WORLDWIDE LEADERS

40

4.205

YEARS OF EXPERIENCE

CUSTOMERS PER YEAR

6

COMPANIES

9

PRODUCTION AND COMMERCIAL FACILITIES

629

EMPLOYEES
THROUGHOUT THE WORLD

100%

298

ITALIAN DESIGN

MILLION EUROS TURNOVER

MORE VALUE FOR YOUR PROJECT



A SOLUTION FOR EVERY NEED

thermal and sound insulation, sturdiness, airtightness, fire resistance; in addition to high technology and creative freedom. With the widest range of insulated panels for walls and roofs, Isopan is able to meet every need: aesthetic, functional and productive for any type of building.



MORE EFFICIENCY

The competence of a team of constantly updated professionals and highly specialised technicians will guide you in choosing the solution most suited for the thermal insulation of your building.



GREATER INNOVATION

Proven knowledge of the market, in-depth research on materials, continuous updates on the main trends of the sector and on reference standards allow us to create cutting-edge solutions with an innovative design which combine aesthetics and functionality.



GREATER QUALITY

The quality certification is Isopan's first commitment towards its customers. We only make use of selected suppliers, capable of assuring materials of proven reliability in full compliance with international regulations.



GREATER SAFETY

Thanks to their specific technical specifications, Isopan panels contribute to protecting buildings against fire, preventing it from spreading and limiting its extension (passive protection).



GREATER SUSTAINABILITY

Isopan promotes sustainable construction by providing solutions for building redevelopment, reducing consumption and increasing energy and resource savings. Our panels contribute to obtaining the BREEAM® and LEED certification for buildings and are manufactured in plants powered by renewable energy sources.



Unique and exclusive Solutions and Advantages



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SOLUTIONS FOR FLAT ROOFS



THE FLAT ROOF SOLUTIONS by Isopan include prefabricated solutions and systems assembled on site, designed to make installation operations easy, fast and safe. Resistance to external weathering, waterproofness and durability over time are ensured by the use of high quality components such as pre-coupled sheets with synthetic membranes, accessories and supplementary systems.

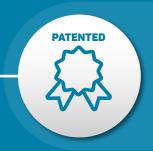
* ISOPAN GREEN ROOF has obtained the Declare Label, the label created by the International Living Future Institute (ILFI) and the Living Future Europe Initiative (LFEI), which certifies the safety of the materials used in products for the European construction market.



WATERPROOFNESS RESISTANCE TO UV RAYS

SYNTHETIC MEMBRANES

The components used contribute to effectively counteract the overheating of roofs in summer, thanks to the use of synthetic membranes with high heat-reflecting properties.



TECHNOLOGICAL AND PATENTED SYSTEMS

PRE-COUPLED SYNTHETIC MEMBRANES

The Isopan pre-coupled sheets, featuring perfect adhesion between the synthetic membrane and the metal layer, offer many advantages, including greater resistance, flatness and absence of interstitial condensation.



GREATER VALUE AND GREATER SUSTAINABILITY

COOL ROOF AND GREEN ROOF*

FlatRoof systems can be integrated with various types of green roofs, specially designed by Isopan with the aim of offering effective solutions for all design requirements.



THERMAL INSULATION AND FAST INSTALLATION

ISODECK PVSTEEL RANGE

Thanks to the use of polyurethane foams or mineral rock wool, any design and performance requirement can be met.



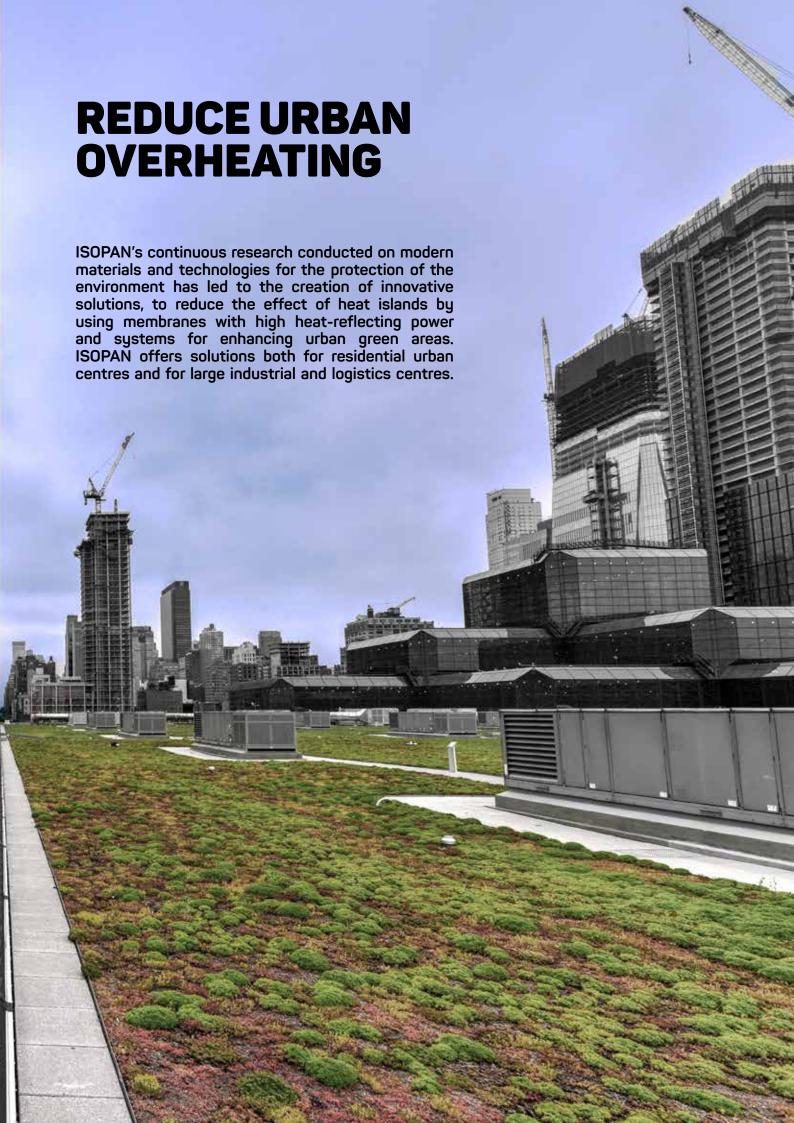
ISODECK LG PRODUCTS AND SOLUTIONS

The FlatRoof solutions by Isopan are designed to obtain roofs featuring high load-bearing capacity, even in the presence of large spans between the load-bearing structural elements.

HEAT ISLANDS

In urban and industrial centres there is an increase in local temperatures compared to suburban areas. This microclimatic phenomenon is called heat island. The cause of heat islands is to be found in intense urbanisation.





COOL ROOF

The **COOL ROOF** roofing solutions feature high solar reflectance and thermal emissivity properties. This means that they are able to reflect incident solar radiation and at the same time emit infrared thermal energy.

The **COOL ROOF** solutions, therefore, feature a low surface temperature, even under direct sunlight.



LEED®

LEED (Leadership in Energy and Environmental Design) is a system used for the classification of buildings in terms of ecosustainability, environmental impact and energy performance, developed in the United States in the early '90s and introduced in Italy by the Green Building Council Italia in 2008.

The **LEED** certification refers to the entire building as a whole and is based on the attribution of credits grouped into different categories.

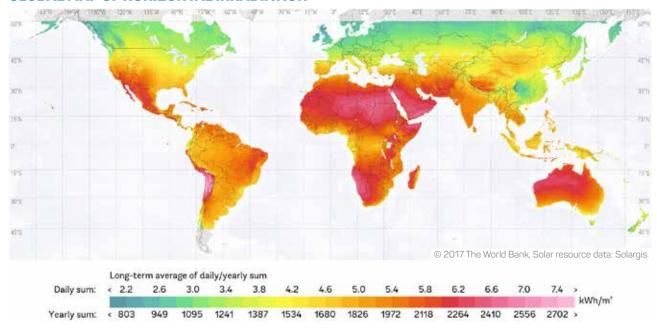
In particular, with regard to the hedges "COOL ROOF" roofing solutions, credits can be attributed in the following categories:

- Category 1: Site sustainability
- Credit 7.2: Roof heat island effect

To obtain the credit due to the reduction of the heat island effect, the following is necessaru:

- Build roofs with SRI ≥ 78 (for roofs with slope ≤15%)
- Build roofs with SRI ≥ 29 (for roofs with slope >15%)

GLOBAL MAP OF HORIZONTAL IRRADIATION



COOL ROOF ADVANTAGES

The strengths of a cool roof are many:

- IMPROVEMENT OF THERMAL COMFORT inside the building in the summer season
- S ENERGY SAVINGS for the air conditioning of the building
- IMPROVEMENT OF THE ENERGY EFFICIENCY of the entire building envelope
- REDUCTION OF THE HEAT ISLAND EFFECT
- GREATER DIMENSIONAL STABILITY of the substructures and the layers making up the roof solution, due to the reduction of the effects of high temperatures (less movement, expansion, cracking, etc.)
- **INCREASED DURABILITY OVER TIME** of the waterproof roof membranes, as the action of natural ageing induced by heat is reduced by the low surface temperature.

COOL ROOF

SOLAR REFLECTANCE

Solar reflectance measures the tendency of a material/ surface to reflect solar radiation. A surface with high solar reflectance is, therefore, able to reflect most of the incident solar radiation and maintains a lower temperature. This value is particularly high for light colours, especially white. The reflectance is expressed as a percentage (%) or by defining a value ranging between 0 and 1.

