of the University of Perugia, Industrial Engineering Department (Experimental Tests Institute).



LAPI

ACCREDIA

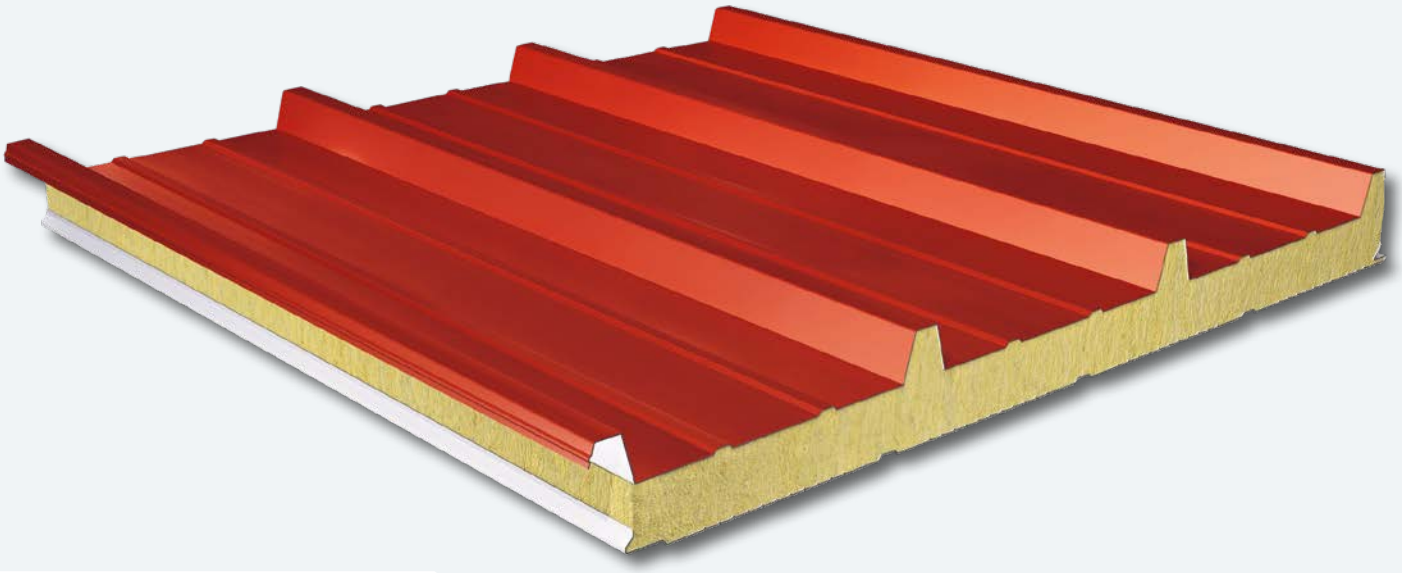
RAPPORTO DI CLASSIFICAZIONE
IN ACCORDO ALLA UNI EN 13501-2:2009

Committente:	ELCOM SYSTEM S.p.A. S.S. EX Tiberina 3 bis, 218 05029 Pantalla di Todi (PG)
Preparato da:	LAPI Laboratorio Prevenzione Incendi SpA Via della Quercia, 11 59100 Prato (PO)
Organismo Notificato No.:	0987
Denominazione:	TERMOCOPERTURE® SERIE AEFFE OLYMPOS H100
Rapporto di Prova No:	178/C/15-269FR
Rapporto di Classificazione No:	178/C/15-269FR
Data di emissione:	29/09/2015
Codice di Individuazione art. 11 comma 2 D.M. 26/03/1985	PO01FR08C5
Il Direttore Tecnico del Laboratorio di Resistenza al Fuoco Dott. Luca Ermini	Il Rappresentante Legale Dott. Massimo Borsini

Questo Rapporto di Classificazione è costituito da No. 5 pagine e non può essere utilizzato o riprodotto se non integralmente.

PANELS elcom system ITALY

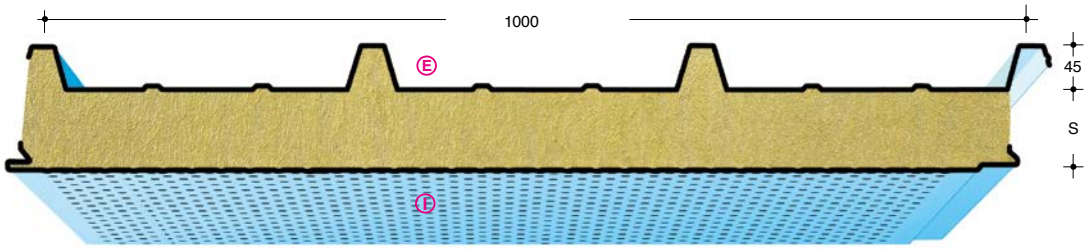
® registered trade name



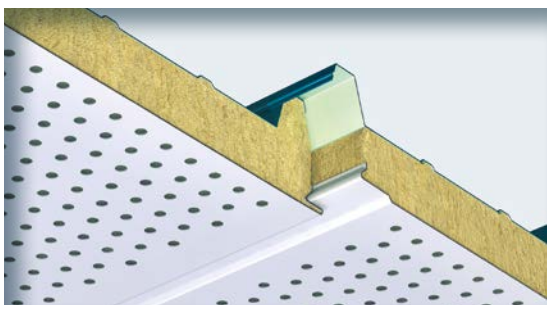
AEFFE OLYMPOS TERMOFONISOL

TYPE
OLYMPOS TERMOFONISOL

S
Thickness mm.
50-60
80-100



THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m² SPAN IN mℓ			
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		1,50	2,00	2,50	3,00
50	1,408	0,71	13,55	Kg/m²	116	86	-	-
				KN/m²	1,14	0,84	-	-
60	1,639	0,61	14,55	Kg/m²	147	106	77	58
				KN/m²	1,44	1,04	0,76	0,57
80	2,127	0,47	16,55	Kg/m²	184	133	104	76
				KN/m²	1,81	1,31	1,02	0,75
100	2,564	0,39	18,55	Kg/m²	191	141	112	85
				KN/m²	1,87	1,38	1,10	0,83



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+0,6 mm. The letter Ⓘ Ⓔ shows the required painted side.
Average density of rockwool: 100 Kg/m³ - minimum guaranteed values obtained from tests carried out by the **University of Studies of Perugia**, Faculty of Engineering, Industrial Engineering Department (experimental tests institute).


PIERREL

ARCHITECTURAL FACADES

Surprising Solutions creating Architecture

PANELS
elcom system
ITALY

SERBOND® ARCHITECTURAL FACADES

CLADDINGS FOR ARCHITECTURAL RENOVATIONS AND ENERGY-UPGRADING

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 minimum yielding limit 150 MPa
COPPER - UNI EN 1172
COR-TEN
STAINLESS STEEL - according UNI EN 10088-1 Norm
Insulation: PUR or PIR density ~ 40 Kg/m³
Thickness: mm. 40-50-60-80-100
Standard panel: Width mm. 1000
The flexibility of the system gives the possibility to realize panels with different developments

COORDINATED SYSTEMS FOR MODULAR CLADDINGS

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 cladding is mainly directed towards commercial, residential building and public utilities. It can be used both for new buildings and for renovations. The different types of accessories work with different types of structures 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.
The system includes **FLAT**, **BUBBLE**, **RUGBY**, **CAOS** and the **new EPICO panels** and many adaptable elements in a wide range of developments and colours that enhance 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, with thermic cut joint and hidden fixing 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.

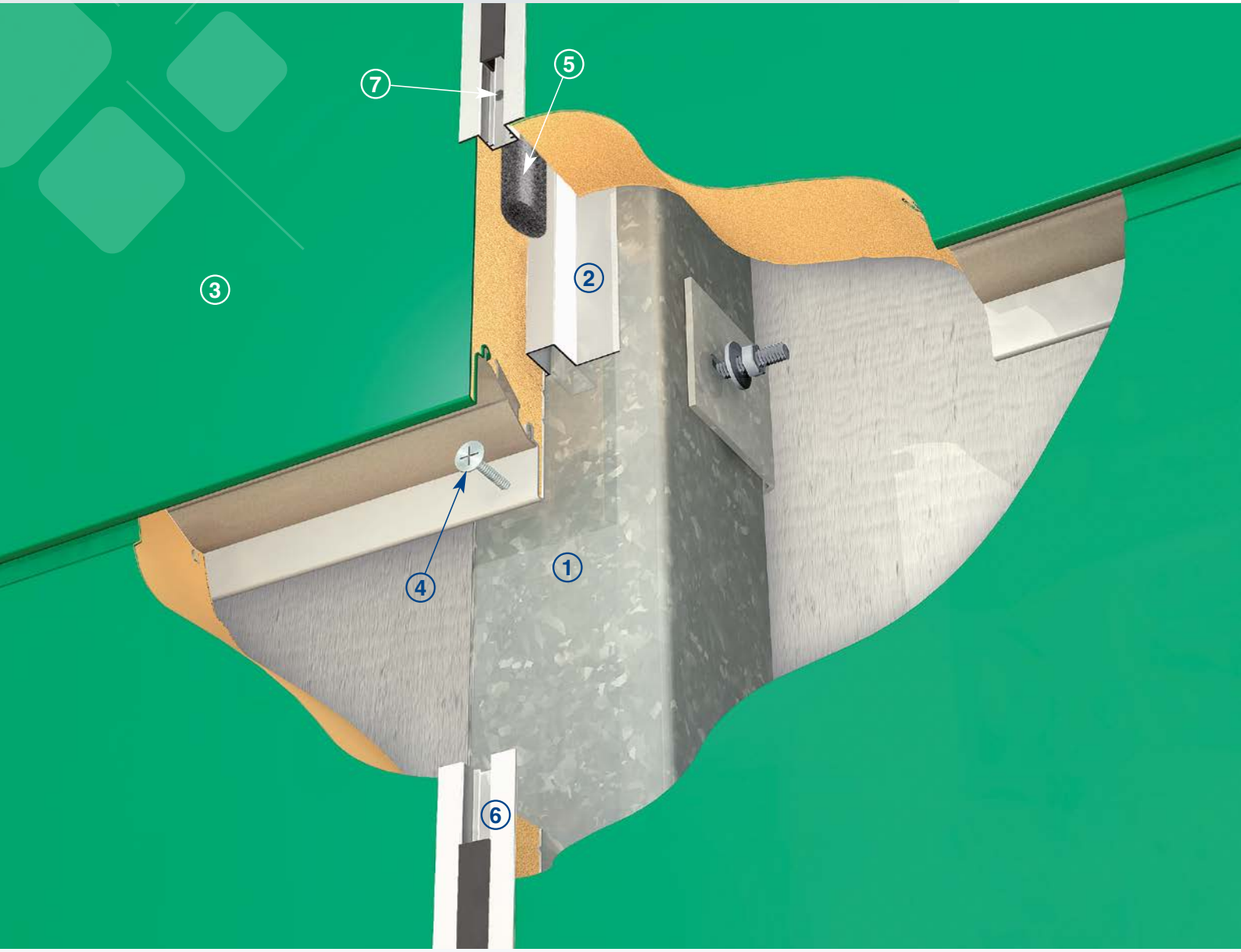
TENDER SPECIFICATIONS

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, with thermic cut joint and hidden fixing are finished with an extruded aluminium profile. They 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. steel ....×..... mm thick, anchored to the main structure by means of a suitable fixing system.
PANELS WITH THERMIC CUT AND HIDDEN FIXING TYPE TERMOPARETI® WP/STFlat or WPM/C-FNFlat
- 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 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 to 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 profiles ....×... of the substructure are anchored to the bearing structure of the building, then the panels and the special components with thermic cut are being installed.



DETAILS OF THE SERBOND® SYSTEM

1. **SUBSTRUCTURE IN GALVANIZED STEEL**

2. **FLASHING TO FIX ALUMINIUM** PROFILE

3. **TERMOPARETI® WITH HIDDEN FIXING**

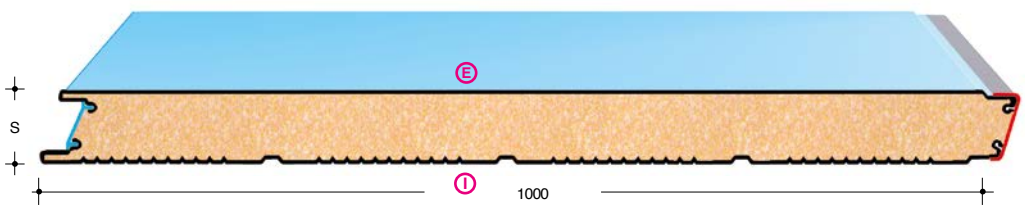
4. **SCREWS WITH LARGE FLAT HEAD TO FIX TERMOPARETI®**

5. **"LEM CORD" GASKET - DIAMETER 20 mm**

6. **ALUMINIUM PROFILE PAINTED IN DIFFERENT COLOURS WITH BLACK EPDM RUBBER**

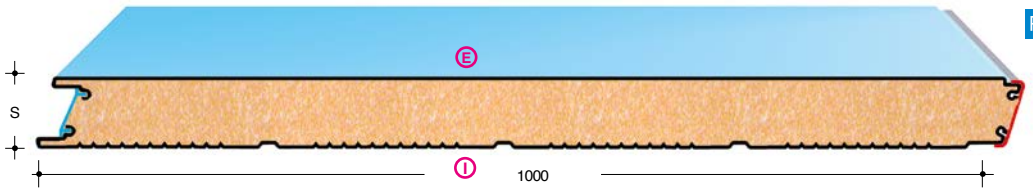
7. **"DRILLEX" SCREWS TO FIX ALUMINIUM PROFILE**

TYPE
WP/ST FLAT
S=Thickness mm. 40-50 60-80-100



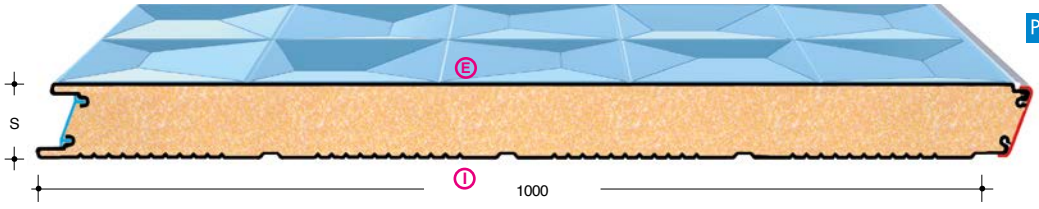
OPTION
PIR B-s2,d 0

TYPE
WPM/C-FN FLAT
S=Thickness mm. 40-50 60-80-100



OPTION
PIR B-s2,d 0

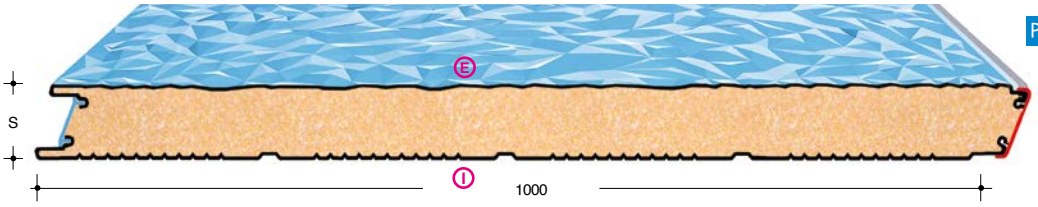
TYPE
WPM/C-FN EPICO
S=Thickness mm. 40-50 60-80-100



NEW

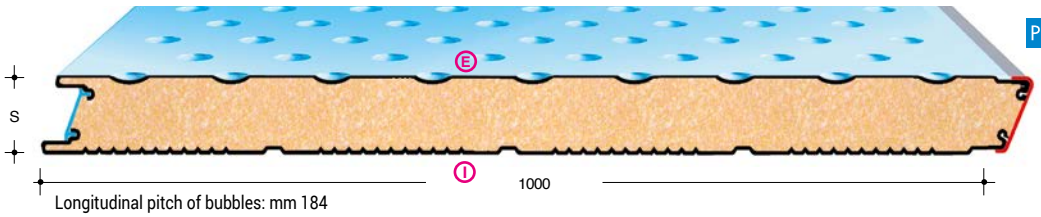
OPTION
PIR B-s2,d 0

TYPE
WPM/C-FN CAOS
S=Thickness mm. 40-50 60-80-100



OPTION
PIR B-s2,d 0

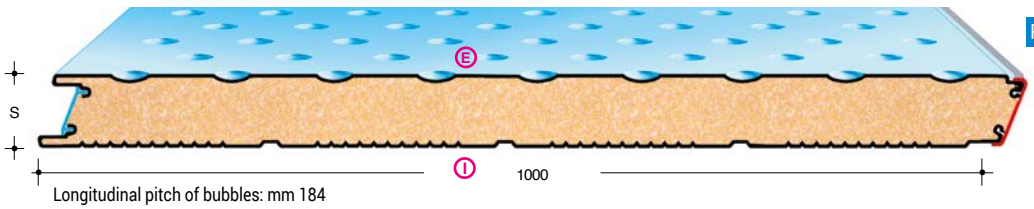
TYPE
WP/ST BUBBLE
S=Thickness mm. 40-50 60-80-100