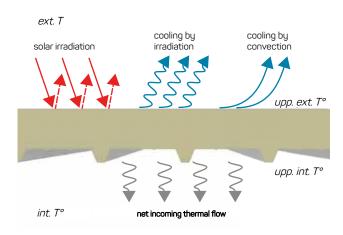
SRI VALUE (SOLAR REFLECTANCE INDEX)

The Solar Reflectance Index (SRI) measures the combined impact between the reflectance and emissivity properties of a material/surface. The parameter is measured according to the ASTM E1980 standard and is calculated according to three wind conditions (low, medium, high). The SRI index is expressed as a percentage (%); the higher its value, the lower the surface temperature of the roof under solar radiation.

ISODAN SDI* VALUE

IJOPAN JKI	VALUE	
	PVC-P	TP0
Solar Reflectance Index: SRI (%)	116.2 low wind 114.7 medium wind 113.9 high wind	84.3 low wind 85.3 medium wind 85.9 high wind
Solar Reflectance: SR	0.904	0.696

^{*} Values obtained by testing samples at the EELAB laboratory of the "Enzo Ferrari" Department of Engineering of the University of Modena and Reggio Emilia





SOLUTIONS

GreenROOF

The installation of a Green Roof on buildings to isolate the structure is a traditional technique from the Nordic countries, which has now become one of the main elements of sustainable construction worldwide.

In fact, integrating urban buildings with green roofs is not only an operation that affects the quality of the air and the landscape, but also a way to transform buildings by giving them greater energy efficiency.



DECLARE is the label created by the International Living Future Institute (ILFI) and the Living Future Europe Initiative (LFEI), which certifies the safety of the materials used in products for the European construction market. Each product bearing the **DECLARE** label declares that it does not contain any "ingredients" included in the Red List, i.e. the list of the most dangerous materials in the construction industry. Isopan is the first company in Italy to have obtained the Declare label for two of its innovative products: LEAF and **GREEN ROOF**.

ADVANTAGES



ENHANCING THE BUILDING

Using a green roof improves the architectural appearance, and the functionality of the available areas increases. As a result, it acts as a strong distinctive and enhancement element of the building.



HIGH WATER RETENTION

The high water storage capacity of the FSD elements and the substrates allow up to 80% of the annual rainfall to be retained on the roof, thereby reducing the flow of water towards the drains. The efficiency of the systems is verified and certified according to the methods set forth in UNI 11235/15 Standards.



THERMAL INSULATION AND ENERGY SAVING

The green roof represents technology with the best benefit-cost ratio to reduce roof temperatures, with reductions of up to 40°C, as well as to produce a greater phase shift and damping of the thermal flow.



ECOCLIMATE IMPROVEMENT AND ENVIRONMENTAL IMPACT

A green roof is considered a valid tool to limit the "urban heat island" phenomenon and to obtain a climatic improvement of the entire urban ecosystem. It also safeguards the biodiversity of the biological mass that can fail due to cementation.



DUST RETENTION

Green roofs lead to a reduction in fine dust in the air thanks to the properties of the vegetative mass to capture the particles, retaining them and then releasing them on the substrate, where they lose their hazardous effect. A green roof also decreases the circulation of fine dust in the atmosphere, thereby reducing overheating of the surfaces and decreasing the formation of updrafts.



ROOF PROTECTION

A green roof protects the thermal insulation and waterproofing solutions, extending their duration and preserving their functionality, as they protect them from U.V. rays, from atmospheric events, and from chemical agents.



USABLE SURFACES

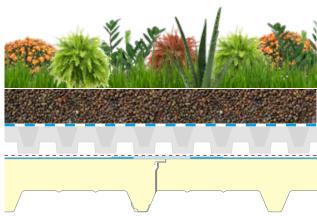
The exploitation of unused areas is one of the most interesting aspects linked to using a green roof. Recreating spaces to increase the quality of life is an increasingly important prerogative in modern life, and Isopan Greenroof solutions provide great design freedom. Green also allows users to enjoy enhanced psychophysical well-being.

The ISOPAN GREENROOF roofing solutions consist in the integration of the green roof system on flat roofs made with prefabricated sandwich panels or with solutions assembled on site.

Waterproofing is ensured by the synthetic membranes made of **PVC** or **TPO**. Thermal insulation is ensured by the insulating core in polyurethane foam or mineral wool.

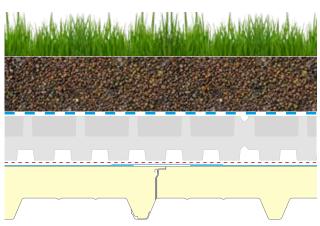
GREENROOF ESTENSIVO

Suitable for large buildings, sloping roofs and existing roofs due to their low substrate thickness (approx. 3 to 15 cm), with a maximum weight of 100 Kg/m^2 ; the colonising vegetation is very resistant (mosses, grasses, succulents) and does not require frequent maintenance (watered only in case of prolonged drought). The height of the plants does not exceed 25 cm and the combination of several varieties gives these roofs a multi-coloured appearance that varies with the seasons. This type of roof cannot be walked on and cannot be cultivated.



GREENROOF INTENSIVO

Suitable for small and medium surfaces. The thickness of the substrate is greater (approx. 15 to 30 cm) and the overload weight is between 120 and 350 kg/m² (at maximum capacity in water). It allows the vegetation to have a strong root and aerial horticulture type such as grasses, turf, lively plants or shrubs. Moderate maintenance and regular watering are necessary. Comparable to traditional gardens, it is possible to sow or cultivate all types of vegetation.

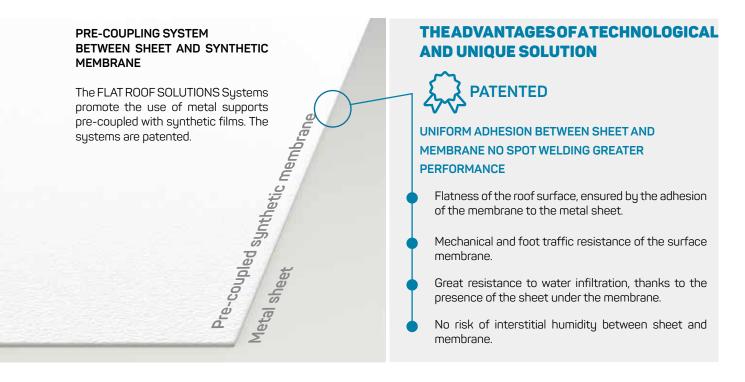






For technical information on usage and for the technical specifications, please refer to the documentation available on the www.isopan.com website.

MEMBRANES AND SYNTHETIC FACINGS



FLAT ROOF SOLUTIONS by Isopan involve the use of systemic membranes of various types, tested and certified according to the strictest international standards. The membranes used feature high chemical and physical resistance properties, durability over time and excellent waterproof characteristics.

POLYVINYLCHLORIDE - PVC

PVC-P waterproof membranes are products that have been extensively tested and certified according to national and international standards, such as the BBA Certificate. They can last up to 40 years while maintaining excellent hydraulic seal, mechanical and chemical resistance characteristics.

THERMOPLASTIC POLYOLEFINS - TPO

TPO (synthetic material also known as polyolefins) waterproof membranes are products that have been extensively tested and certified according to national and international standards, such as the BBA Certificate. They can last up to 30 years while maintaining their functional, physical and chemical characteristics.

SUSTAINABILITY

The durability of PVC-P waterproof membranes, together with the possibility of recycling, makes it one of the most sustainable products ever. Modern membranes have a positive relationship between the resources used and the performance provided throughout its service life.

The absence of halogens and the sole presence of carbon and hydrogen in the polymer chain of the TPO membranes determine their innate ecological vocation. The chemical composition of the product prevents the release of harmful emissions during welding operations. The TPO membranes used by ISOPAN are equipped with EPD, featuring the quantification of environmental performance.

RESISTANCE

PVC-P is supplied with the so-called Solar Shield Technology, a special coating that protects the outer surface of the membrane from UV rays which are largely reflected, better resisting extreme hot-cold cycles, therefore slowing down the ageing process. Surface temperatures remain low. They can be used in any climatic conditions.

The membrane is made with a reflective treatment on the external face, to enhance the reflectance and emissivity characteristics. A special coating ("cool pigment") maintains low temperatures on the external surface of the membrane, which is protected from most of the UV rays. The ageing processes due to the extreme hot-cold cycles are therefore slowed down.

INSULATING ELEMENT: FEATURES AND PERFORMANCE

POLYURETHANE FOAM

MINERAL ROCK WOOL



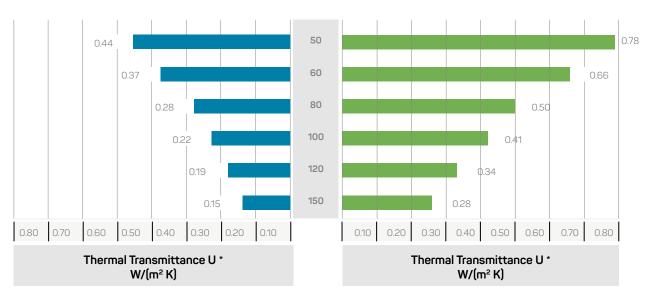


Standard closed-cell polyurethane foams. Foaming agent used N-pentane (in accordance with the Montreal protocol).

Mineral wool insulators ensure excellent heat-insulating and sound-absorbing characteristics, while the fire-retardant properties of the material prevent excessive heat from affecting the structure.