Longitudinal pitch of bubbles: mm 184

OPTION
PIR B-s2,d 0

TYPE
WPM/C-FN BUBBLE
S=Thickness mm. 40-50 60-80-100



Longitudinal pitch of bubbles: mm 184

OPTION
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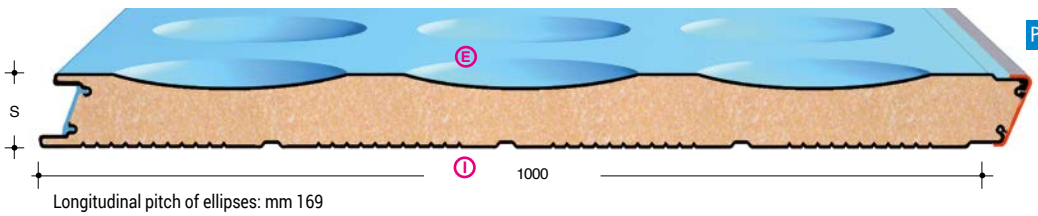
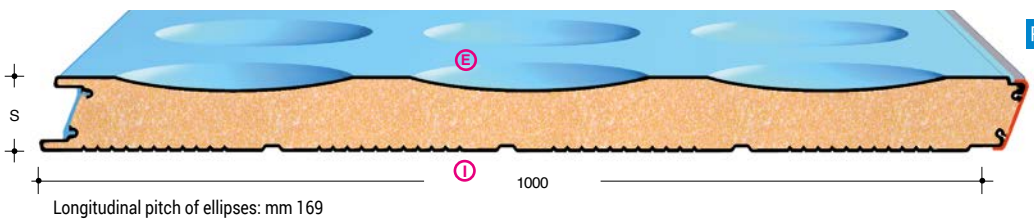
TYPE
WP/ST RUGBY
S=Thickness mm. 40-50 60-80-100



Longitudinal pitch of ellipses: mm 169

OPTION
PIR B-s2,d 0

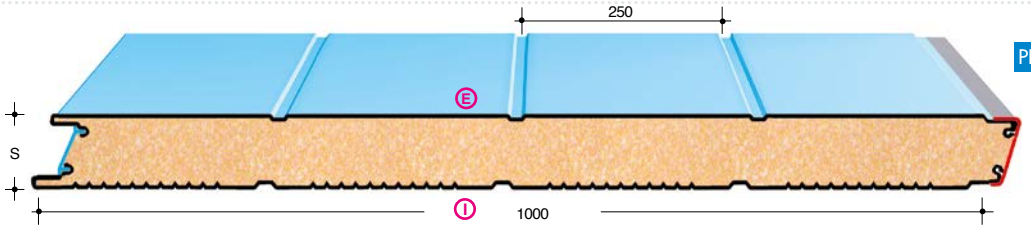
TYPE
WPM/C-FN RUGBY
S=Thickness mm. 40-50 60-80-100



Longitudinal pitch of ellipses: mm 169

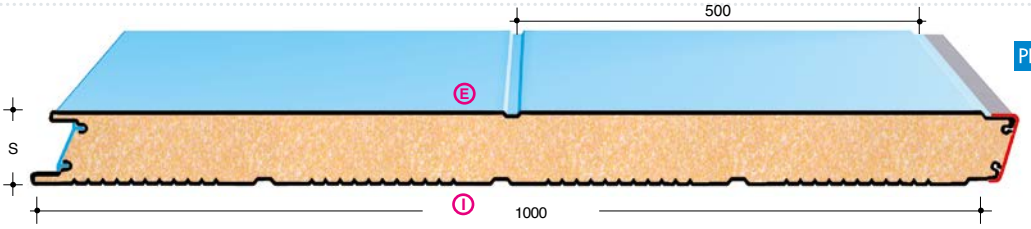
OPTION
PIR B-s2,d 0

TYPE
WP/ST ALT 1
S=Thickness mm.
40-50
60-80-100



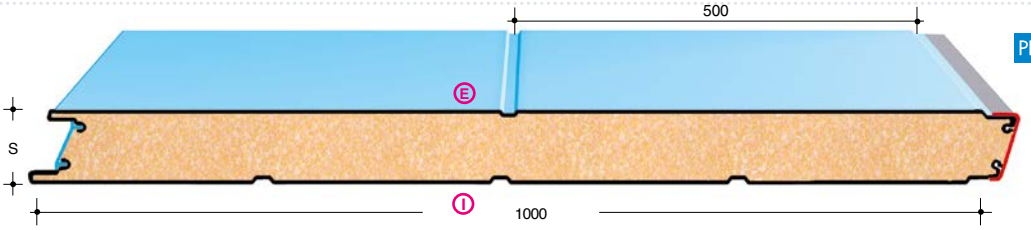
OPTION
PIR B-s2,d 0

TYPE
WP/ST ALT 2
S=Thickness mm.
40-50
60-80-100



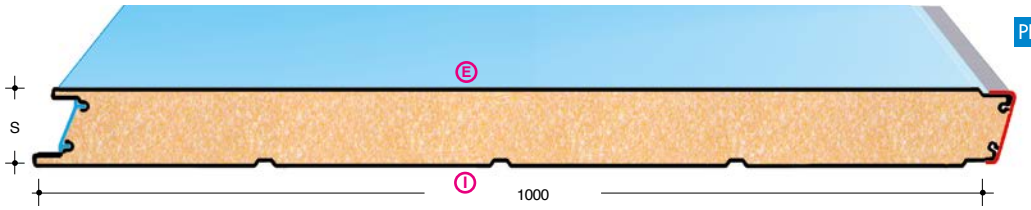
OPTION
PIR B-s2,d 0

TYPE
WP/ST ALT 3
S=Thickness mm.
40-50
60-80-100



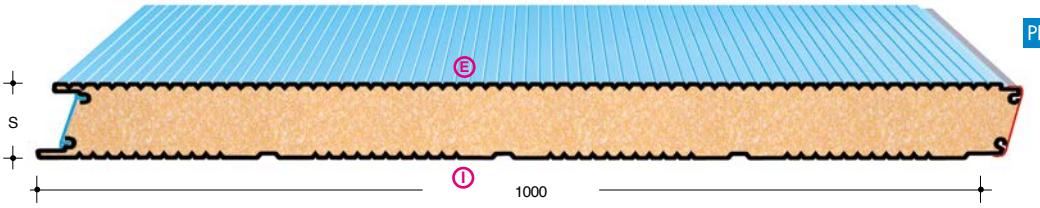
OPTION
PIR B-s2,d 0

TYPE
WP/ST ALT 4
S=Thickness mm.
40-50
60-80-100



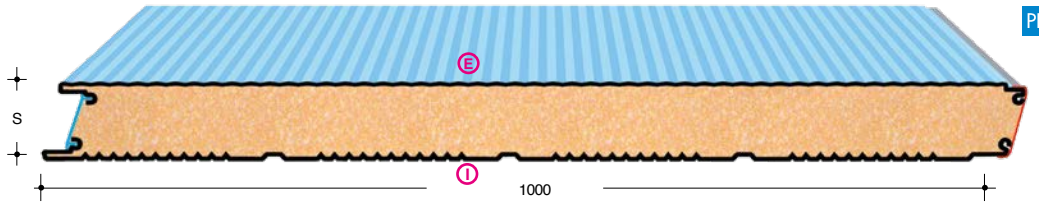
OPTION
PIR B-s2,d 0

TYPE
WPM/C-FN
S=Thickness mm.
40-50
60-80-100



OPTION
PIR B-s2,d 0

TYPE
WPM/C-FN MICRO
S=Thickness mm.
40-50
60-80-100



OPTION
PIR B-s2,d 0

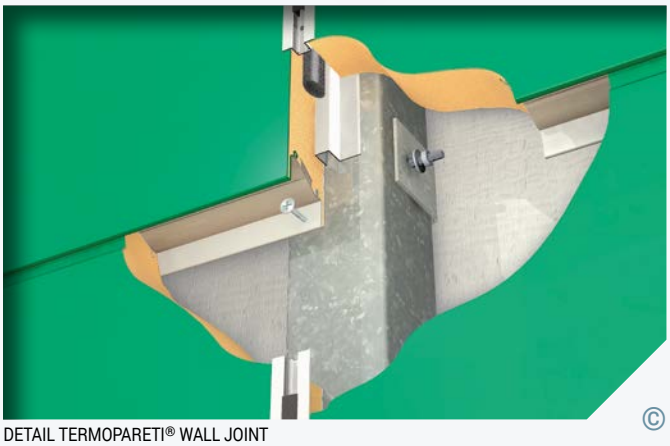
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	10,15	Kg/m²	166	125	90	70	55	178	140	108	85	70
				KN/m²	1,63	1,22	0,88	0,68	0,54	1,74	1,37	1,05	0,83	0,68
50	2,309	0,433	10,53	Kg/m²	225	160	120	90	70	245	182	140	115	90
				KN/m²	2,21	1,57	1,18	0,88	0,68	2,41	1,78	1,37	1,13	0,88
60	2,747	0,364	10,91	Kg/m²	289	216	142	115	85	321	237	181	141	115
				KN/m²	2,83	2,12	1,39	1,13	0,83	3,15	2,32	1,77	1,38	1,13
80	3,623	0,276	11,67	Kg/m²	455	316	227	160	120	500	365	280	215	145
				KN/m²	4.46	3,09	2,22	1,57	1,18	4,91	3,58	2,74	2,11	1,42
100	4,504	0,222	12,63	Kg/m²	470	345	260	200	160	510	390	285	225	180
				KN/m²	4,60	3,38	2,55	1,96	1,57	4,99	3,82	2,79	2,20	1,76

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 Ⓘ Ⓔ shows the required painted side.

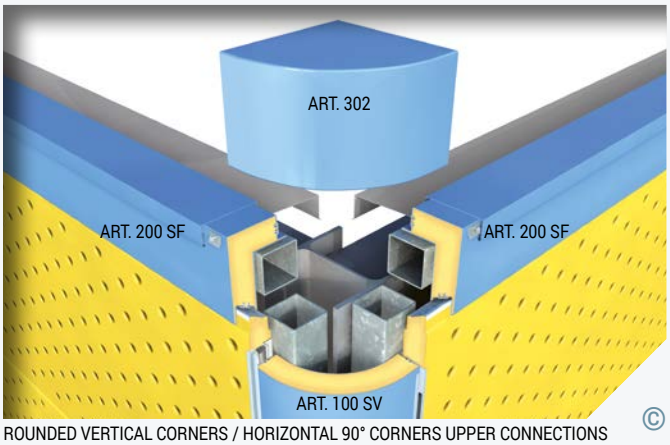
THERMIC INSULATION				U.M.	SUPPORT CONDITIONS - Useful loads uniformely distributed in Kg/m² – KN/m²									
S thickness mm	R m²K/W	U W/m²K	weight Kg/m²		SPAN IN mℓ									
					2,00	2,50	3,00	3,50	4,00	2,00	2,50	3,00	3,50	4,00
40	1,866	0,536	5,16	Kg/m²	108	64	41	27	19	149	95	64	44	32
				KN/m²	1,06	0,62	0,40	0,26	0,18	1,46	0,93	0,63	0,43	0,31
50	2,309	0,433	5,56	Kg/m²	150	92	60	41	29	194	129	89	63	46
				KN/m²	1,47	0,90	0,58	0,40	0,28	1,90	1,26	0,87	0,61	0,45
60	2,747	0,364	5,96	Kg/m²	191	121	81	56	40	237	162	114	83	62
				KN/m²	1,87	1,18	0,79	0,55	0,39	2,32	1,59	1,11	0,81	0,61
80	3,623	0,276	6,76	Kg/m²	272	180	125	89	65	317	225	165	124	95
				KN/m²	2,67	1,76	1,22	0,87	0,63	3,11	2,20	1,62	1,21	0,93
100	4,504	0,222	7,56	Kg/m²	290	235	180	110	90	310	255	190	135	100
				KN/m²	2,84	2,30	1,76	1,08	0,88	2,94	2,49	1,86	1,32	0,98

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 Ⓘ Ⓔ shows the required painted side.