THERMAL TRANSMITTANCE*

According to EN 14509 A.10



^{*} Values referred to the ISODECK PVSTEEL PU sandwich panel

BEHAVIOUR IN CASE OF FIRE*

According to EN 13501-1, EN 13501-2, EN 14509 A.10



Fire Reaction Class
C s3 d0*

Fire Resistance REI 15*



Fire Reaction Class
B s1 d0*

Fire Resistance REI 120* Fire Resistance REI 20**

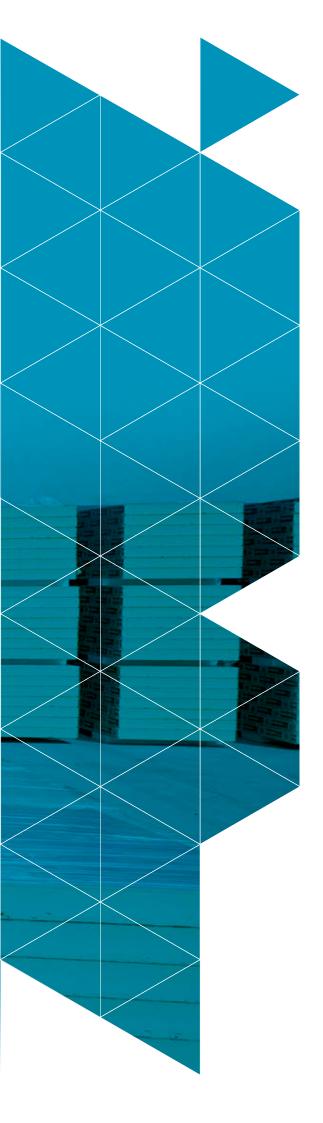
^{*} Values referred to the ISODECK PVSTEEL MW sandwich panel

^{*} Values referred to the ISODECK PVSTEEL PU sandwich panel

^{*} Values referred to the ISODECK PVSTEEL MW sandwich panel

^{**} Values referred to the ISODECK LG 153 MW 100 System







2.1

ISODEK SYNTH

Page 19

2.2

ISODECK PVSTEEL PU - MW - FONO

Page 23

2.3

FLATROOF SOLUTIONS

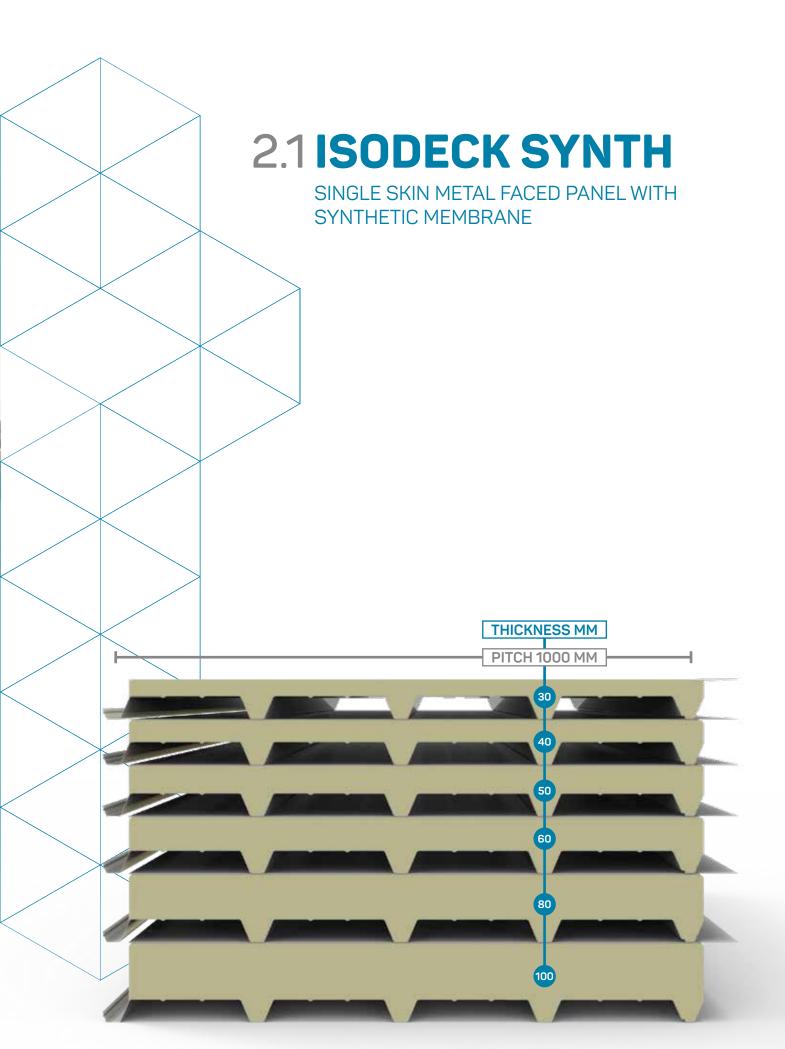
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2.4

COMPATIBLE SYSTEMS

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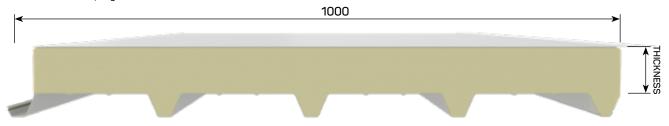




2.1 Isodeck Synth

Description

Panel designed for the construction of flat or low-slope roofs, featuring excellent waterproofing properties and, at the same time, high thermal insulation values. The great versatility is ensured by the lightness of the panel and the speed of installation. It is a panel with corrugated metal sheet on the inside and a synthetic membrane (in PVC or TPO) on the outside. The insulating mass consists of polyurethane foam.



PANEL WEIGHT

CHEETT	IIIOVAIECC —	NOMINAL PANEL THICKNESS mm										
SHEET	HICKNESS —	30	40	50	60	80	100					
0.6	kg/m²	9.0	9.4	9.8	10.2	11.0	11.8					
0.7	kg/m²	10.0	10.4	10.8	11.2	12.0	12.8					
0.8	kg/m²	10.8	11.4	11.8	12.2	13.0	13.8					

THERMAL INSULATION - According to EN 14509 A.10

	NOMINAL PANEL THICKNESS mm										
U -	30	40	50	60	80	100					
W/m² K	0.76	0.57	0.45	0.38	0.28	0.22					
kcal/m²h°C	0.61	0.47	0.38	0.32	0.24	0.20					

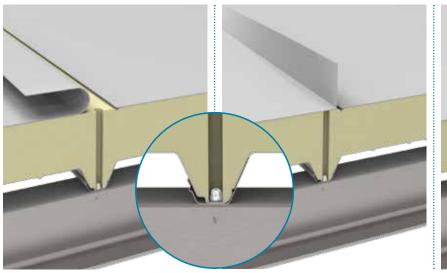
CHARACTERISTICS

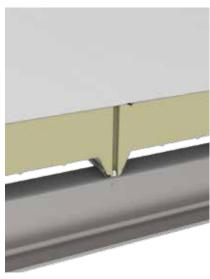
- · Internal face: pre-painted galvanised steel (EN 10346)
- · Insulating mass: polyurethane foam
- · External face: sheet coated with synthetic membrane

ADVANTAGES

- · Versatile solution
- · Energy performance ensured by the synthetic membrane
- · Lightweight and easy to install product

FASTENING - BRIDGING







For technical information on panel usage and for the technical specifications of each product, please consult the Technical Manual available on the website www.isopan.com.

2.1 Isodeck Synth

Technical Data

OVERLOADS - SPANS

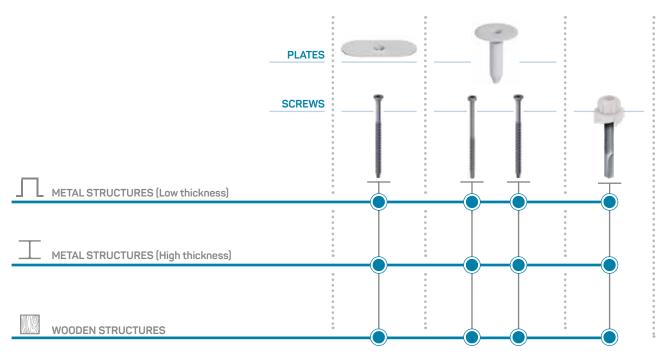
				LOAD TA	ABLES - STE	EL SHEETS						
EVENLY DISTRIBUTED LOAD	SHEET THICKNESS mi		(NESS mm			SHE	S mm	mm				
	0.5	0.6	0.7	0.8	1.0	0.5	0.6	0.7	0.8	1.0		
	m² MAXIMUM SPAN cm						MAXIMUM SPAN cm					
60	245	260	275	290	315	275	295	310	325	350		
80	220*	235	250	265	285	250*	270	285	295	320		
100	200*	220*	235	245	265	220*	245*	260	275	295		
120	180*	200*	215*	230	250	200*	225*	240*	260	280		
140	165*	185*	200*	215*	235	185*	205*	225*	240*	265		
160	155*	170*	185*	200*	225	175*	195*	210*	225*	255		
180	145*	160*	175*	190*	215*	165*	180*	200*	210*	240*		
200	140*	155*	165*	180*	200*	155*	170*	185*	200*	225*		

The calculation only takes into account the snow load; therefore, it is to be considered indicative. The values shown in the capacity tables do not take into account the thermal load.