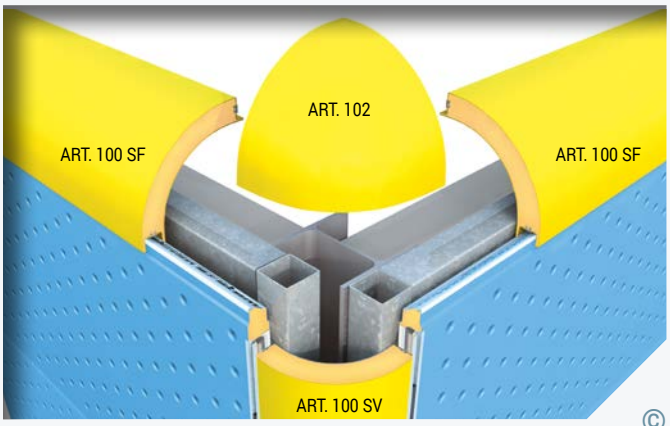
SPECIAL CONNECTIONS FOR WINDOWS



DETAIL TERMOPARETI® WALL JOINT ©



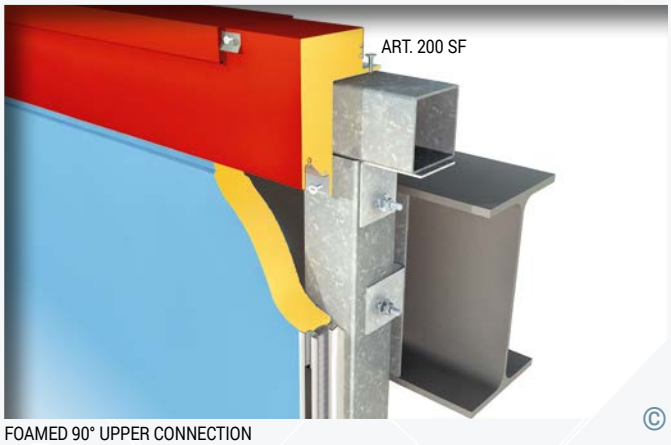
ROUNDED VERTICAL CORNERS / HORIZONTAL 90° CORNERS UPPER CONNECTIONS ©



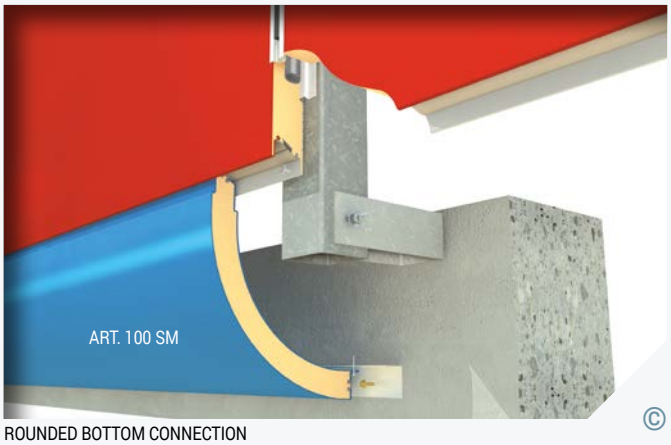
ROUNDED UPPER CONNECTION ©

ROUNDED VERTICAL CONNECTION

FOAMED 90° BOTTOM CONNECTION

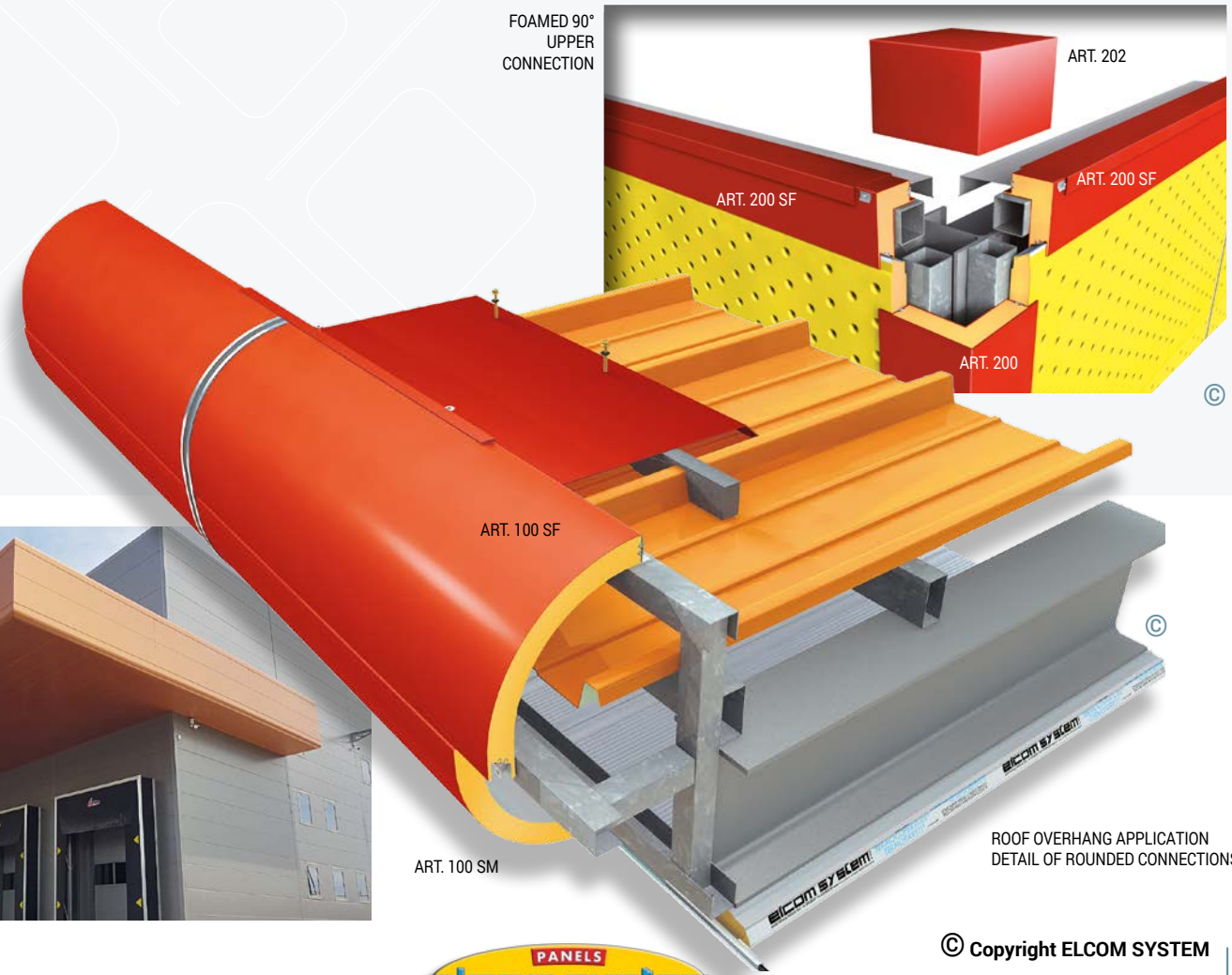


FOAMED 90° UPPER CONNECTION



ROUNDED BOTTOM CONNECTION

FOAMED 90° UPPER CONNECTION



ROOF OVERHANG APPLICATION
DETAIL OF ROUNDED CONNECTIONS

ENERGY-UPGRADING AND ARCHITECTURAL RENOVATION

PROJECTS

ENERGY-UPGRADING AND ARCHITECTURAL RENOVATION

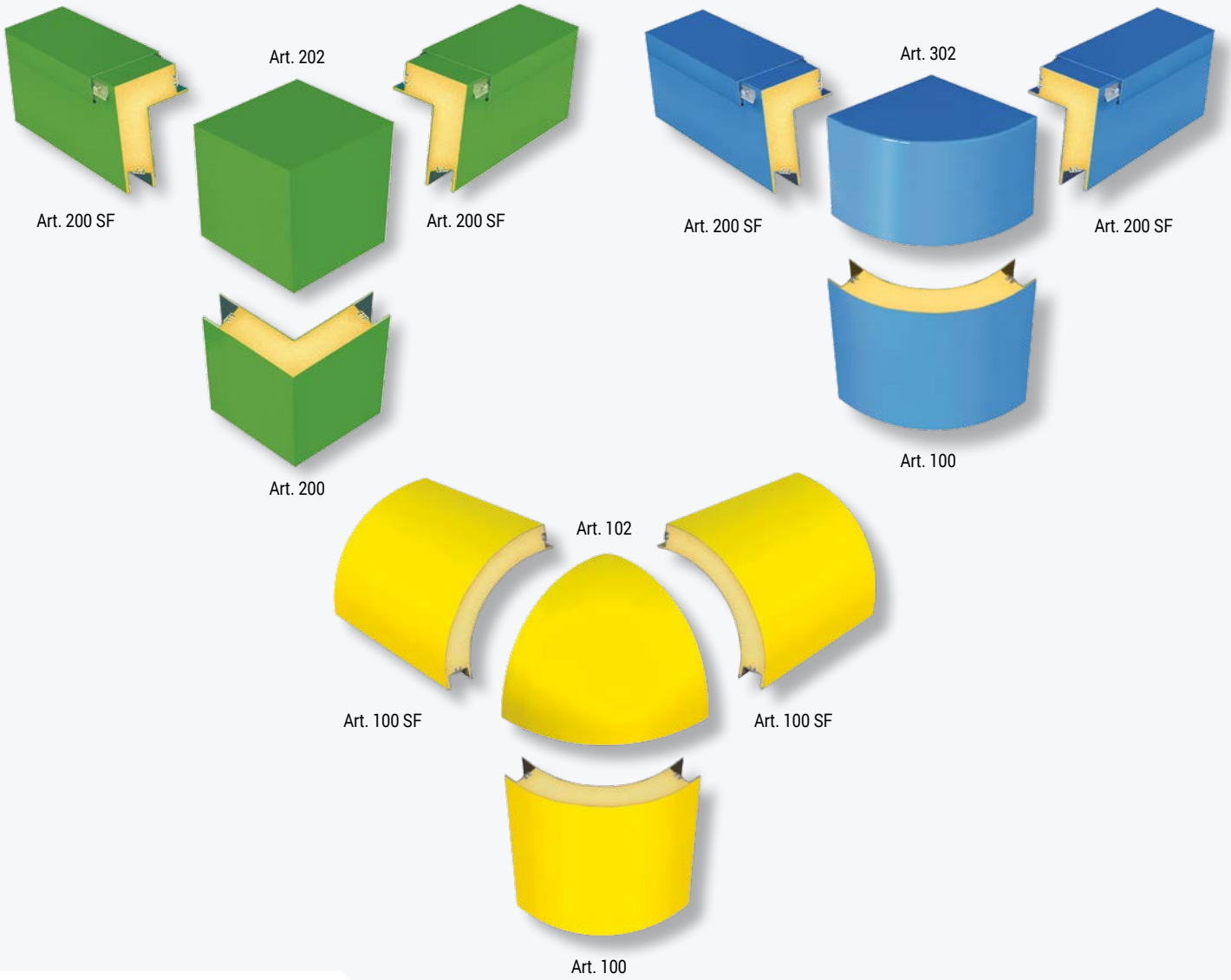
PROJECTS

PANELS elcom system ITALY


AFTER


Manhattan
CALZATURE
ABBIGLIAMENTO
ARTICOLI SPORTIVI
ENTRATA

Systems for architectural wall cladding
Special components with thermic cut



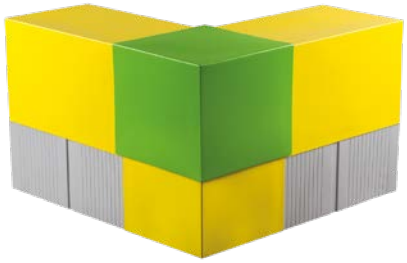
facciatearchitettoniche.it

Art. 302

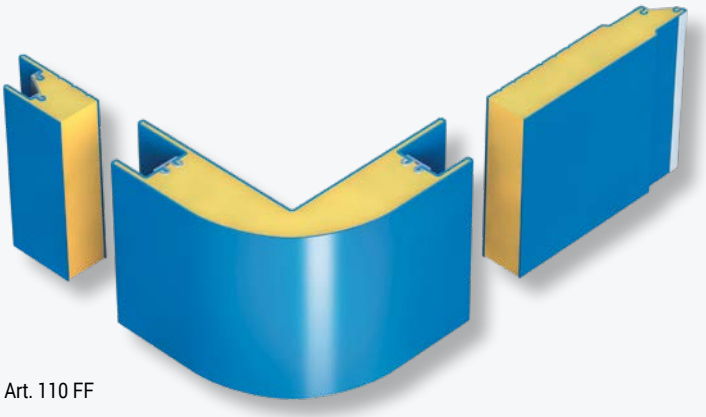
Art. 202

Art. 102

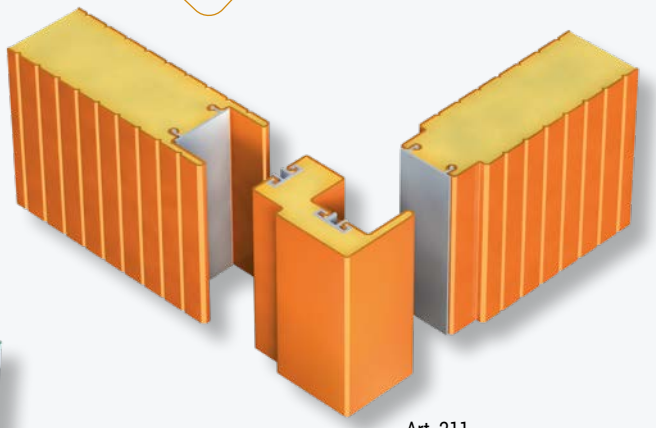
Art. 102 Special



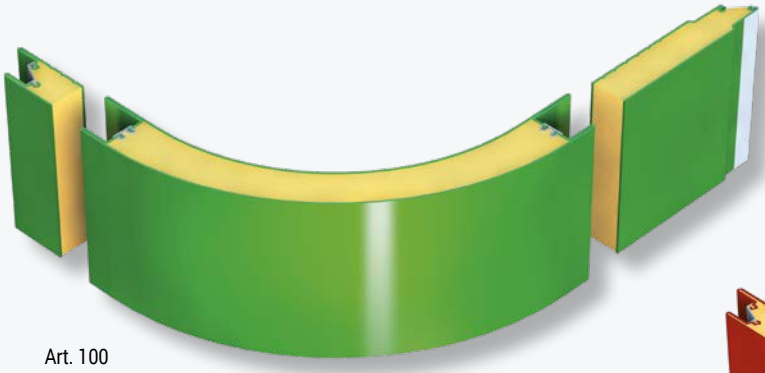
PANELS elcom system ITALY



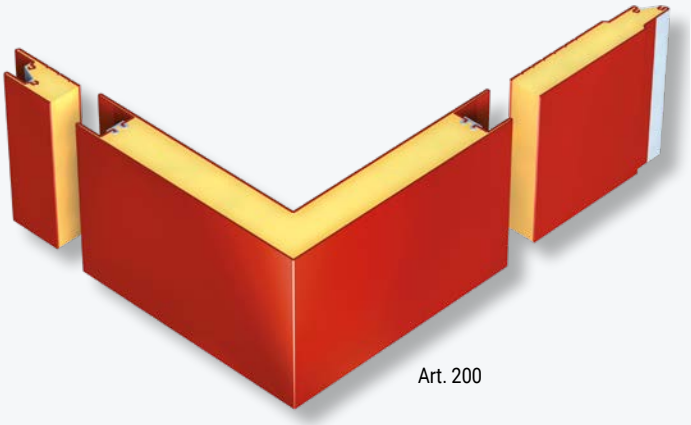
Art. 110 FF



Art. 211

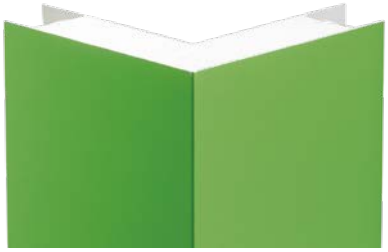


Art. 100

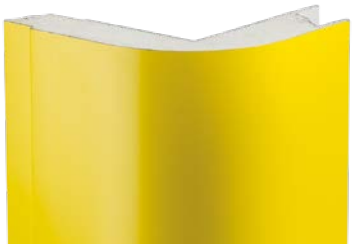


Art. 200

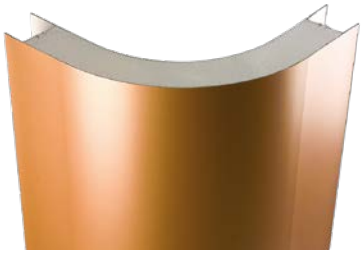
Art. 200



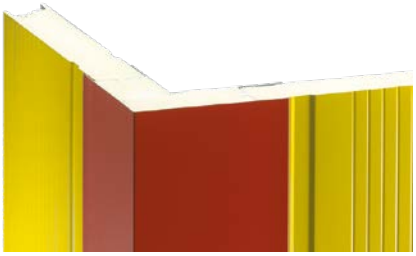
Art. 110 MF



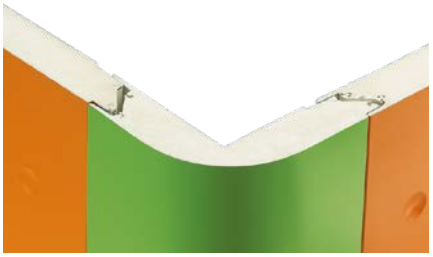
Art. 100



Art. 200



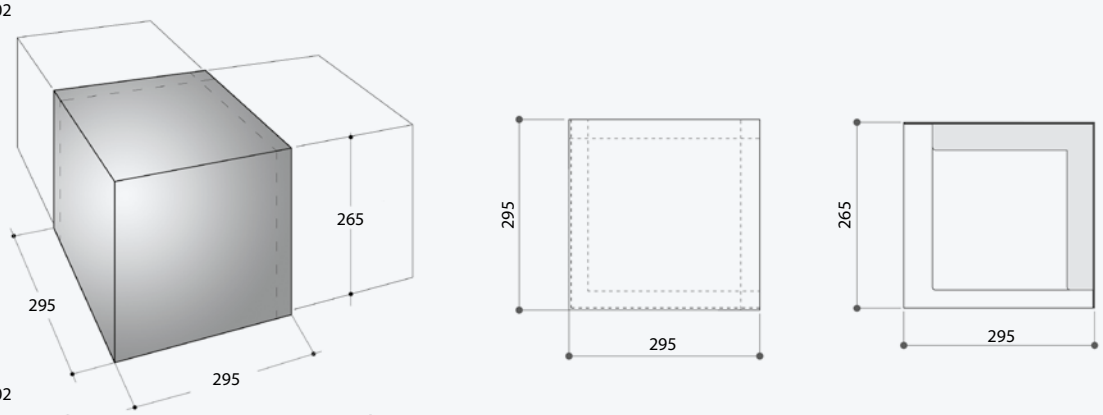
Art. 110 MF



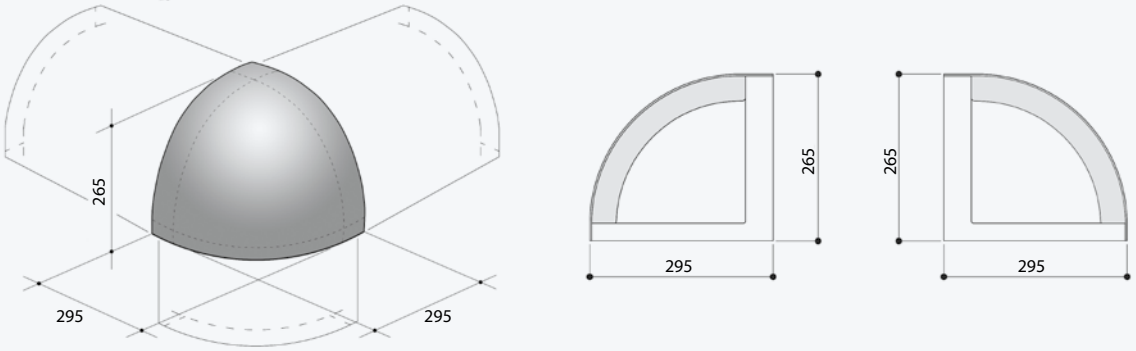
Art. 100

Systems for architectural wall cladding
Special components with thermic cut

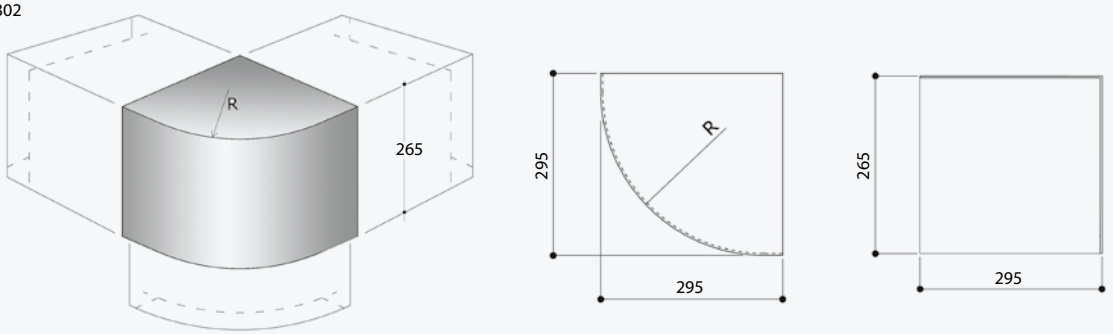
ART. 202



ART. 102

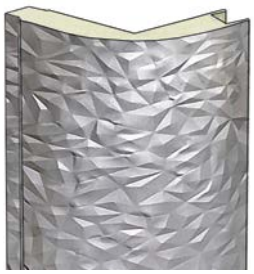


ART. 302



ART. 200 SS CAOS

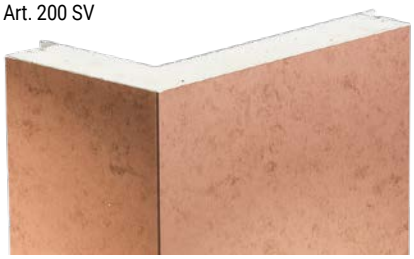
ART. 110 MF CAOS

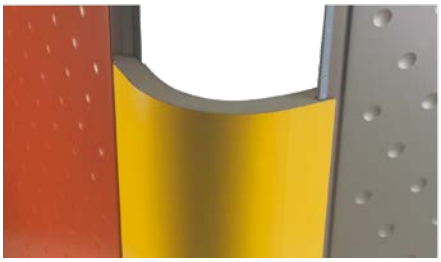


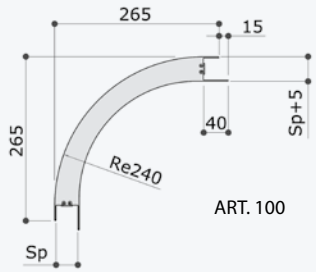
ART. 110 FF CAOS

Art. 200 SS

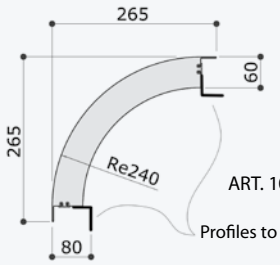
Art. 200 SV





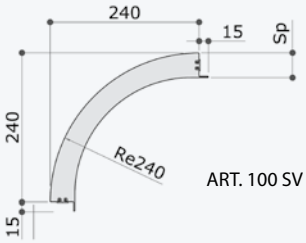


ART. 100

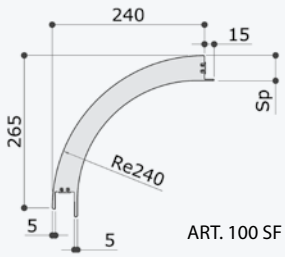


ART. 100 Sp mm 80-100

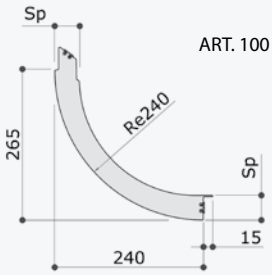
Profiles to be assembled on site



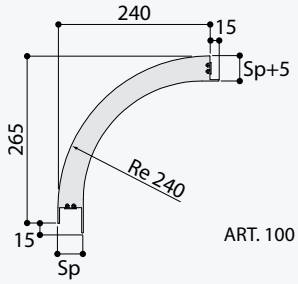
ART. 100 SV



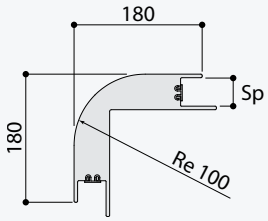
ART. 100 SF



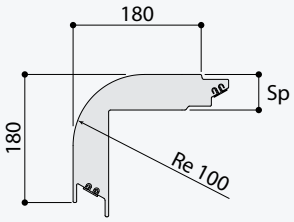
ART. 100 SM



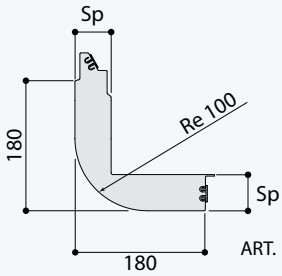
ART. 100 TV



ART. 110 FF



ART. 110 MF



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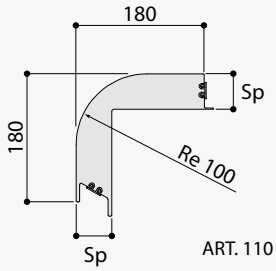