DIMENSIONAL TOLERANCES

	DEVIATIONS mm	
Length		± 10 mm
Useful width		± 5 mm
Thickness		± 2 mm
Orthometry and recta	ingularity	± 3 mm
Length	L≤3 m L>3 m	± 5 mm ± 10 mm
Thickness	D ≤ 100 mm D > 100 mm	± 2 mm ± 2 %

SCREWS AND FASTENERS

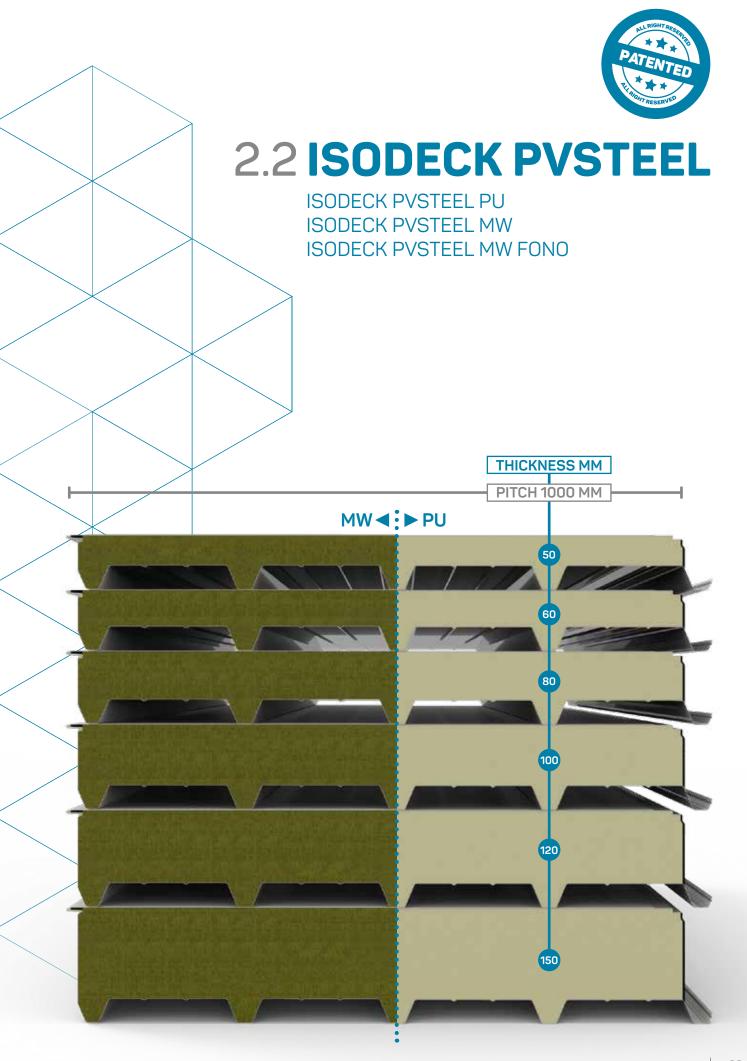




For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.

^{*}Values with stress limitations.

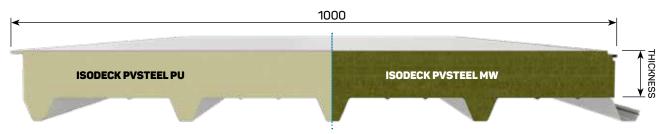




2.2 ISODECK PVSTEEL range

Description

Panel designed for the construction of flat or low-slope roofs, with corrugated metal sheet on the inside and a pre-coupled sheet with synthetic membrane (in PVC or TPO) on the outside. The insulating mass can consist of polyurethane foam (ISODECK PVSTEEL PU) or mineral rock wool (ISODECK PVSTEEL MW).



ISODECK PVSTEEL PU - Isolamento in Poliuretano

ISODECK PVSTEEL MW - Isolamento in Lana minerale

PANELS WEIGHT [kg/m²]

	NOMINAL PANEL THICKNESS mm					INTERNA SHEET			NOMINA	L PANEL	.THICK	IESS mn	n	
50	60	80	100	120	150	THICKNESS	50	60	80	100	120	150	170	200
15,2	15,6	16,4	17,2	18,0	19,2	0,6 mm	18,4	19,4	21,4	23,4	25,4	28,4	30,4	33,4
17,1	17,5	18,3	19,1	19,9	21,1	0,8 mm	20,4	21,4	23,4	25,4	27,4	30,4	32,4	35,4

THERMAL INSULATION - EN 14509 A.10

	NOMI	NAL PANEI	THICKNES	SS mm			NOMINAL PANEL THICKNESS mm								
50	60	80	100	120	150	U	50	60	80	100	120	150	170	200	
0,44	0,37	0,28	0,22	0,19	0,15	W/m² K	0,78	0,66	0,50	0,40	0,34	0,27	0,24	0,20	
0,38	0,32	0,24	0,19	0,16	0,13	kcal/m² h °C	0,67	0,57	0,43	0,34	0,29	0,23	0,21	0,17	

BEHAVIOUR IN CASE OF FIRE* - According to EN 13501 (parts 1 and 2) and EN 14509

C s3 d0	511	REACTION TO FIRE	NAVA	B s1 d0
REI 15 (100mm thickness and above)	PU	FIRE RESISTANCE	MW	REI 120 (120mm thickness and above)

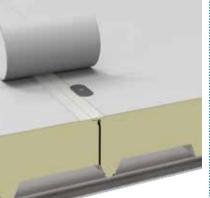
CHARACTERISTICS

- · Internal face: pre-painted galvanised steel (EN 10346)
- · Insulating mass: polyurethane foam or mineral wool
- · External face: sheet coated with PVC membrane

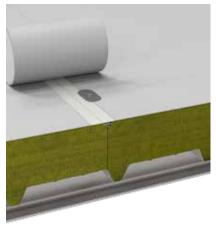
ADVANTAGES

- · High resistance to static and dynamic loads
- Fast installation
- · Excellent resistance to U.V. rays
- · High waterproofing properties

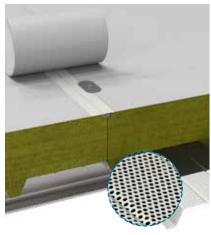
ISODECK PVSTEEL PU







ISODECK PVSTEEL MW FONO



^{*} The declared performances, associated with the different types of insulation, may vary according to the Production Facility, in accordance with the local and national regulations in force. Please check with Isopan. Unless expressly requested, the performance values will not be provided.

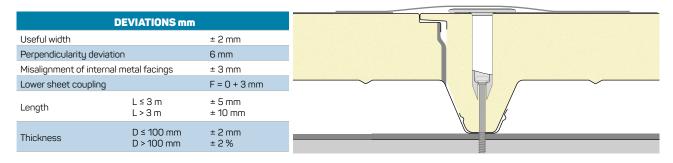
2.1 ISODECK PVSTEEL range

Technical Data

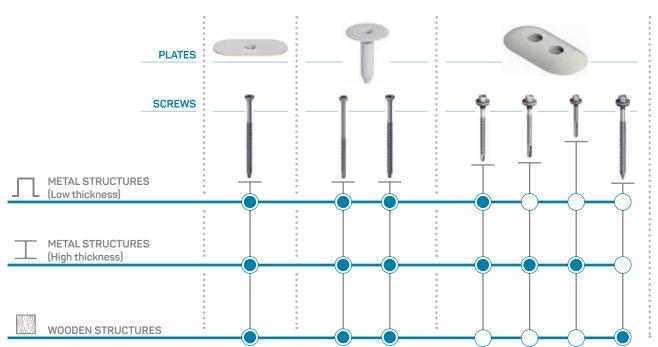
OVERLOADS - SPANS

	ISODECK	(PVSTEEL I	PU - 120 mr	n support		Int. Steel 0.6 mm		ISOI	DECK PV	STEELN	1W - 120	mm sup	port	
	NOMI	AMINAL PANEL THICKNESS mm		EVENLY Distributed Load	NOMIN			AL PANEL THICKNESS mm						
50					150		50						170	
		MAXIMUM	1 SPAN cm							AXIMUM	1 SPAN o			
385	405	485	495	520	580	80	335	360	415	480	525	575	585	595
360	395	440	450	485	525	100	305	325	380	430	480	520	530	540
325	360	410	425	450	485	120	270	300	340	390	435	470	475	480
305	340	390	400	420	455	140	250	280	315	355	400	425	430	435
300	310	360	370	405	435	160	235	250	290	325	360	390	395	400
280	300	350	355	380	410	180	220	235	270	305	330	365	370	375
235	295	320	340	365	400	200	200	220	255	290	320	335	340	345
215	270	305	320	345	375	220	185	210	240	270	300	320	320	325
180	225	295	305	325	355	250	160	185	220	250	280	290	295	300

Calculation for static Sizeng carried out according to the contents of Annex E of UNI EN standard 14509. Deflection limit 1/200 ℓ . The values shown in the capacity tables do not take into account the thermal load. Values not referred to the Isodeck Pysteel MW Fono version. In blue, value considered with support width 150mm.