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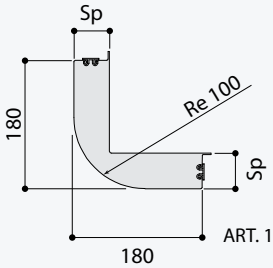

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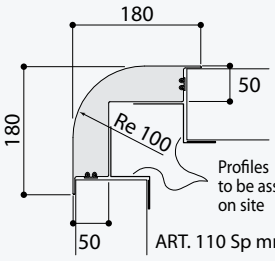
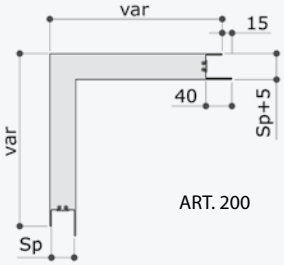
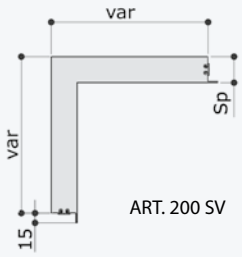


Profiles to be assembled on site

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



ART. 200



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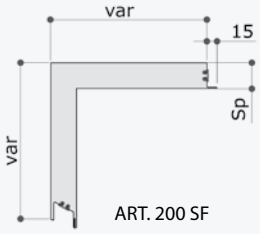

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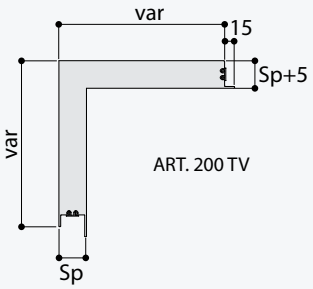

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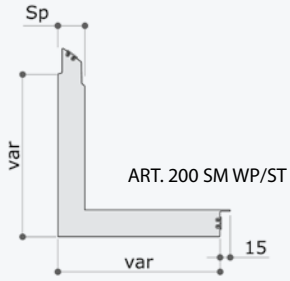
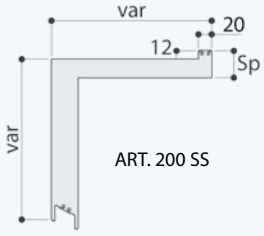
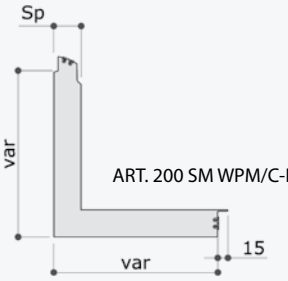


ART. 200 SM WP/ST

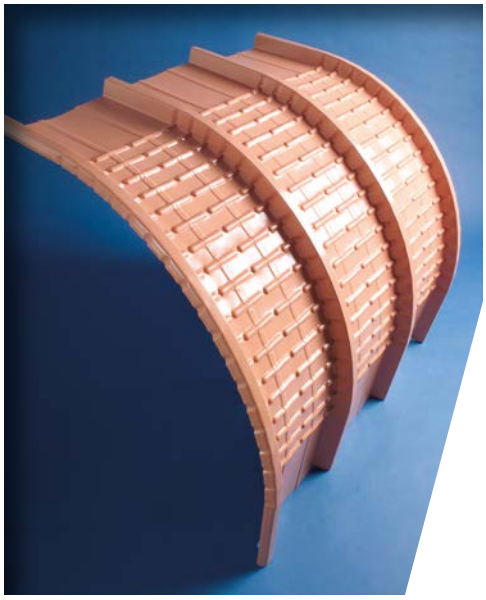


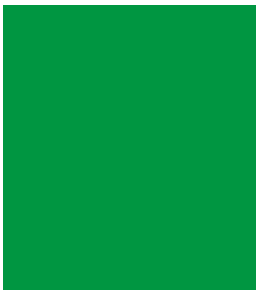
ART. 200 SS

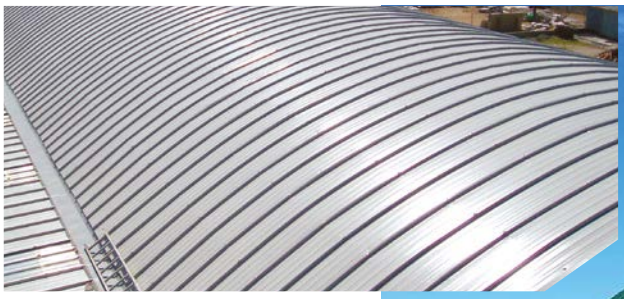


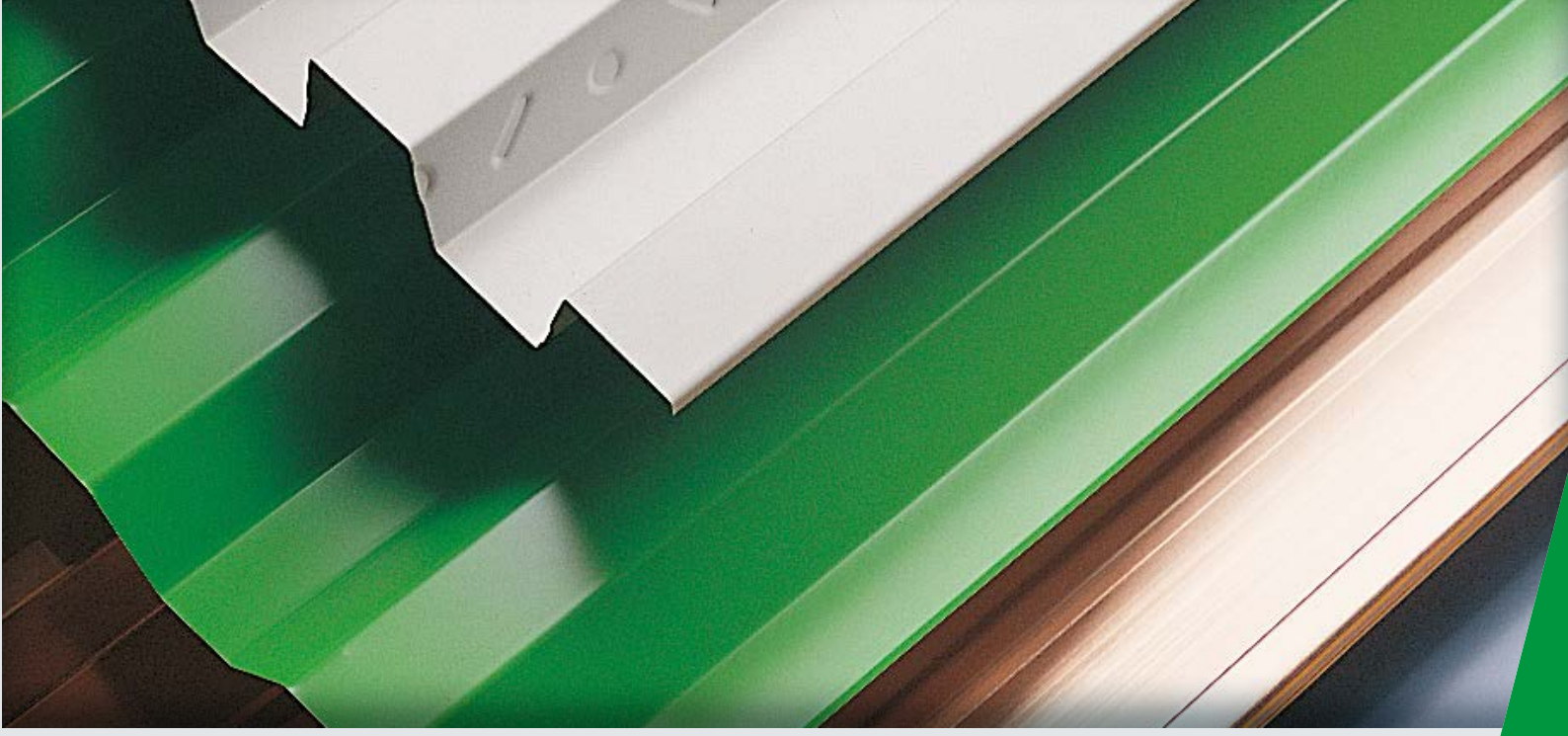
ART. 200 SM WPM/C-FN

PANELS elcom system ITALY





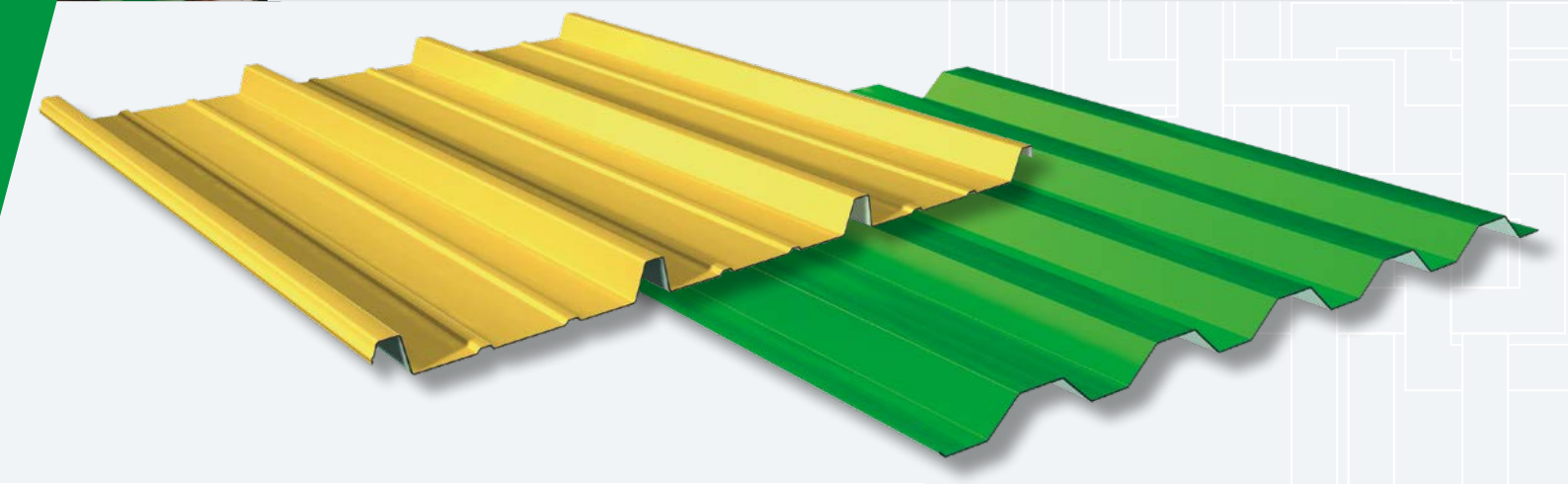




TRAPEZOIDAL SHEETS SOLAC® STEEL DECKINGS

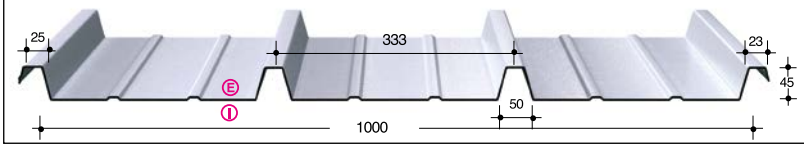
PANELS elcom system ITALY

TRAPEZOIDAL SHEETS



LG 454 | LG 450 | LG 100

LG 454

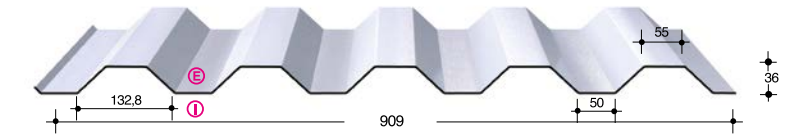


thickness mm	KG/m²
0,6	5,89
0,7	6,87
0,8	7,85
1,0	9,81
1,2	11,77

NET LOADS KG/m² — ℓ span in m

thickness mm	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	556	354	244	178	135	105	84	62	47	36	27	21	16
0,7	648	412	284	207	157	123	98	73	55	41	32	25	19
0,8	740	471	325	236	179	140	112	83	62	47	36	28	22
1,0	923	587	405	295	223	175	140	104	78	59	46	35	27
1,2	1106	704	485	353	268	209	167	125	94	71	55	42	33
deflection cm	0,19	0,30	0,44	0,60	0,78	0,99	1,23	1,37	1,50	1,62	1,75	1,87	2,00

LG 450

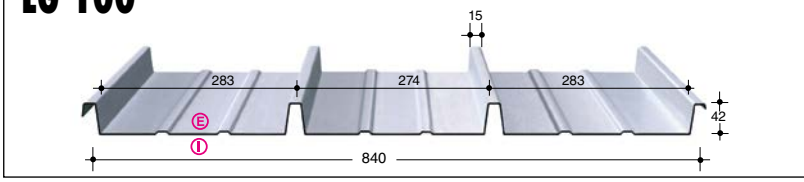


thickness mm	KG/m²
0,6	5,54
0,7	6,47
0,8	7,39
1,0	9,24

NET LOADS KG/m² — ℓ span in m

thickness mm	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	656	420	291	193	129	91	66	50					
0,7	811	519	361	234	157	110	80	60					
0,8	976	624	434	277	186	130	95	71	55				
1,0	1326	848	580	365	245	172	125	94	73				
deflection cm	0,33	0,51	0,74	0,88	1,00	1,13	1,25	1,38	1,50				

LG 100



mm	KG/m²
0,6	6,00
0,7	7,00
0,8	8,00
1,0	10,00
1,2	12,00

NET LOADS KG/m² — ℓ span in m

thickness mm	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	464	295	203	147	111	87	69	50					
0,7	541	344	236	172	130	101	80	58					
0,8	618	393	270	196	148	115	92	67	50				
1,0	772	490	337	245	185	144	115	84	62				
1,2	926	588	405	294	222	173	138	101	75	56			
deflection cm	0,20	0,31	0,45	0,61	0,80	1,01	1,25	1,38	1,50	1,63			

The **TRAPEZOIDAL SHEETS** of **ELCOM SYSTEM S.p.A.** (company with **UNI EN ISO 9001:2000** certification) have been researched to be used in roofing and wall. The possibilities of particular ways of shaping such as cambering and drawing allows for their use in every kind of building.

Technical Characteristics

Materials. The Trapezoidal Sheets are obtained by cold profiling of coils of following materials:

- Carbon steel coated with zinc applied in a continuos hot dip according to UNI EN 10346 norm with mechanical characteristics as foreseen in the D.M. of 14/01/2008.
- Stainless steel whose characteristics are fixed by EN10088-1 norms;
- Aluminium with a minimum yielding limit 150 MPa according to UNI EN 1396 norm.
- Copper with mechanical characteristic and physical properties defined by UNI EN 1172 norm.

Finishing. All materials, except copper, can be fournished with an organic hot dip coat applied in continuous, with characteristics according to the UNI EN 10169 norm.
The surfaces of the coils are degreased and pretreated according to their nature. Next is the application with rollers of a priming coat on both sides having a thickness of 5 microns; after baking at 220/250°C approx., a finishing coat will be applied. The standard paint coat is Polyester whose thickness is 25 microns. On request other coatings can be fournished. The corrugated sheets obtained from prepainted coils are more resistant to the wear and tear of time and the different colours give an effect of a high finishing. The guarantee for the prepainting depends on the resins applied, on the environmental conditions and on the use of the products.

Tolerances. The maximum dimensional and forme tolerances are according the UNI EN 508-1-2-3 norms.

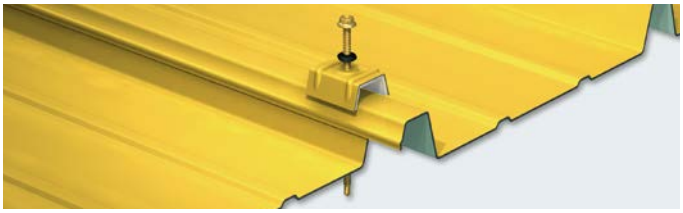
Definition of static characteristics and live loads. Conditions:

1 - σ_{amm} = 165 N/mm² (Fe S250GD - UNI EN 10326)
2 - load "P" uniformly distribuited
3 - "ℓ" span between supports
4 - Deflection f ≤ 1/200 "ℓ"

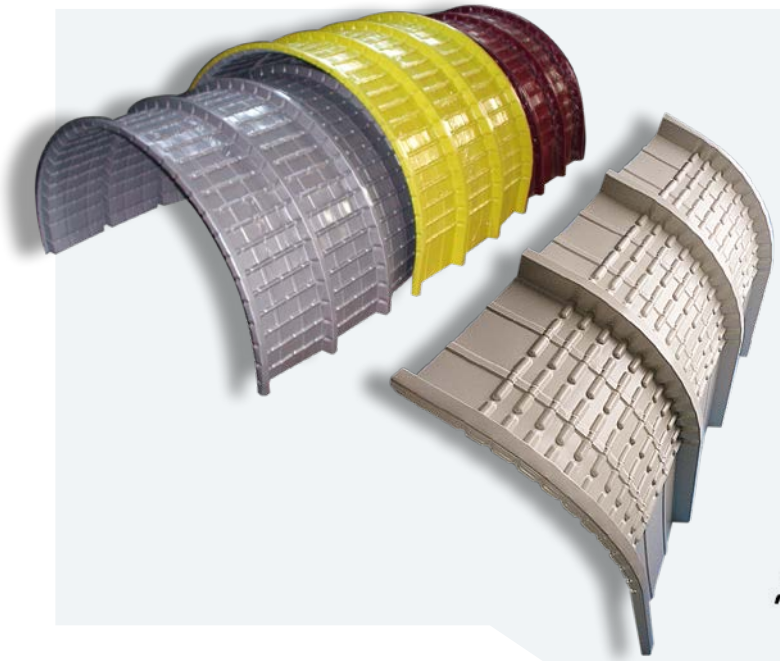
Modulos of steel elasticity E = 210000 N/mm²

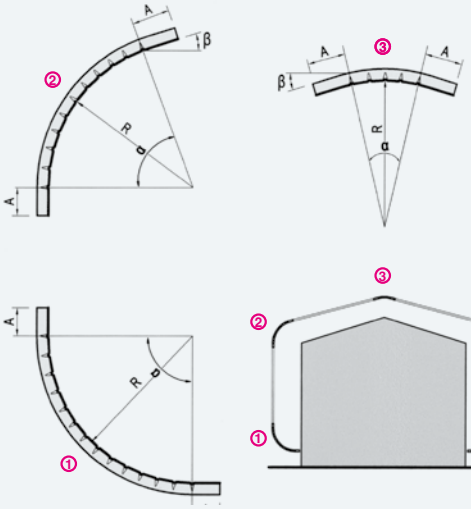
Description of the method adopted to determine the static parameters

It is made reference to the CNR 10022-84 norms, about the instructions for the construction of cold profiles and to the AIPPEG (Italian Association for Panels and Corrugated sheets manufacturers) recommendations

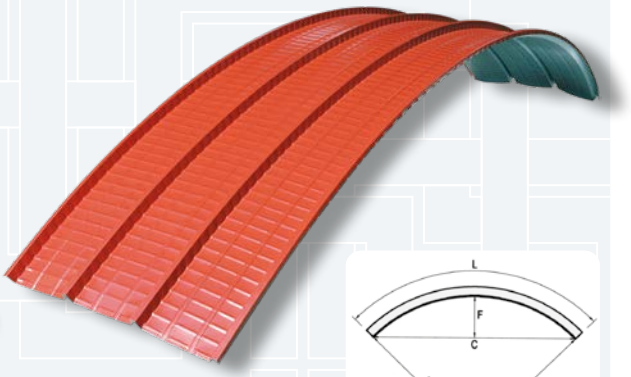


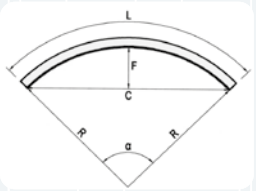
STAMPED SHEETS

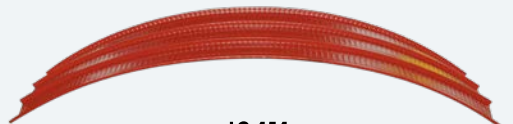




LG 454 minimum radius 500 mm. - A = minimum 50 mm

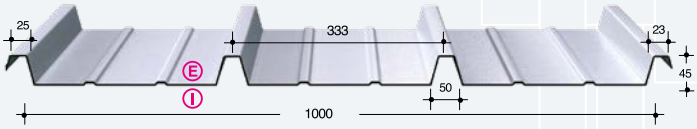






LG 454
minimum radius 3000 mm
minimum thickness 0,6 mm

LG 454

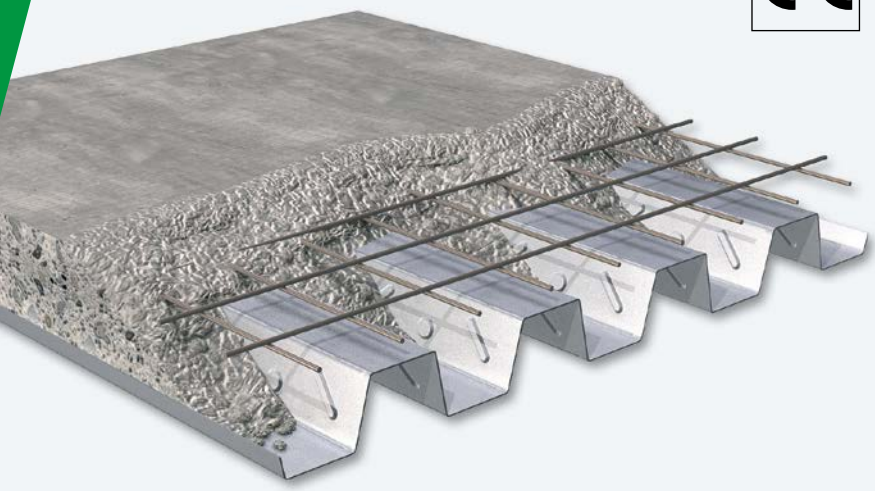


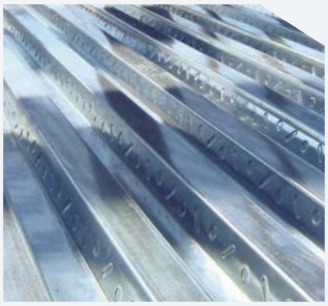
thicknes Kg/m²	
mm	
0,6	5,89
0,7	6,87
0,8	7,85
1,0	9,81
1,2	11,77

CAMBERED SHEETS

SOLAC® STEEL DECKINGS

® registered trade name





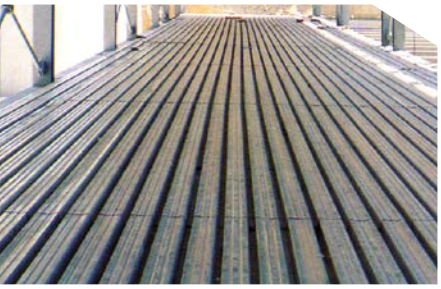
Thickness	S	mm	0,6	0,7	0,8	1,0	1,2
Weight	P	kg/m²	7,85	9,16	10,47	13,08	15,70
Section modulus	W	cm³/m	11,69	14,46	17,40	23,69	30,38
	Wr	cm³/m	13,71	16,97	20,44	26,66	33,35
Moment of inertia	J	cm⁴/m	40,95	49,85	59,07	78,15	97,52

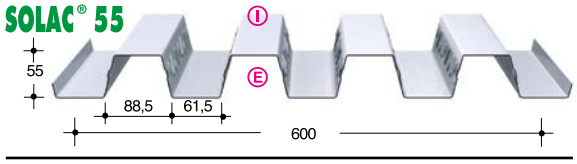
NET LOADS Kg/m²

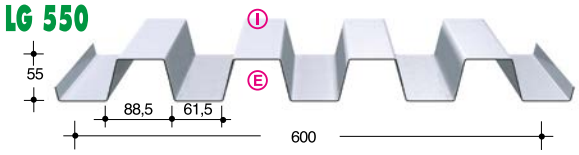
ℓ span in m

thickness mm	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	1302	830	574	420	319	251	202	151	114	88	69	55	
0,7	1610	1027	711	520	396	311	248	184	140	108	85	67	54
0,8	1938	1237	855	626	477	374	294	219	166	128	101	80	64
1,0	2640	1685	1166	853	650	511	390	290	220	170	134	106	85
1,2	3387	2162	1497	1095	835	657	488	362	276	213	168	133	107
deflection cm	0,20	0,32	0,46	0,63	0,82	1,04	1,25	1,37	1,50	1,62	1,75	1,87	2,00

SOLAC® 55 - LG 550







Geometric and static properties

thickness mm	SLAB - 3,5 cm. HT = 9 cm. X cm	J cm⁴/m	W cm³/m	Me kg cm/m
0,6	5,81	227	39,04	54649
0,7	5,66	253	44,67	62536
0,8	5,52	277	50,16	70223
1,0	5,29	321	60,78	85098
1,2	5,10	362	71,02	99429

Net loads in Kg/m²

loading conditions	height cm	thickness mm	weight Kg/m²	ℓ span in m 1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
	SLAB 3,5 cm. Ht = 9 cm.	0,6	162	1781	1266	931	702	538	416	324	252	195	149	111
		0,7	163	2060	1470	1088	825	637	498	393	310	245	193	150
		0,8	164	2332	1670	1240	945	734	578	460	367	294	235	184
		1,0	167	2859	2056	1535	1178	922	733	590	478	389	317	238
		1,2	169	3246	2428	1819	1402	1103	882	714	584	480	384	287
		deflection cm		0,28	0,39	0,50	0,64	0,79	0,95	1,13	1,33	1,54	1,77	2,00

Geometric and static properties

thickness mm	SLAB - 4,5 cm. HT = 10 cm. X cm	J cm⁴/m	W cm³/m	Me kg cm/m
0,6	6,50	300	46,11	64553
0,7	6,32	334	52,77	73875
0,8	6,16	365	59,25	82952
1,0	5,90	423	71,76	100470
1,2	5,68	476	83,76	117261

Net loads in Kg/m²

loading conditions	height cm	thickness mm	weight Kg/m²	ℓ span in m 1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
	SLAB 4,5 cm. Ht = 10 cm.	0,6	187	2108	1499	1104	833	639	496	387	302	235	180	136
		0,7	188	2438	1742	1289	979	757	593	468	371	294	232	181
		0,8	189	2760	1977	1470	1121	872	688	548	439	352	282	225
		1,0	192	3328	2433	1818	1396	1094	871	701	569	464	380	310
		1,2	194	3458	2869	2151	1659	1307	1046	848	694	571	473	392
		deflection cm		0,25	0,34	0,45	0,57	0,70	0,85	1,01	1,19	1,38	1,58	1,80

Geometric and static properties

thickness mm	SLAB - 5,5 cm. HT = 11 cm. X cm	J cm⁴/m	W cm³/m	Me kg cm/m
0,6	7,21	387	53,63	75085
0,7	7,01	430	61,41	85971
0,8	6,83	471	68,98	96574
1,0	6,53	546	83,60	117040
1,2	6,28	613	97,61	136651

Net loads in Kg/m²

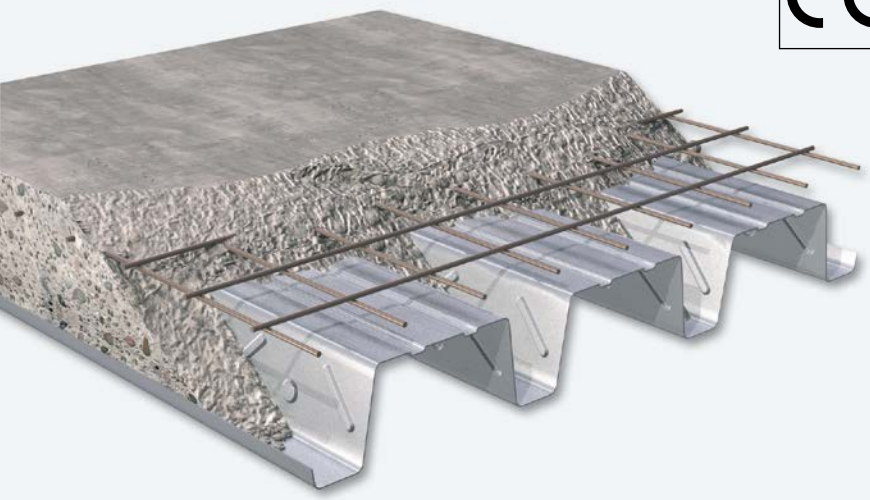
loading conditions	height cm	thickness mm	weight Kg/m²	ℓ span in m 1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
	SLAB 5,5 cm. Ht = 11 cm.	0,6	212	2458	1749	1290	975	749	582	455	357	278	215	163
		0,7	213	2844	2033	1506	1145	887	696	551	438	348	276	217
		0,8	214	3219	2308	1717	1312	1022	807	644	517	416	335	268
		1,0	217	3605	2840	2124	1633	1281	1021	823	670	547	449	368
		1,2	219	3730	3166	2514	1940	1530	1226	995	816	673	558	464
		deflection cm		0,23	0,31	0,41	0,51	0,64	0,77	0,92	1,07	1,25	1,43	1,63

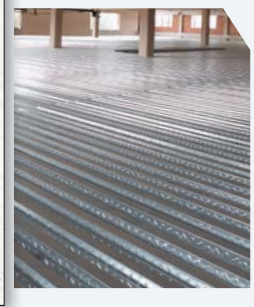
SOLAC® STEEL DECKINGS - The use of the trapezoidal steel sheets in the construction of floors has impacted an innovation of great importance ; the elasticity of the system allows easy use in every condition. The particular marks on the sides of the ribs permit the anchoring of the concrete thus avoiding horizontal slide or vertical detachment. The steel deckings Solac®55 and Solac®75 have achieved the UNI EN 1090-1:2009+A1:2011 Certification referred to the Execution of Structural Steel Components - EXECUTION CLASS UP TO EXC3.