SCREWS AND FASTENERS

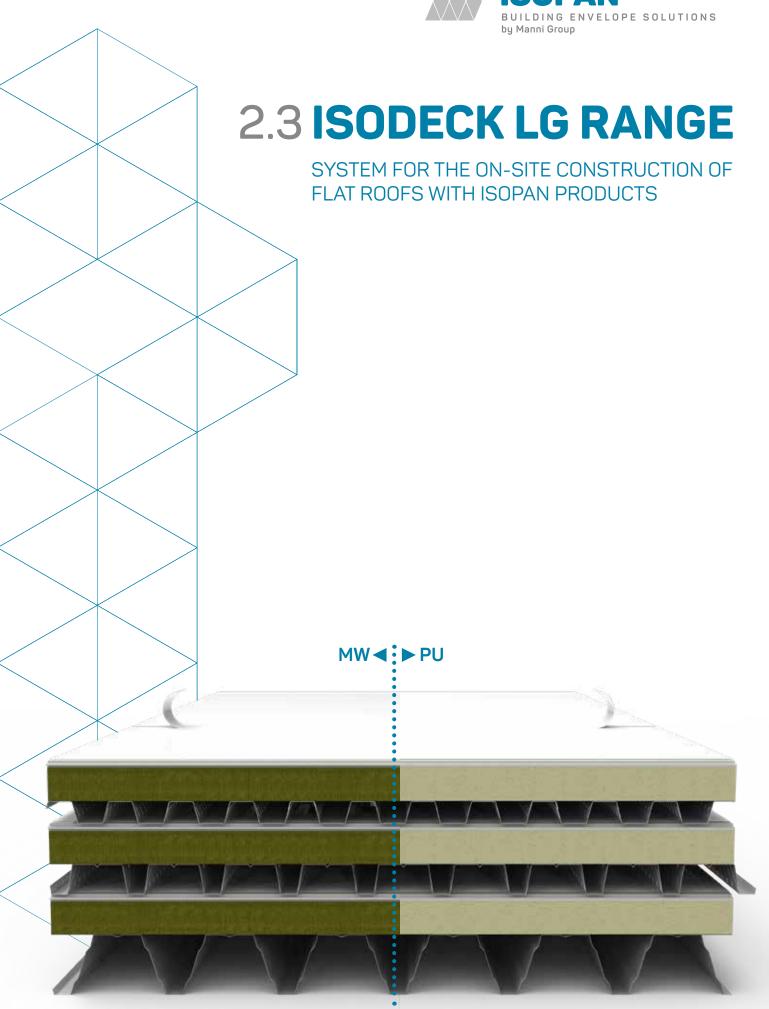


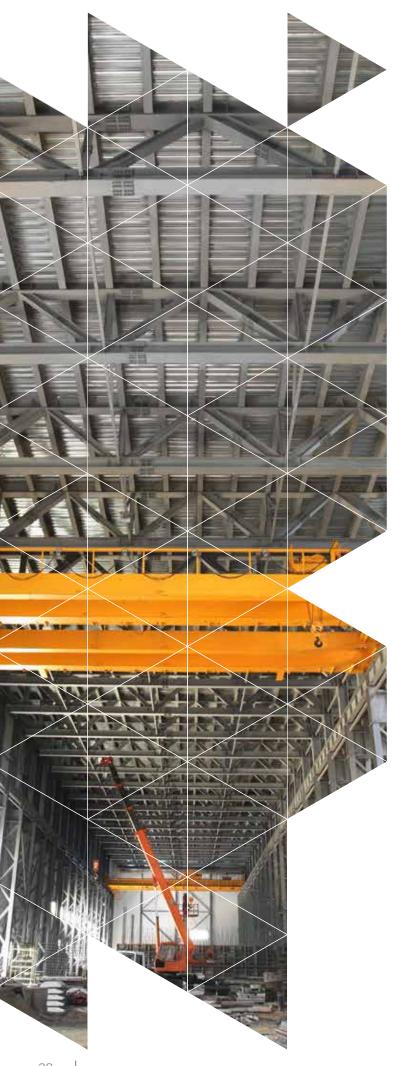


For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.









2.3 ISODECK LG range

THE ISODECK LG SYSTEM

ISODECK LG is the new on-site solution designed by Isopan for flat roofs and large clearances.

ISODECK LG consists of two groups of main elements:

CORRUGATED METAL SHEETS

> **LG 153 LG 75 LG 55**

INSULATING PANELS

Wall Panels Range ISODECK LG-PVSTEEL

UP TO 8-METRE SPANS

The profiles of the corrugated metal sheets LG 55, LG 75 and LG 153 are specially designed for the construction of floors and walkable roofs. The geometric conformation of the metal profile ensures a high load-bearing capacity of the permanent and accidental loads acting on the roof. This results in the possibility to cover large structural clearances.

The possibility to choose the thickness of the metal sheet and the insulating panel makes the ISODECK LG system a flexible solution that can be adapted to any type of project.





Design flexibility

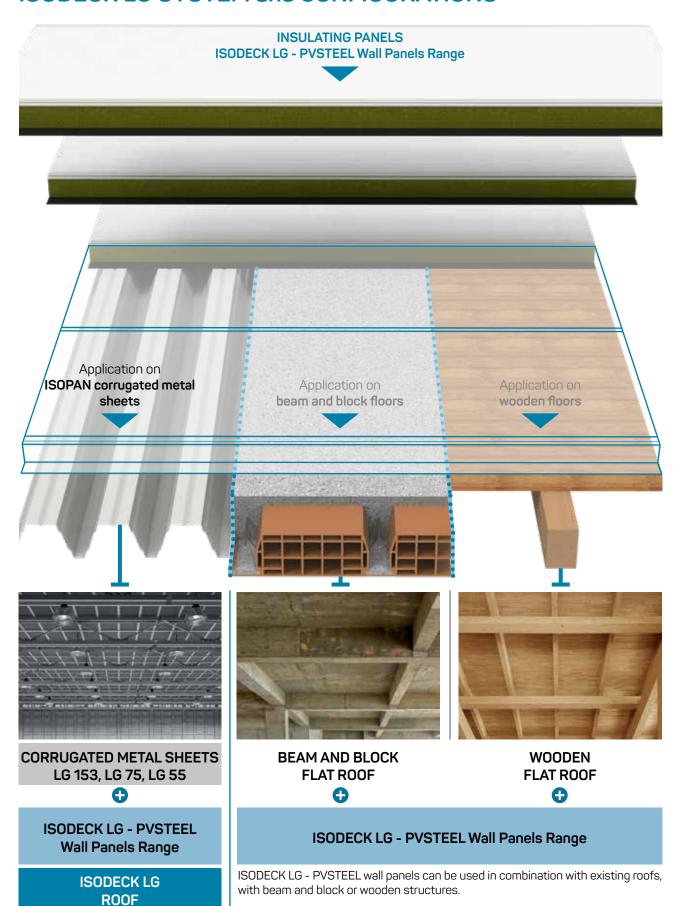


CERTIFIED SYSTEM - Fire resistance REI 20*

- * Certificate obtained in the ISODECK LG 153 MW configuration, with SK-MW PVSTEEL 100mm mineral wool panel:
- Corrugated Metal Sheet LG 153
- **PVSTEEL SK MW 100mm panel**

2.3 ISODECK LG range

ISODECK LG SYSTEM and CONFIGURATIONS



SK-MW PVSTEEL



Useful	nanel	width.	1000	mm

Waterproof synthetic

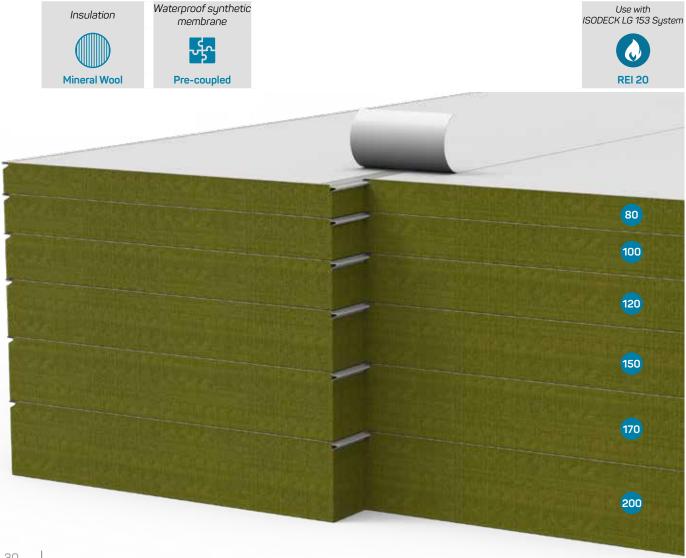
membrane

Insulation

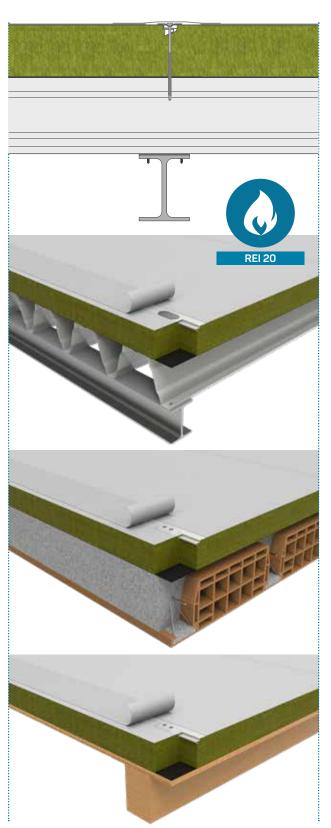
	Stratigraphy				
	Sheet pre-coupled with PVC or TPO				
SK-MW PVSTEEL	mineral wool insulating core				
	Anti-condensation felt				
Substrate installed on site	Separation layer (Site installation)				
Maximum achievable length: 6000 mm					

		NOMINAL PANEL THICKNESS mm				
		80	100	120	150	200
Thermal Insulation	W/m² K	0.49	0.39	0.33	0.27	0.20
U	kcal/m² h °C	0.42	0.34	0.28	0.23	0.17
Weight	kg/m²	19.8	21.8	23.8	26.8	31.8
Fire resistance	REI 20 *	-				

^{*} REI 20 Fire Resistance Certificate valid only for application with Isodeck LG 153 - SK MW PVSTEEL System, with a thickness of 100mm and above. For more information, please contact Isopan.

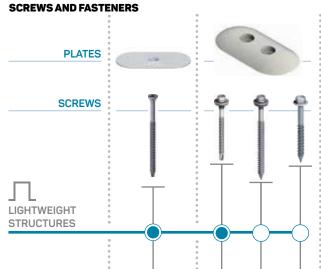


SK-MW PVSTEEL - Applications

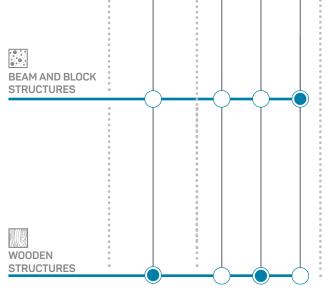


SK-MW PVSTEEL can be used for the composition of the ISODECK LG system, using Isopan corrugated metal sheets:

- ISODECK LG 153 + SK MW PVSTEEL
- ISODECK LG 75 + SK MW PVSTEEL
- ISODECK LG 55 + SK MW PVSTEEL



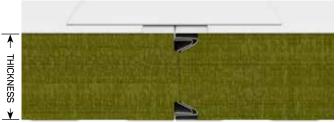
Pvsteel SK is an extremely versatile product, which can be used for the construction of flat roofs on any type of structure.