Technical norms for trapezoidal sheets and deckings

- D.M. 09/01/96
- CNR UNI 10011-88
- EUROCODE 3
- CNR 10022-84
- CNR 10016-72
- PART 1.3
- UNI EN 1090-1

PANELS elcom system ITALY



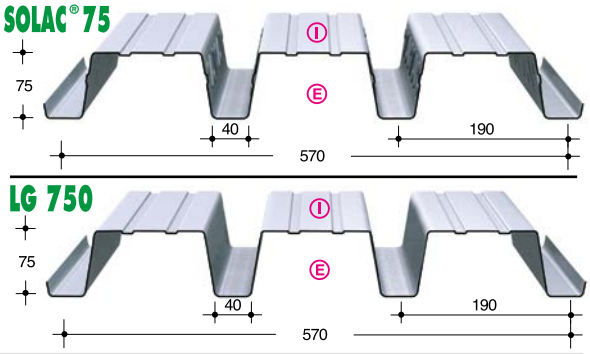


Thickness	**S**	mm	**0,6**	**0,7**	**0,8**	**1,0**	**1,2**
Weight	**P**	kg/m²	8,26	9,64	11,02	13,77	16,53
Section modulus	**W**	cm³/m	19,52	23,07	26,65	33,87	40,37
	Wr	cm³/m	18,77	22,80	26,93	34,62	41,47
Moment of inertia	**J**	cm⁴/m	82,13	99,84	117,99	152,16	184,49

NET LOADS Kg/m² — ℓ span in m

thickness mm	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	2178	1391	963	706	538	424	341	281	235	185	146	117	95
0,7	2574	1644	1139	834	636	501	404	332	277	225	178	143	116
0,8	2974	1899	1316	964	735	579	467	384	321	266	211	169	138
1,0	3779	2414	1672	1225	934	735	593	488	408	344	272	219	178
1,2	4505	2877	1993	1460	1114	877	707	581	486	412	330	266	216
deflection cm	0,16	0,25	0,35	0,48	0,63	0,79	0,98	1,19	1,41	1,63	1,75	1,88	2,00

SOLAC®75 - LG 750



Geometric and static properties

thickness mm	SLAB - 4,5 cm. HT = 12 cm. X cm	J cm⁴/m	W cm³/m	Me kg cm/m
0,6	8,41	359	42,66	59728
0,7	8,23	401	48,77	68284
0,8	8,07	442	54,73	76616
1,0	7,80	516	66,22	92712
1,2	7,58	585	77,27	108173

Net loads in Kg/m²

loading conditions	height cm	thickness mm	weight Kg/m²	ℓ span in m 1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
	SLAB 4,5 cm. Ht = 12 cm.	**0,6**	170	1953	1390	1024	774	594	462	361	282	220	170	128
		0,7	171	2256	1612	1194	908	703	551	435	346	274	217	170
		0,8	173	2551	1829	1360	1038	808	638	508	408	328	263	210
		1,0	175	3121	2246	1679	1290	1011	805	649	527	430	352	288
		1,2	178	3668	2648	1986	1531	1027	966	784	641	528	437	363
		deflection cm		0,19	0,26	0,34	0,44	0,54	0,65	0,77	0,91	1,05	1,21	1,38

Geometric and static properties

thickness mm	SLAB - 5,5 cm. HT = 13 cm. X cm	J cm⁴/m	W cm³/m	Me kg cm/m
0,6	9,11	450	49,40	69161
0,7	8,91	503	56,47	79051
0,8	8,73	553	63,34	88672
1,0	8,42	645	76,58	107219
1,2	8,17	729	89,27	124984

Net loads in Kg/m²

loading conditions	height cm	thickness mm	weight Kg/m²	ℓ span in m 1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
	SLAB 5,5 cm. Ht = 13 cm.	**0,6**	195	2264	1611	1188	898	690	536	420	329	256	198	151
		0,7	196	2614	1869	1385	1053	815	640	506	402	320	253	199
		0,8	198	2955	2119	1576	1203	937	740	590	474	381	307	246
		1,0	200	3565	2600	1944	1494	1172	934	753	612	500	410	336
		1,2	203	3826	3062	2297	1772	1397	1119	908	744	613	508	422
		deflection cm		0,18	0,24	0,32	0,40	0,50	0,60	0,72	0,84	0,97	1,12	1,27

Geometric and static properties

thickness mm	SLAB - 6,5 cm. HT = 14 cm. X cm	J cm⁴/m	W cm³/m	Me kg cm/m
0,6	9,83	556	56,61	79249
0,7	9,60	622	64,72	90604
0,8	9,40	683	72,60	101645
1,0	9,07	796	87,80	122915
1,2	8,79	899	102,33	143264

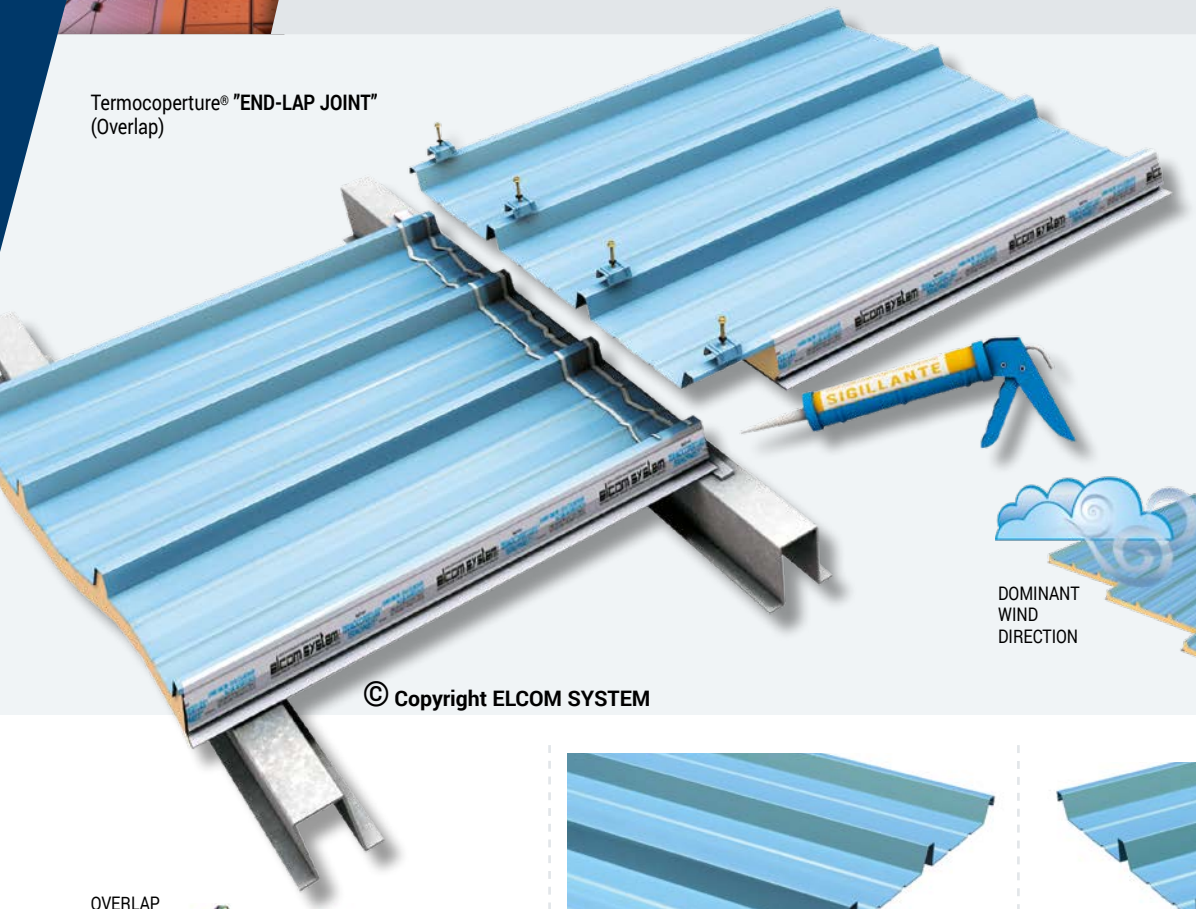
Net loads in Kg/m²

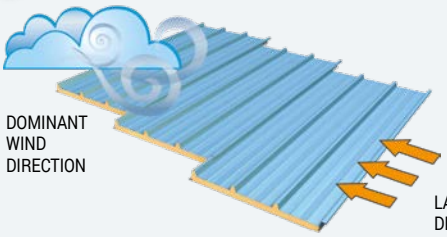
loading conditions	height cm	thickness mm	weight Kg/m²	ℓ span in m 1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
	SLAB 6,5 cm. Ht = 14 cm.	**0,6**	220	2598	1850	1365	1032	794	618	484	380	297	231	176
		0,7	221	3000	2145	1591	1210	938	737	584	465	370	294	232
		0,8	223	3391	2432	1810	1383	1078	852	681	547	441	355	285
		1,0	225	3775	2985	2233	1717	1348	1075	867	706	577	474	389
		1,2	228	4034	3425	2637	2036	1606	1288	1046	857	708	587	488
		deflection cm		0,17	0,23	0,29	0,37	0,46	0,56	0,66	0,78	0,90	1,04	1,18

NOTE - Trapezoidal sheets that derive from the **SOLAC 75** and **SOLAC 55**, are used to work on wide spans both for roof and walls. These sheets, called **LG750** and **LG550**, are without the marks on the sides of the rib.

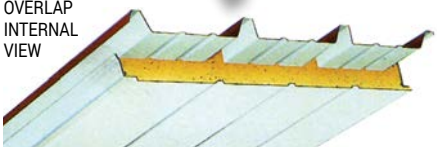
ACCESSORIES AND FINISHINGS

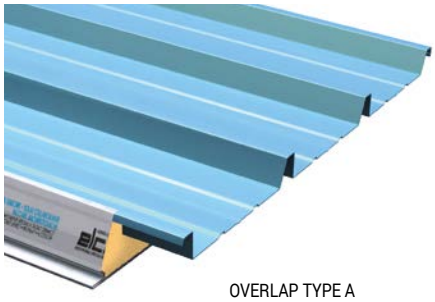
Termocoperture® **"END-LAP JOINT"**
(Overlap)



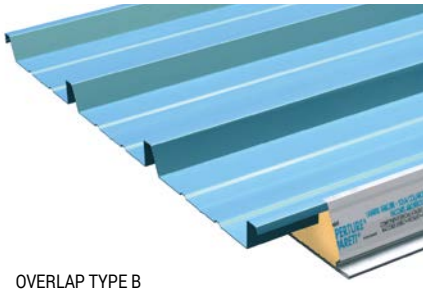


OVERLAP
INTERNAL
VIEW



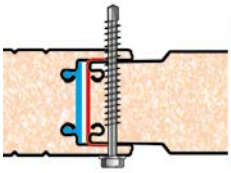


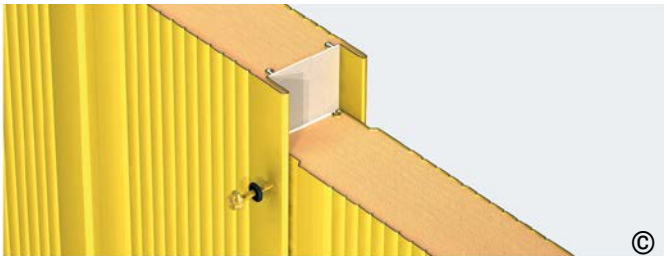
OVERLAP TYPE A



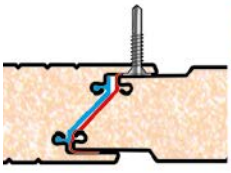
OVERLAP TYPE B

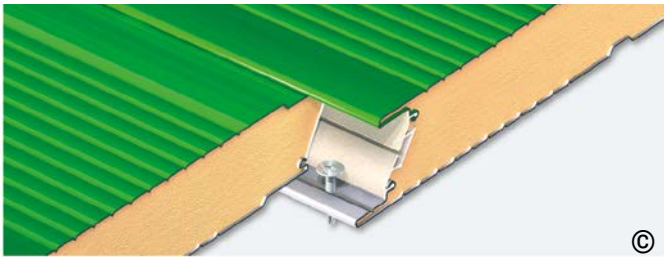
TERMOPARETI® JOINT
VISIBLE FIXING

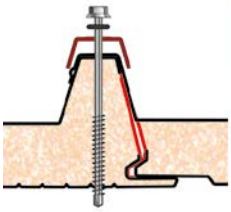




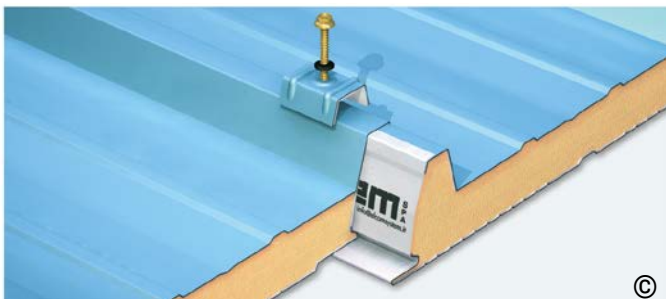
TERMOPARETI® JOINT
HIDDEN FIXING



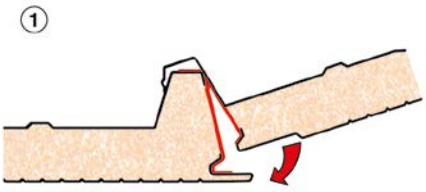


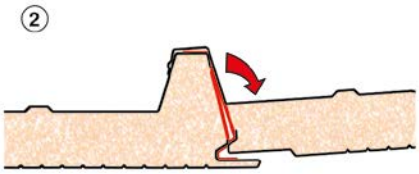


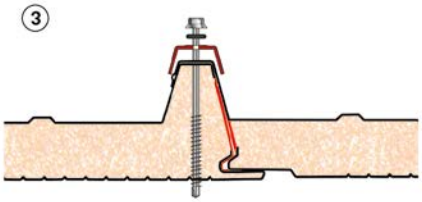
TERMOCOPERTURE®
FIXING DETAIL

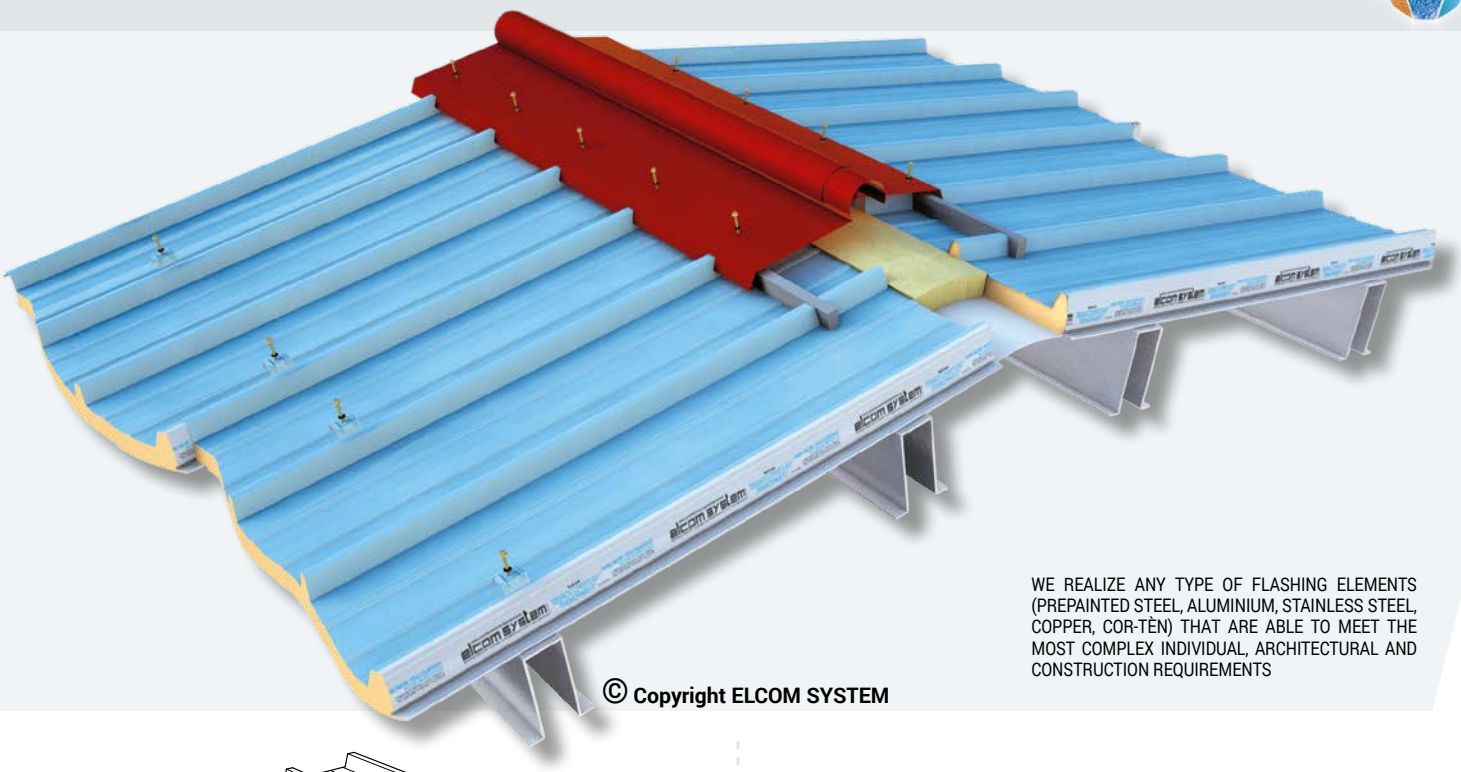


TERMOCOPERTURE® INSTALLATION STEPS

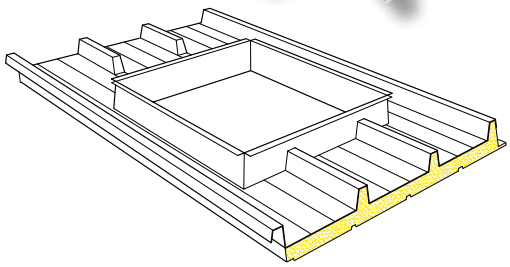




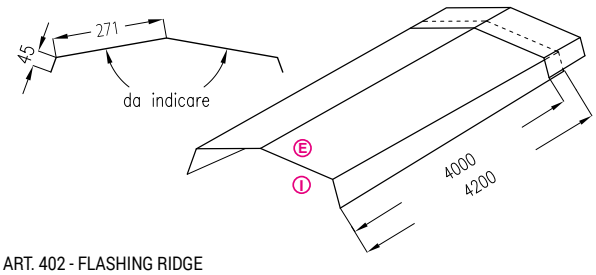




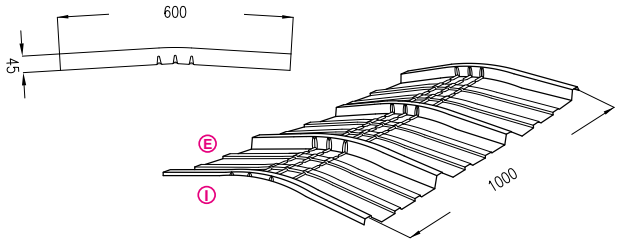
WE REALIZE ANY TYPE OF FLASHING ELEMENTS (PREPAINTED STEEL, ALUMINIUM, STAINLESS STEEL, COPPER, COR-TÈN) THAT ARE ABLE TO MEET THE MOST COMPLEX INDIVIDUAL, ARCHITECTURAL AND CONSTRUCTION REQUIREMENTS