For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.

ISOFIRE WALL PIANO PVSTEEL



Useful	nanel	width.	1000	mm
OSCIUI	וסו וכו	widti.	1000	111111

	Stratigraphy	
Isofire Wall Piano PVSTEEL	Sheet pre-coupled with PVC or TPO	
	Mineral wool insulating core	
	Lower metal sheet	
Substrate installed on site	Separation layer (Site installation)	

		NOMINAL PANEL THICKNESS mm				
		80	100	120	150	200
Thermal Insulation	W/m² K	0.49	0.39	0.33	0.27	0.20
U	kcal/m² h °C	0.42	0.34	0.28	0.23	0.17
Weight (with internal metal sheet 5/10)	kg/m²	18.8	20.8	22.8	25.8	30.8
Weight (with internal metal sheet 6/10)	kg/m²	19.7	21.7	23.7	26.7	31.7
Weight (with internal metal sheet 8/10)	kg/m²	21.3	23.3	25.3	28.3	33.3
Fire resistance	EI 60 *	-				

^{*} For more technical information, please contact Isopan.

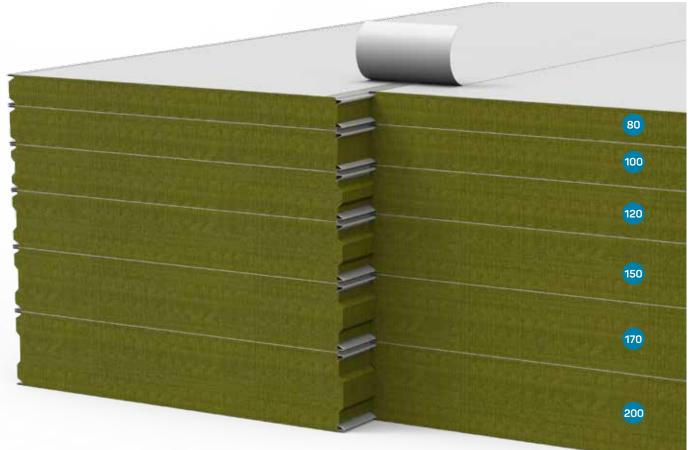


Waterproof synthetic membrane

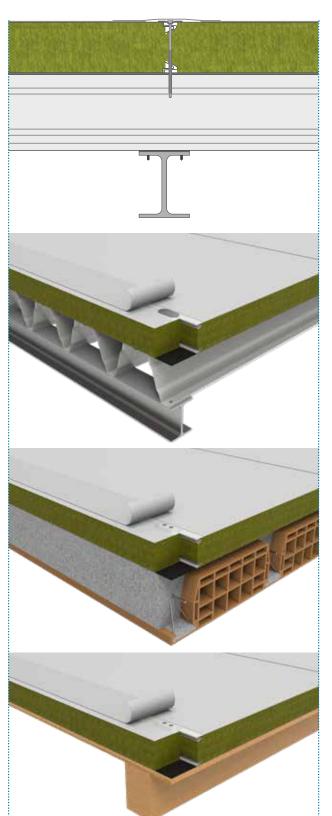




EI 60

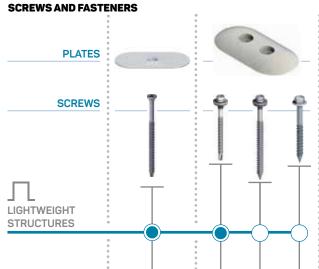


ISOFIRE WALL PIANO PVSTEEL - Applications

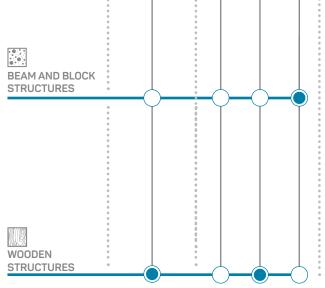


ISOFIRE WALL PVSTEEL can be used for the composition of the ISODECK LG system, using Isopan corrugated metal sheets:

- ISODECK LG 153 + ISOFIRE WALL PVSTEEL
- ISODECK LG 75 + ISOFIRE WALL PVSTEEL
- ISODECK LG 55 + ISOFIRE WALL PVSTEEL



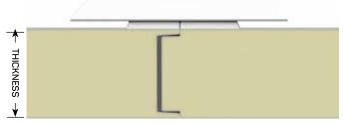
Pvsteel SK is an extremely versatile product, which can be used for the construction of flat roofs on any type of structure.





For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.

ISOPIANO BOX PVSTEEL



	Stratigraphy	
	Sheet pre-coupled with PVC or TPO	
Isopiano Box PVSTEEL	Polyurethane foam insulating core	
TVOTELL	Lower metal sheet	
Substrate installed on site	Separation layer (Site installation)	

Fire Resistance

Useful panel width: 1000 mm

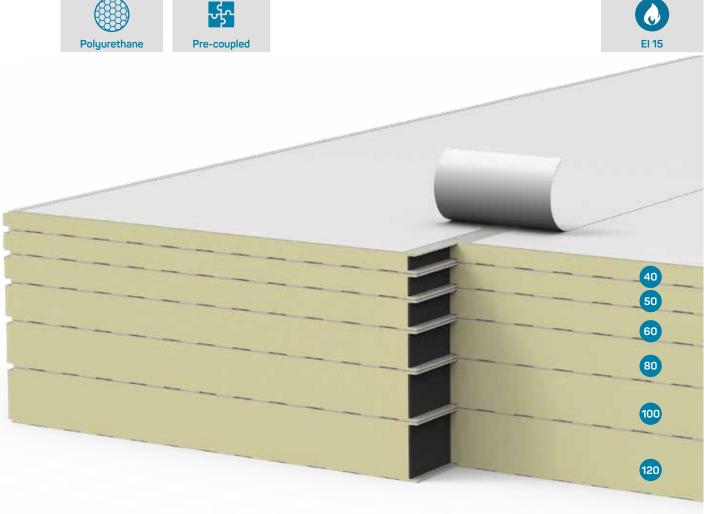
Waterproof synthetic

membrane

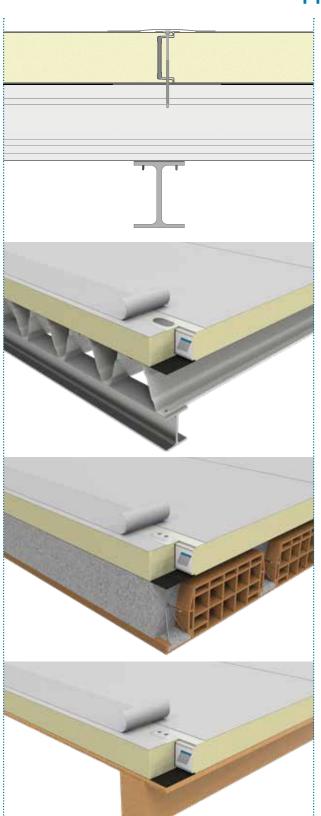
Insulation

		NOMINAL PANEL THICKNESS mm					
		40	50	60	80	100	120
Thermal Insulation U	W/m² K	0.54	0.44	0.37	0.28	0.22	0.19
	kcal/m² h °C	0.46	0.38	0.32	0.24	0.19	0.16
Weight (with internal metal sheet 4/10)	kg/m²	11.7	12.1	12.5	13.3	14.1	14.9
Weight (with internal metal sheet 5/10)	kg/m²	12.5	12.9	13.3	14.1	14.9	15.7
Weight (with internal metal sheet 6/10)	kg/m²	13.3	13.7	14.1	14.9	15.7	16.5
Weight (with internal metal sheet 8/10)	kg/m²	15.0	15.4	15.8	16.6	17.4	18.2
Fire resistance	El 15 *	-	_				

^{*} El15 fire resistance valid for false ceiling application. For more information, please contact Isopan.

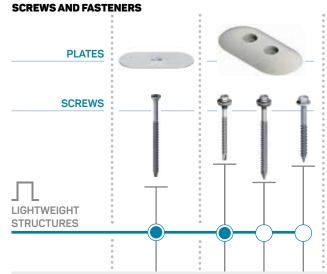


ISOPIANO BOX PVSTEEL - Applications

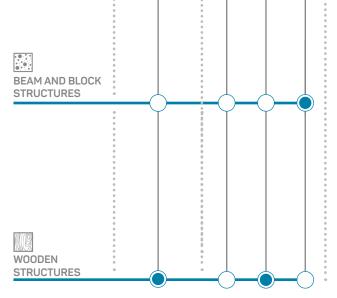


ISOPIANO BOX PVSTEEL can be used for the composition of the ISODECK LG system, using Isopan corrugated metal sheets:

- ISODECK LG 153 + ISOPIANO PVSTEEL
- ISODECK LG 75 + ISOPIANO PVSTEEL
- ISODECK LG 55 + ISOPIANO PVSTEEL



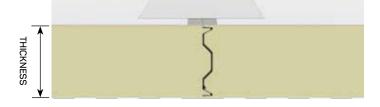
Pvsteel SK is an extremely versatile product, which can be used for the construction of flat roofs on any type of structure.





For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.