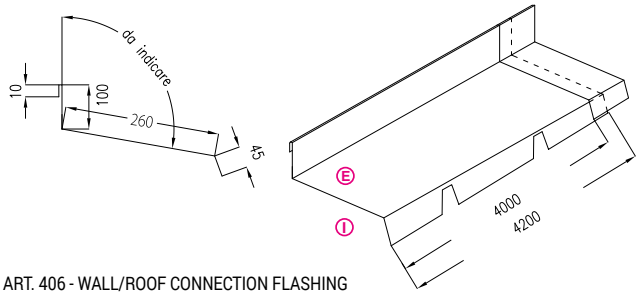
ART. 405 - SPECIAL SKY-LIGHT ELEMENT



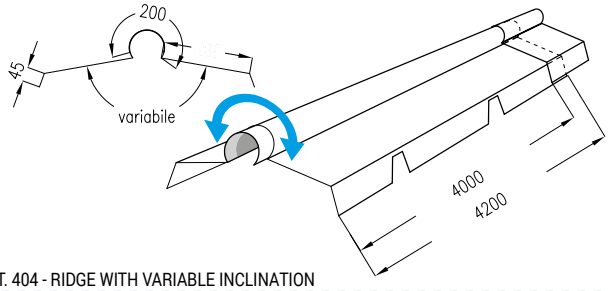
ART. 402 - FLASHING RIDGE



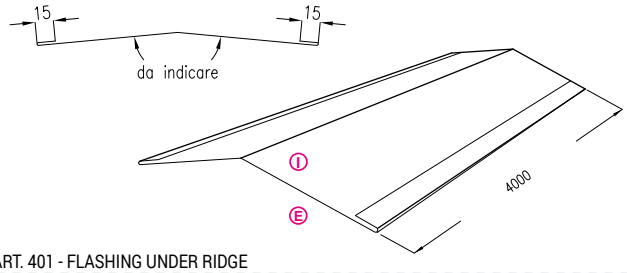
ART. 403 - RIDGE IN PRESSED SHEET



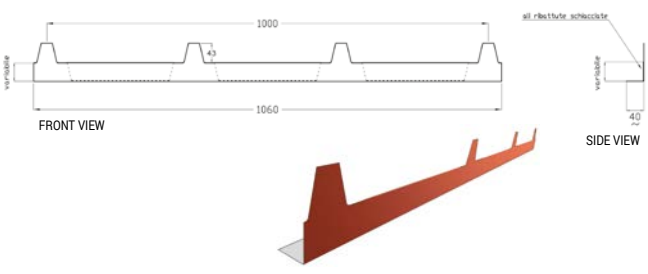
ART. 406 - WALL/ROOF CONNECTION FLASHING



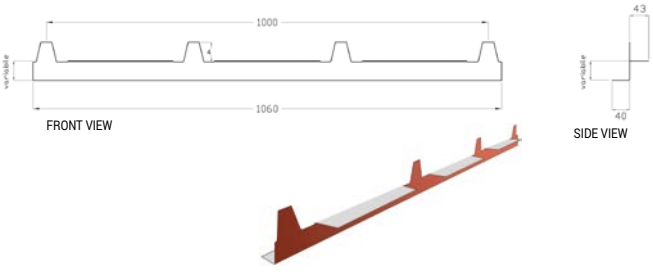
ART. 404 - RIDGE WITH VARIABLE INCLINATION



ART. 401 - FLASHING UNDER RIDGE



ART. 407 - ROOF FRONT END CAP



ART. 408 - ROOF FRONT END CAP - OVERLAP

FIXING ACCESSORIES

CAPS

Shaped caps needed to fix Termocoperture® available in prepainted steel, stainless steel, copper, cor-tèn, prepainted aluminium, aluzinc

SELF-SCREWING STEEL SCREW WITH HEXAGONAL HEAD

Self-screwing screw for Termocoperture® or Termopareti® with visible fixing on steel structure

PVC WASHERS
important part of the fixing group for Termocoperture®

DRILLEX SCREWS

Screw to fix aluminium profile of our Serbond® system.

SELF-DRILLING STEEL SCREW WITH HEXAGONAL HEAD

Self-drilling screw for Termocoperture® or Termopareti® with visible fixing on steel structure

COMPLETE FIXING GROUP

Fixing group for Termocoperture® including screw, washer and cap

SCREW WITH LARGE FLAT HEAD

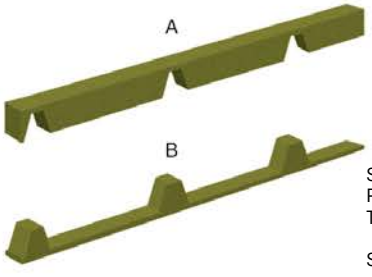
Special screw for hidden fixing of Termopareti®

DIFFERENT RIVETS

Rivets in different colours to fix flashings.

WOOD SCREWS

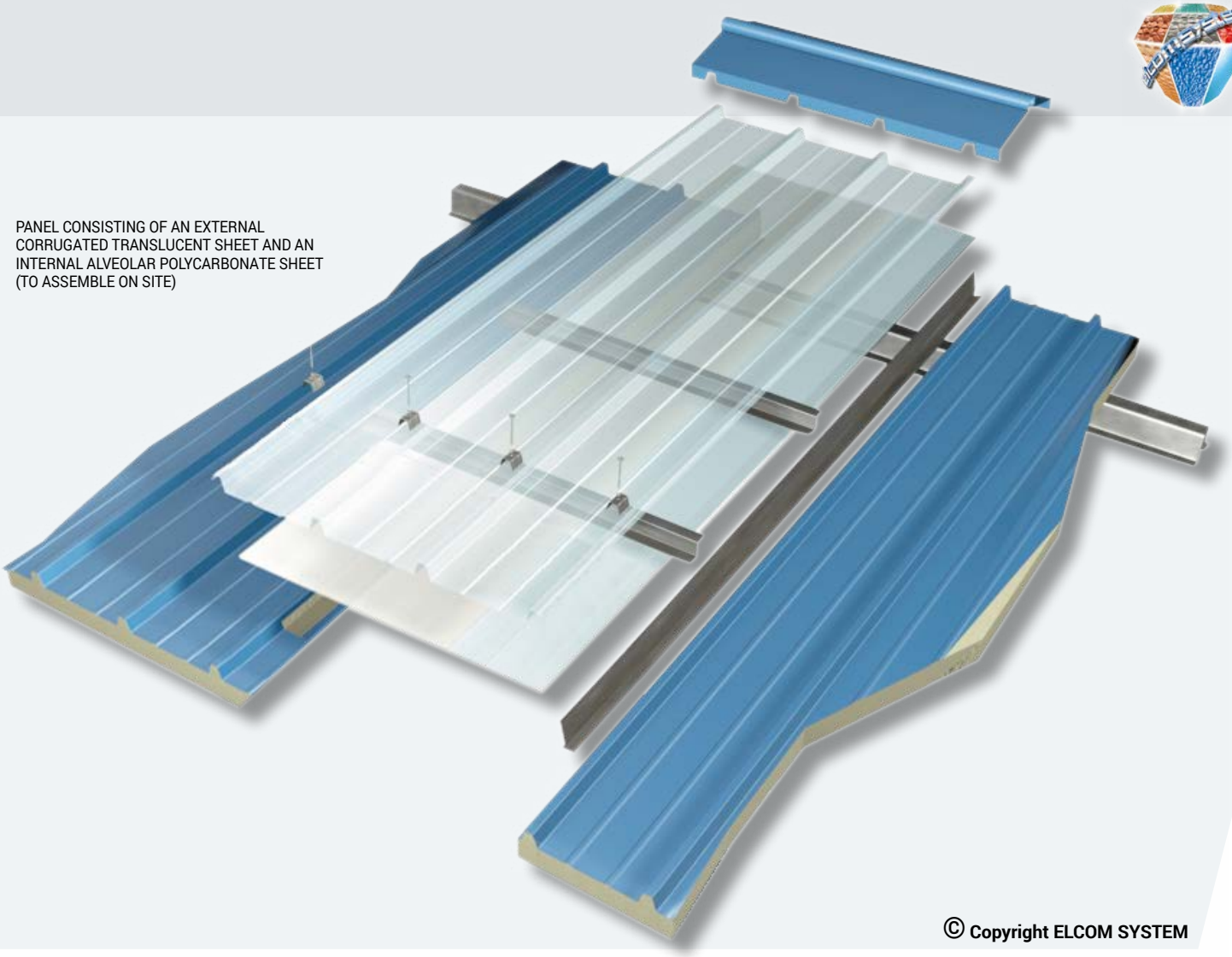
Wood screws to fasten Termocoperture® or Termopareti® with visible fixing on wood structure



SHAPED PACKING IN EXPANDED POLYURETHANE WITH ACRYLIC RESINS TYPE A AND B

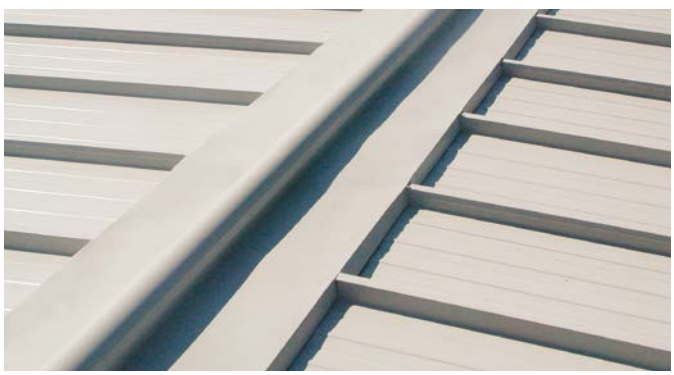
Sealing packing to be installed under the ridge

PANEL CONSISTING OF AN EXTERNAL CORRUGATED TRANSLUCENT SHEET AND AN INTERNAL ALVEOLAR POLYCARBONATE SHEET (TO ASSEMBLE ON SITE)

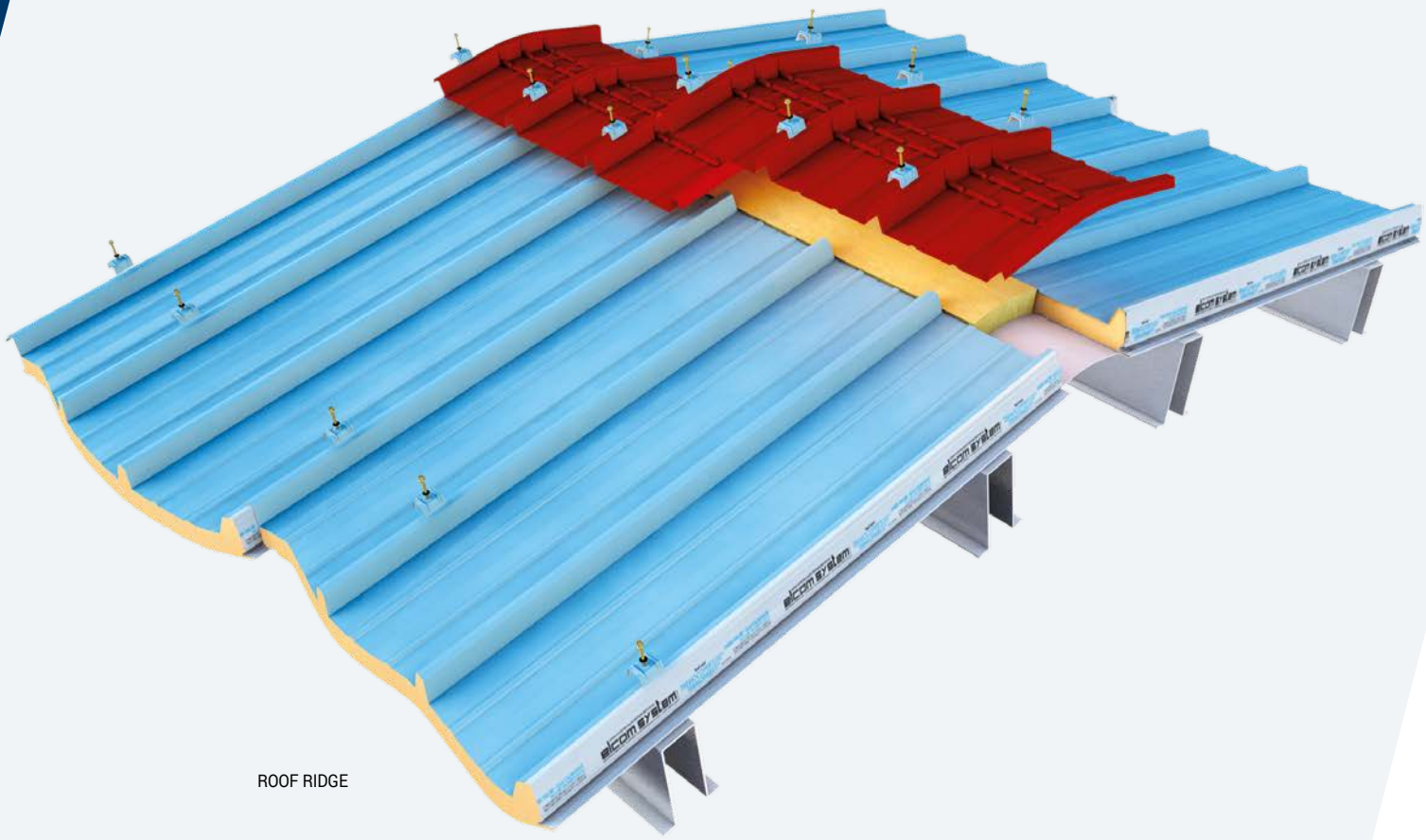


DIFFERENT SPECIAL WINDOWS INTEGRATED ON PANELS TERMOPARETI®

THERMOGRECA



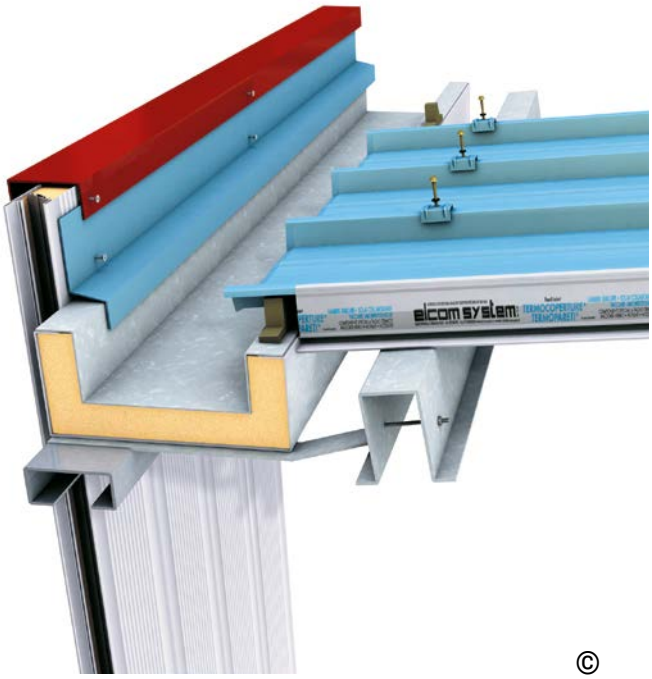
ACCESSORIES AND FINISHINGS



ROOF RIDGE

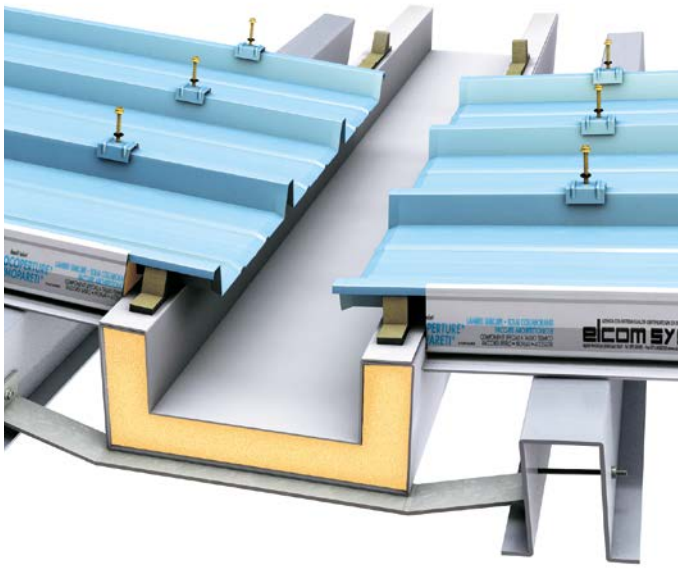
ROOF, WALL, GUTTER CONNECTION (bottom view)

ROOF, WALL, GUTTER CONNECTION (top view)



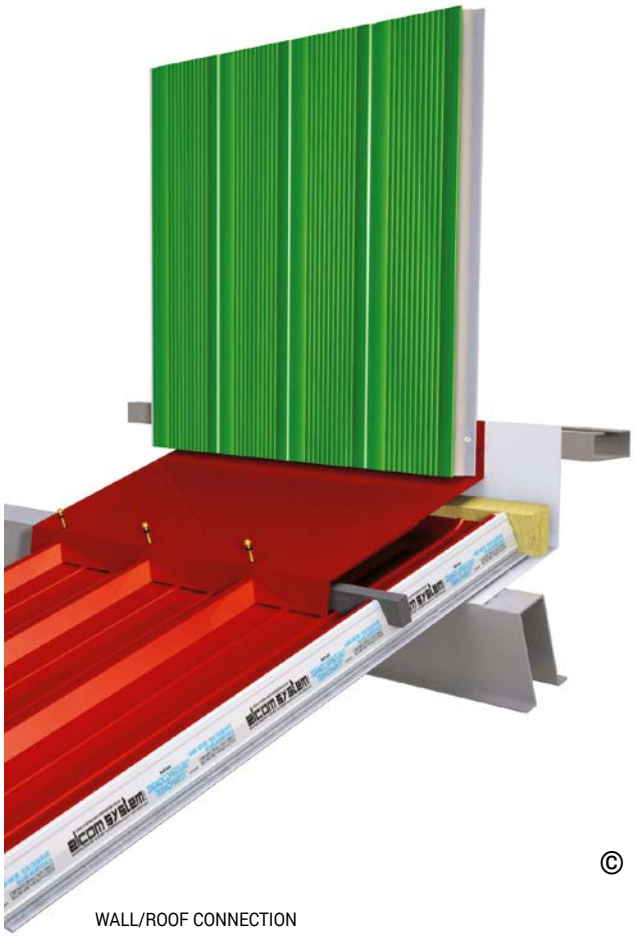
©

CONNECTION WITH INSULATED GUTTER (wall and roof)