ISOFROZEN PIANO PVSTEEL



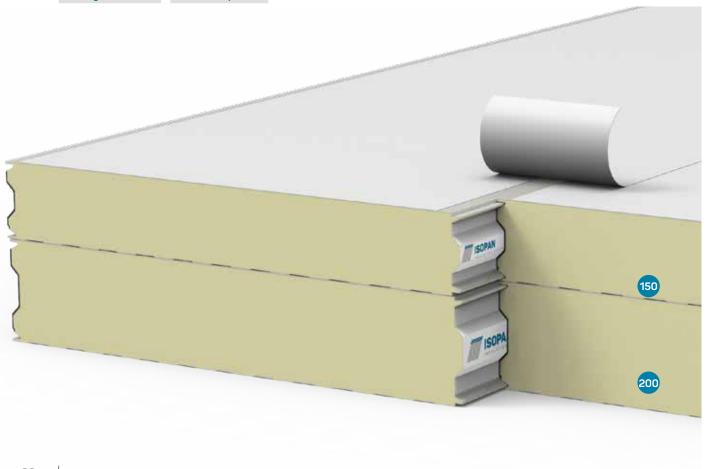
	Stratigraphy	
Isofrozen Piano PVSTEEL	Sheet pre-coupled with PVC or TPO	
	Polyurethane foam insulating core	
	Lower metal sheet	
Substrate installed on site	Separation layer (Site installation)	

Useful panel width: 1000 mm

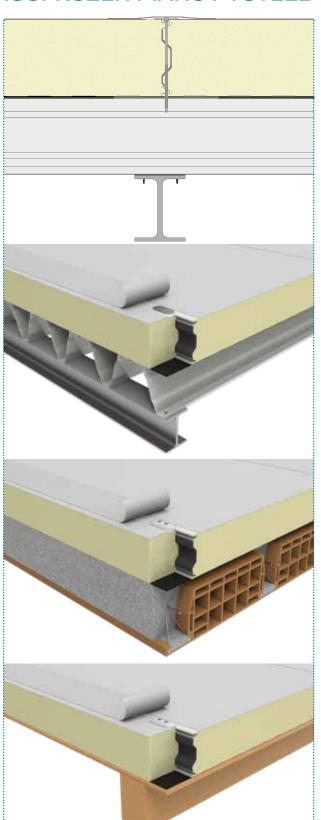
		NOMINAL PANEL THICKNESS mm		
		150	200	
Thermal Insulation U	W/m² K	0.15	0.11	
	kcal/m² h °C	0.13	0.09	
Weight (with internal metal sheet 4/10)	kg/m²	16.1	18.1	
Weight (with internal metal sheet 5/10)	kg/m²	16.9	18.9	
Weight (with internal metal sheet 6/10)	kg/m²	17.7	19.7	
Weight (with internal metal sheet 8/10)	kg/m²	19.4	21.4	





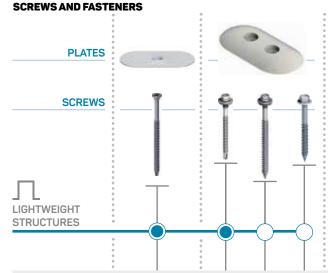


ISOFROZEN PIANO PVSTEEL - Applications

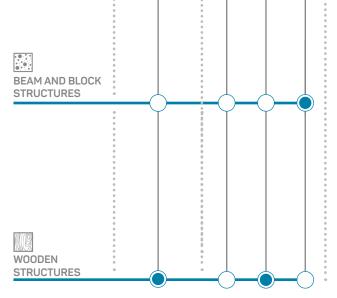


ISOFROZEN PIANO PVSTEEL can be used for the composition of the ISODECK LG system, using Isopan corrugated metal sheets:

- ISODECK LG 153 + ISOPIANO PVSTEEL
- ISODECK LG 75 + ISOPIANO PVSTEEL
- ISODECK LG 55 + ISOPIANO PVSTEEL



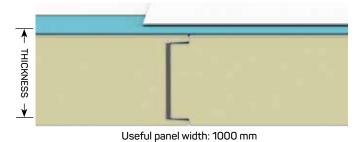
Pvsteel SK is an extremely versatile product, which can be used for the construction of flat roofs on any type of structure.





For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.

ISOPIANO FLAT SYSTEM

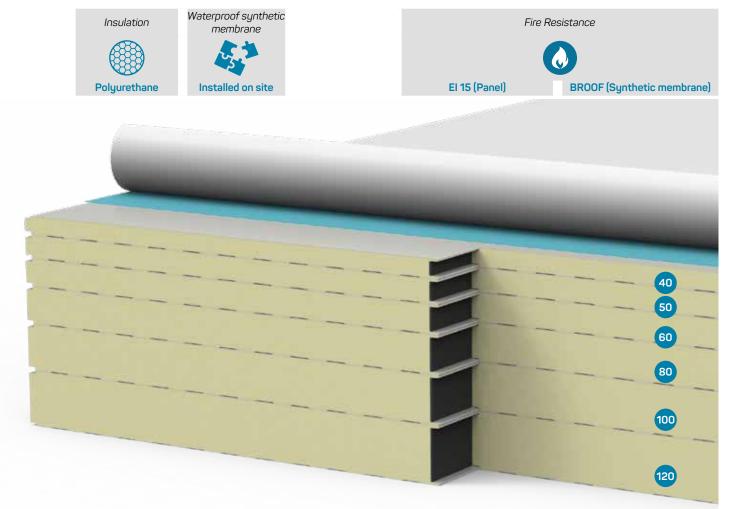


System stratigraphy						
Membrane installed on site PVC or TPO membrane (site installation						
Layer installed on site Separation layer (Site installation)						
	Upper metal sheet					
Sandwich Panel Isopiano	Polyurethane foam insulating core					
isopiano	Lower metal sheet					
Substrate installed on site	Separation layer (Site installation)					

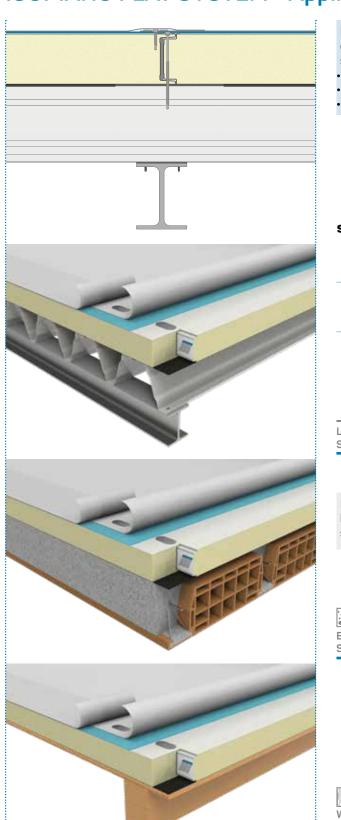
		NOMINAL PANEL THICKNESS mm					
		40	50	60	80	100	120
Thermal Insulation	W/m² K	0.54	0.44	0.37	0.28	0.22	0.19
U	kcal/m² h °C	0.46	0.38	0.32	0.24	0.19	0.16
Weight (Sheets 6/10+ 5/10)	kg/m²	10.2	10.6	11.0	11.8	12.6	13.4
Weight (Sheets 6/10+ 6/10)	kg/m²	11.0	11.4	11.8	12.6	13.4	14.2
Weight (Sheets 8/10 + 6/10)	kg/m²	12.7	13.1	13.5	14.3	15.1	15.9
Weight (Sheets 8/10 + 8/10)	kg/m²	14.3	14.7	15.1	15.9	16.7	17.5
Fire resistance	El 15 *	-	-				

^{*} El15 fire resistance valid for false ceiling application. For more information, please contact Isopan.

The Fire Resistance and Broof performance values refer to the individual Sandwich Panel components (El performance) and synthetic PVC or TPO membranes (Broof).

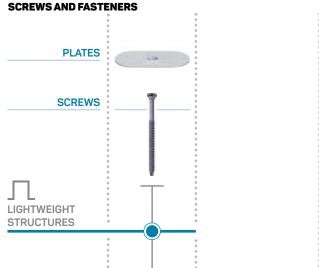


ISOPIANO FLAT SYSTEM - Applications

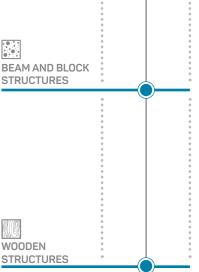


ISOPIANO FLAT SYSTEM can be used for the composition of the ISODECK LG system, using Isopan corrugated metal sheets:

- ISODECK LG 153 + ISOPIANO FLAT SYSTEM
- ISODECK LG 75 + ISOPIANO FLAT SYSTEM
- ISODECK LG 55 + ISOPIANO FLAT SYSTEM



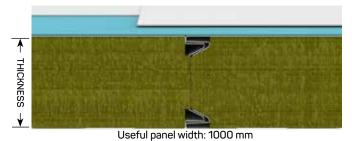
Pvsteel SK is an extremely versatile product, which can be used for the construction of flat roofs on any type of structure.





For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.