©

INSULATED VALLEY GUTTER DETAIL



©

WALL/ROOF CONNECTION

©

WALL / "DECK" ROOF CONNECTION

COLOUR CHART

ES 73
simil RAL 9002
White Grey

ES 02
simil RAL 1014
Cream

Simil RAL 9010
Pure white

ES 24
simil RAL 5024
Middle blue

Simil RAL 1021
Rape yellow

Simil RAL 5010
Gentian blue

Simil RAL 2004
Pure orange

ES 84
simil RAL 3009
Dark red

Simil RAL 3020
Traffic red

ES 26
Light Grey

ES 10
simil RAL 6021
Light green

ES 17
simil RAL 8019
Dark brown

ES 31
simil RAL 7012
Basalt Grey

Simil RAL 6005
Moss green

Simil RAL 9006
White aluminium

Simil RAL 9007
Grey aluminium

Bronze

Stainless steel

EAT

ALUZINC

Cortèn

Copper

Simil wood

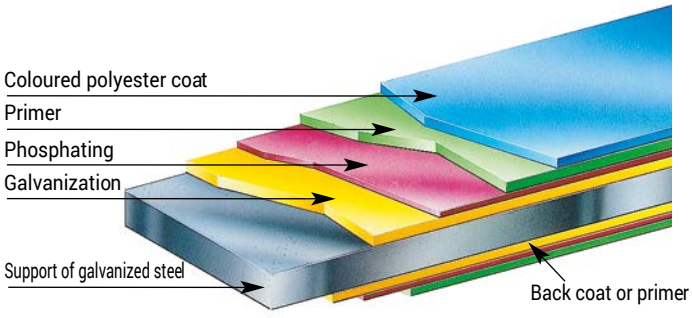
Simil RAL 5025
Pearl gentian blue

Simil RAL 7016
Anthracite grey

Simil RAL 7048
Pearl mouse Grey

Simil RAL 6018
Yellow green

Simil RAL 1036
Pearl gold



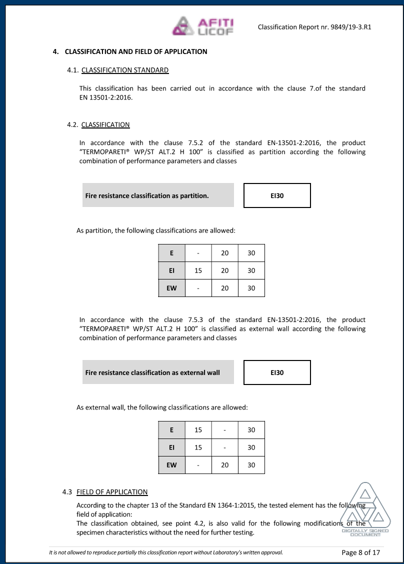
The above colours aren't realized with the original materials, therefore they have to be considered for guidance purposes only

CLASSIFICATION REPORTS

Certificato IT99/0245

ELCOM SYSTEM S.p.A.

ISO 9001:2015



Classification Report nr. 9849/19-3.R1

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. CLASSIFICATION STANDARD

This classification has been carried out in accordance with the clause 7.of the standard EN 13501-2:2016.

4.2. CLASSIFICATION

In accordance with the clause 7.5.2 of the standard EN-13501-2:2016, the product "TERMOPARETI® WP/ST ALT.2 H 100" is classified as partition according the following combination of performance parameters and classes

Fire resistance classification as partition.	EI30

As partition, the following classifications are allowed:

E	-	20	30
EI	15	20	30
EW	-	20	30

In accordance with the clause 7.5.3 of the standard EN-13501-2:2016, the product "TERMOPARETI® WP/ST ALT.2 H 100" is classified as external wall according the following combination of performance parameters and classes

Fire resistance classification as external wall	EI30

As external wall, the following classifications are allowed:

E	15	-	30
EI	15	-	30
EW	-	20	30

4.3 FIELD OF APPLICATION

According to the chapter 13 of the Standard EN 1364-1:2015, the tested element has the following field of application:

The classification obtained, see point 4.2, is also valid for the following modifications of the specimen characteristics without the need for further testing.

It is not allowed to reproduce partially this classification report without Laboratory's written approval. Page 8 of 17

ATTESTAZIONE DI CLASSIFICAZIONE ACL/1188-1189/12/CPD/---

Classification Assessment

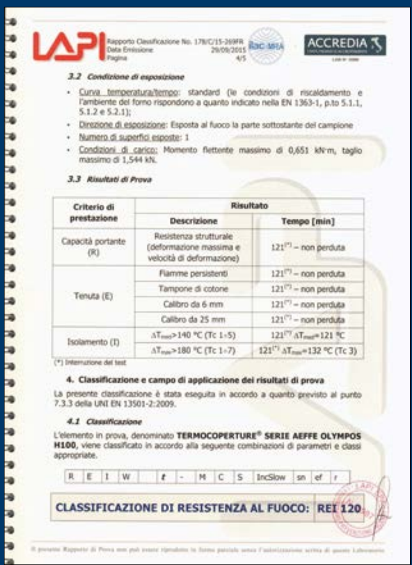
RAPPORTO DI CLASSIFICAZIONE DI REAZIONE AL FUOCO N°. 1188-1189.0AE0083/12

ELCOM SYSTEM S.p.A.

TERMOCOPERTURE® RP/ST 4G H100

CLASSIFICAZIONE / Classification

B_{ROOF} (t3)



3.2 Condizione di esposizione

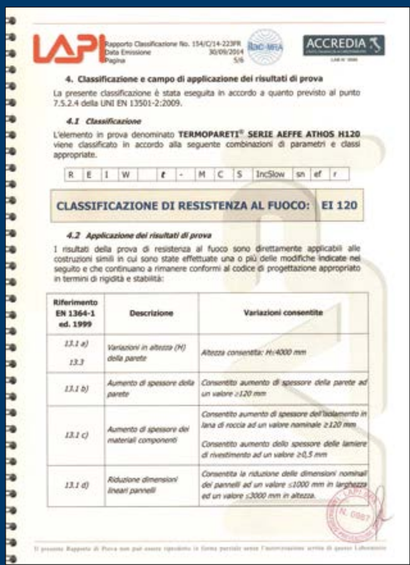
3.3 Risultati di Prova

4. Classificazione e campo di applicazione dei risultati di prova

4.1 Classificazione

L'elemento in prova, denominato TERMOCOPERTURE® SERIE AEFFE OLYMPOS H100, viene classificato in accordo alla seguente combinazioni di parametri e classi appropriate.

CLASSIFICAZIONE DI RESISTENZA AL FUOCO: REI 120



4. Classificazione e campo di applicazione dei risultati di prova

4.1 Classificazione

L'elemento in prova denominato TERMOPARETI® SERIE AEFFE ATHOS H120 viene classificato in accordo alla seguente combinazioni di parametri e classi appropriate.

CLASSIFICAZIONE DI RESISTENZA AL FUOCO: EI 120

4.2 Applicazione dei risultati di prova

4. Classificazione e campo di applicazione dei risultati di prova

4.1 Classificazione

L'elemento in prova denominato TERMOPARETI® SERIE AEFFE ATHOS H100 viene classificato in accordo alla seguente combinazioni di parametri e classi appropriate.

CLASSIFICAZIONE DI RESISTENZA AL FUOCO: EI 60 E 90

4.2 Applicazione dei risultati di prova

Classification Report nr 9153/15-8

3.- TEST REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION.

4.- CLASSIFICATION AND FIELD OF APPLICATION

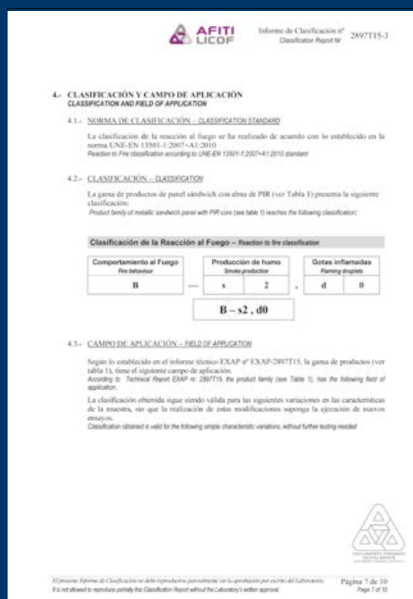
Fire Resistance Classification EI 20 E 60

Classification Report nr. 9154/15-4

4.- CLASSIFICATION AND FIELD OF APPLICATION

Fire Resistance Classification REI 20 RE 30

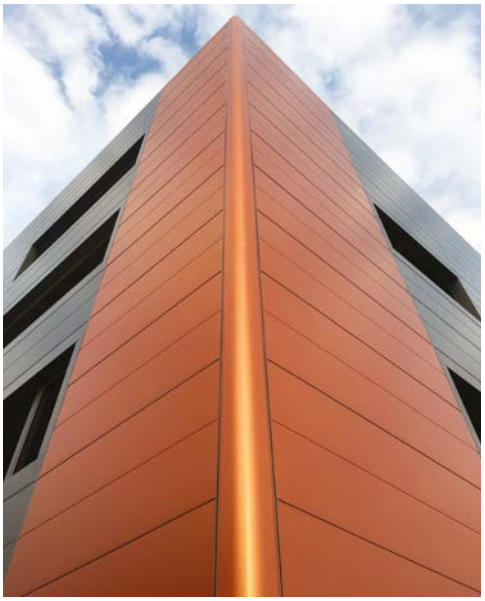
5.- LIMITATIONS



4.- CLASIFICACIÓN Y CAMPO DE APLICACIÓN

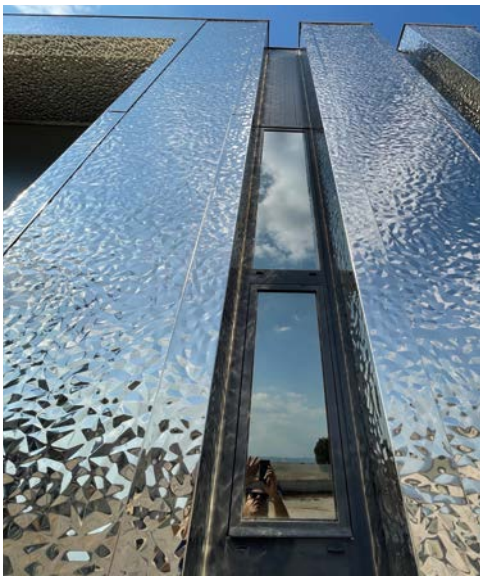
B – s2 , d0


AB
AB

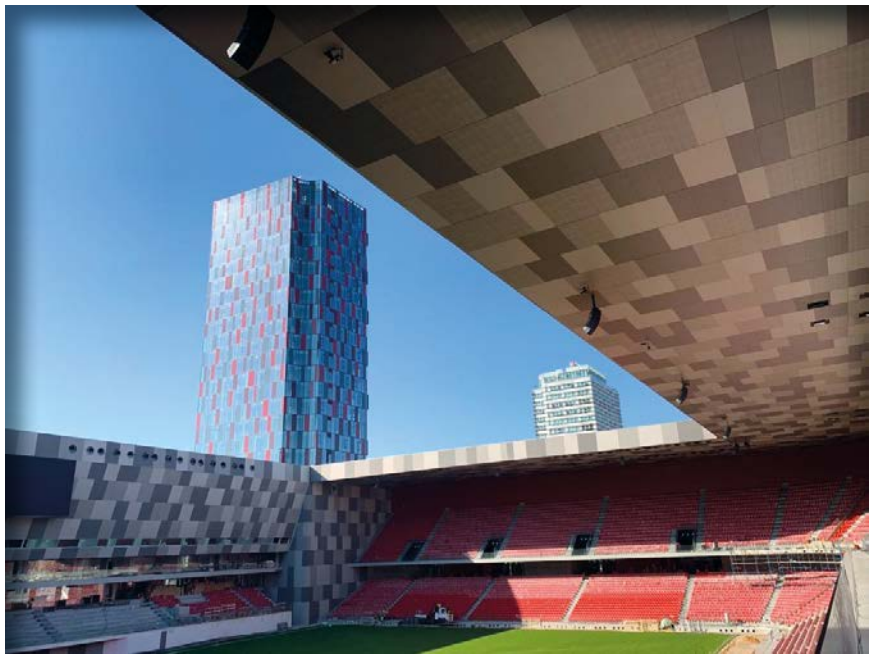


PROJECTS


JUMBO
↓ Είσοδος ↓



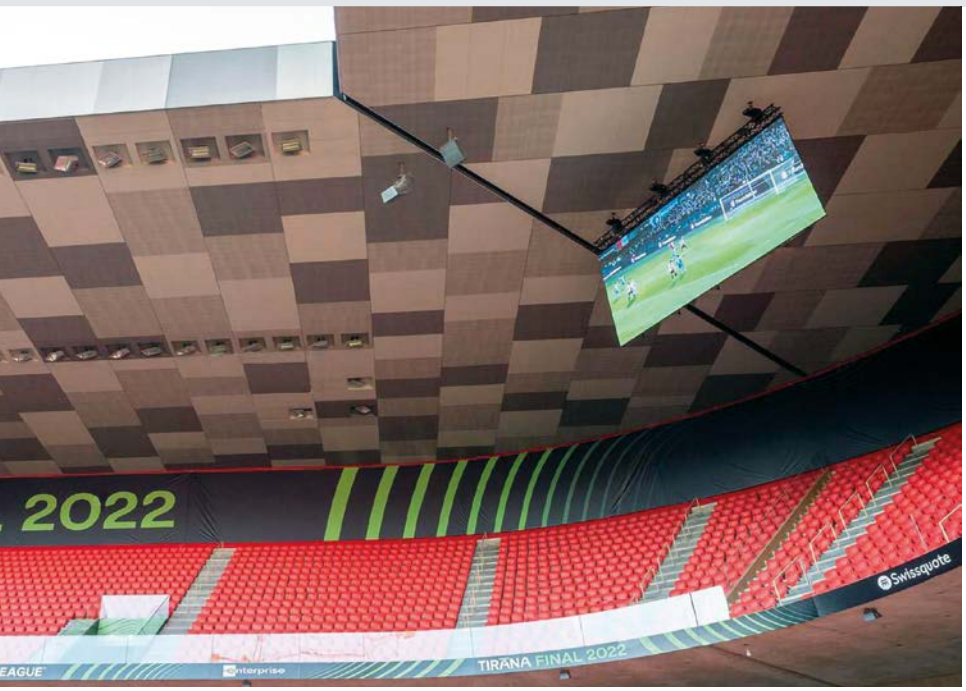
PROJECTS



PROJECTS

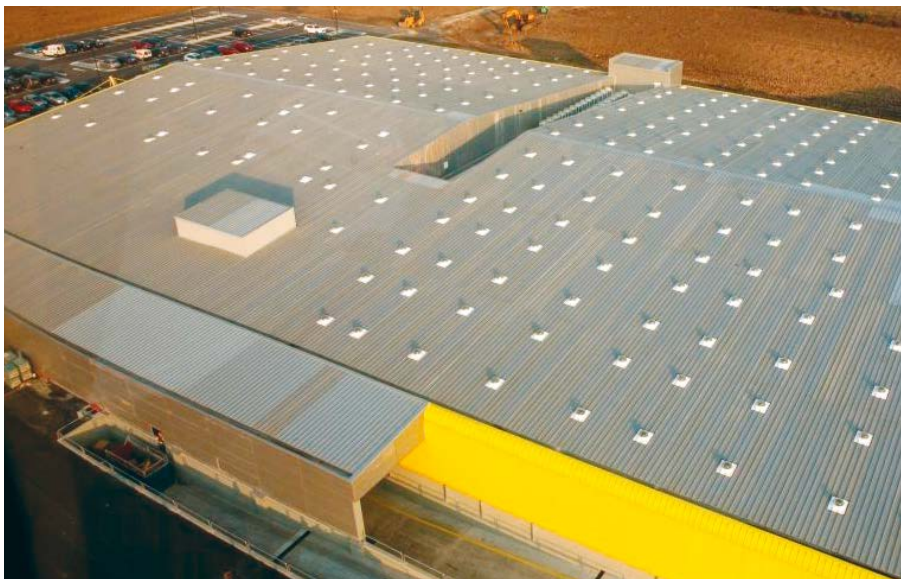

TIRANA FINAL
UEFA EUROPA CONFERENCE


HOTEL & SPA


2022
TIRANA FINAL 2022
Swissquote


FILE DA 2 A 6
MAX 10 PERSONE A CORSA
ROW 2 TO 6

PROJECTS



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