ISOFIRE WALL FLAT SYSTEM



System stratigraphy						
Extrados	PVC or TPO membrane (site installation)					
Separation	Separation layer (Site installation)					
	Upper metal sheet					
Sandwich Panel Isofire wall	Mineral wool insulating core					
isonie waii	Lower metal sheet					
Intrados	Separation layer (Site installation)					

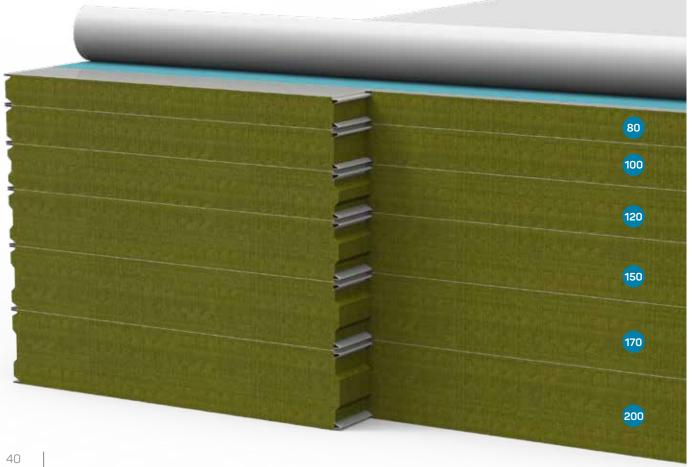
		NOMINAL PANEL THICKNESS mm				
		80	100	120	150	200
Thermal Insulation	W/m² K	0.49	0.39	0.33	0.27	0.20
U	kcal/m² h °C	0.42	0.34	0.28	0.23	0.17
Weight (Sheets 6/10+ 5/10)	kg/m²	16.6	18.6	20.6	23.6	28.6
Weight (Sheets 6/10+ 6/10)	kg/m²	17.3	19.3	21.3	24.3	29.3
Weight (Sheets 8/10 + 6/10)	kg/m²	19.0	21.0	23.0	26.0	31.0
Weight (Sheets 8/10 + 8/10)	kg/m²	20.6	22.6	24.6	27.6	32.6
Fire resistance	EI 60 *	-				

^{*} For more technical information, please contact Isopan. The Fire Resistance and Broof performance values refer to the individual Sandwich Panel components (El performance) and synthetic PVC or TPO membranes (Broof).

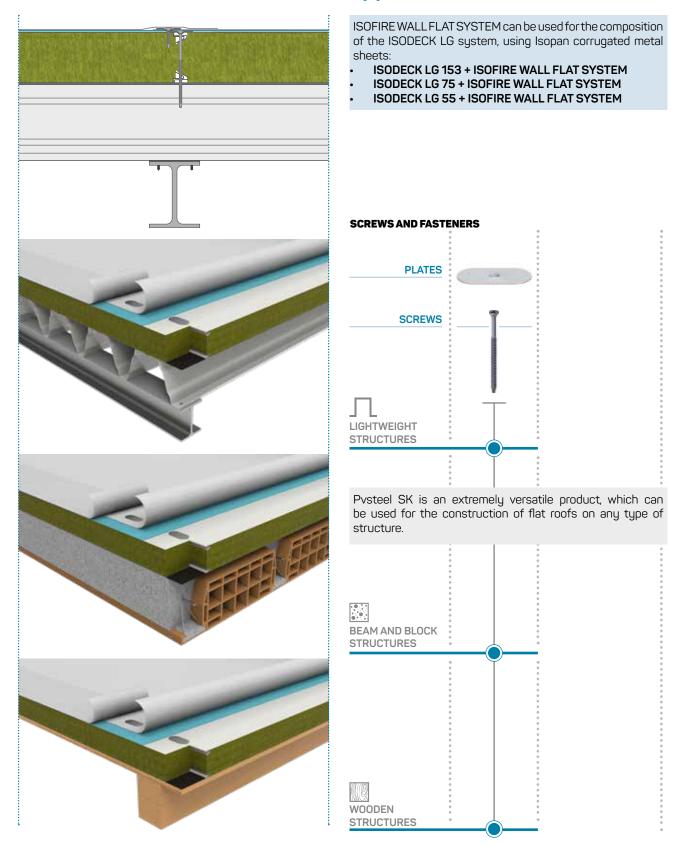








ISOFIRE WALL FLAT SYSTEM - Applications



F

For information on the types of fasteners and installation methods, please refer to the fasteners section of the catalogue or contact ISOPAN.

2.3 Isodeck LG System

CORRUGATED METAL SHEETS

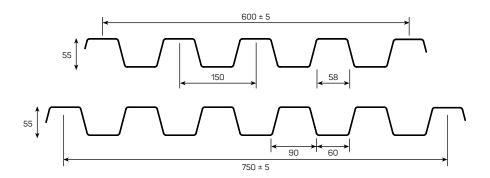
LG 55

Profiled sheet suitable for small surfaces where a high resistance to loads is not required. The minimum thickness is 0.70 mm and can reach a maximum thickness of 1.25 mm. The range of spans for which this sheet is recommended varies from 2.5 m up to 5 m.

Available with two different pitches.

CROSS-SECTION FEATURES

			THICKNESS mm				
		0.7	0.8	1.0	1.25		
Weight	(kg/m²)	9.1	10.5	13.1	16.3		

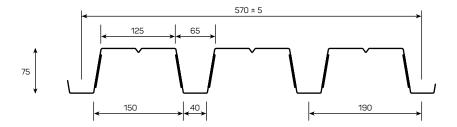


LG 75

Sheet with an articulated construction suitable for small and medium-sized surfaces in which a high resistance to loads is required. The minimum thickness is 0.70 mm and can reach a maximum thickness of 1.25 mm. The range of spans for which LG 75 is recommended varies from 2.5 m up to 5 m.

CROSS-SECTION FEATURES

			THICKNESS mm					
		0.7	0.8	1.0	1.25			
Weight	(kg/m²)	9.64	11.02	13.77	17.21			

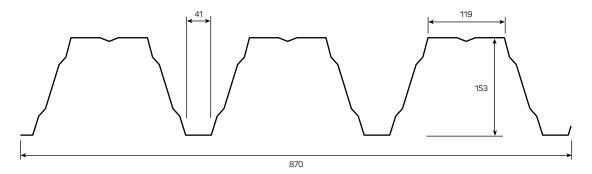


LG 153

Sheet with a complex construction suitable for large surfaces in which a high resistance to loads is required. The minimum thickness is 0.77 mm and can reach a maximum thickness of 1.25 mm. The range of spans for which this sheet is recommended varies from 4 m up to 8 m.

CROSS-SECTION FEATURES

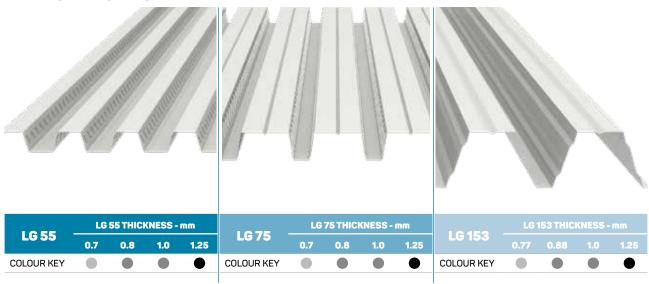
		THICKNESS mm					
		0.77	0.88	1.0	1.25		
Weight	(kg/m²)	10.51	12.34	14.02	17.52		

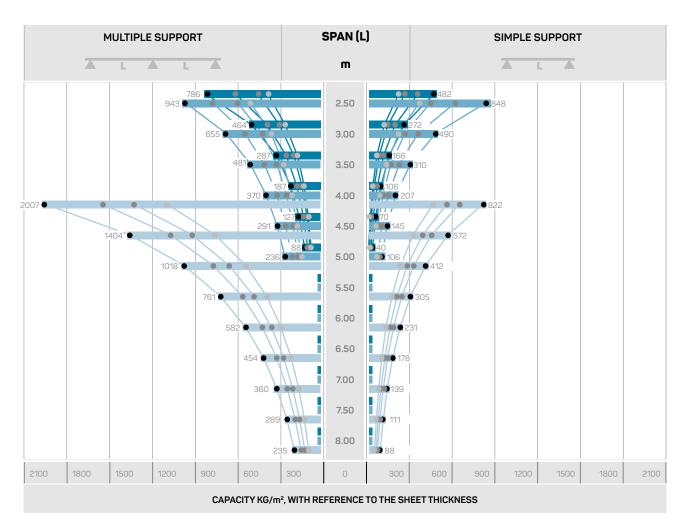


2.3 Isodeck LG System

CORRUGATED METAL SHEETS

METAL SHEET CAPACITY TABLE







The table simulates the performance of the sheets with single and multiple supports. In any case, it is advisable to refer to the capacity tables in the technical manual or to contact ISOPAN.





2.4 COMPATIBLE SYSTEMS

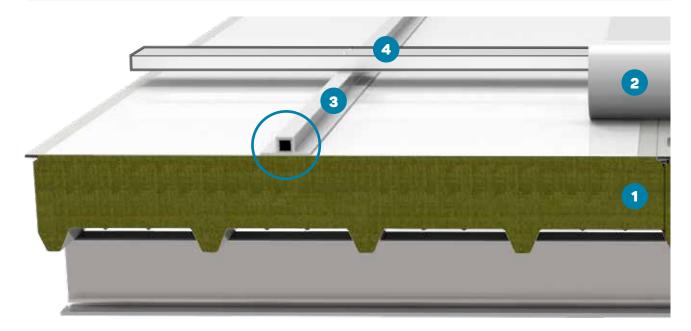
Photovoltaic systems Walkways Fall arrest systems Isosky

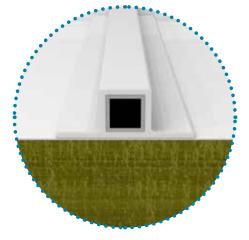
PHOTOVOLTAIC SYSTEMS

Thanks to the use of reflective synthetic membranes, the FlatRoof surfaces never reach high temperatures. This condition is an advantage even in the presence of a photovoltaic system, whose performance can be positively affected by the absence of high surface temperatures. Photovoltaic systems can be installed by means of anchoring on coated and heat-welded metal profiles directly onto the synthetic surfaces.



No.	PART	MATERIAL
1	ISODECK PVSTEEL	PU / MW
2	BRIDGING	PVC-P
3	PVC BAR	PVC-P + ALUMINIUM
4	SUBSTRUCTURE EXAMPLE (NOT PROVIDED)	-

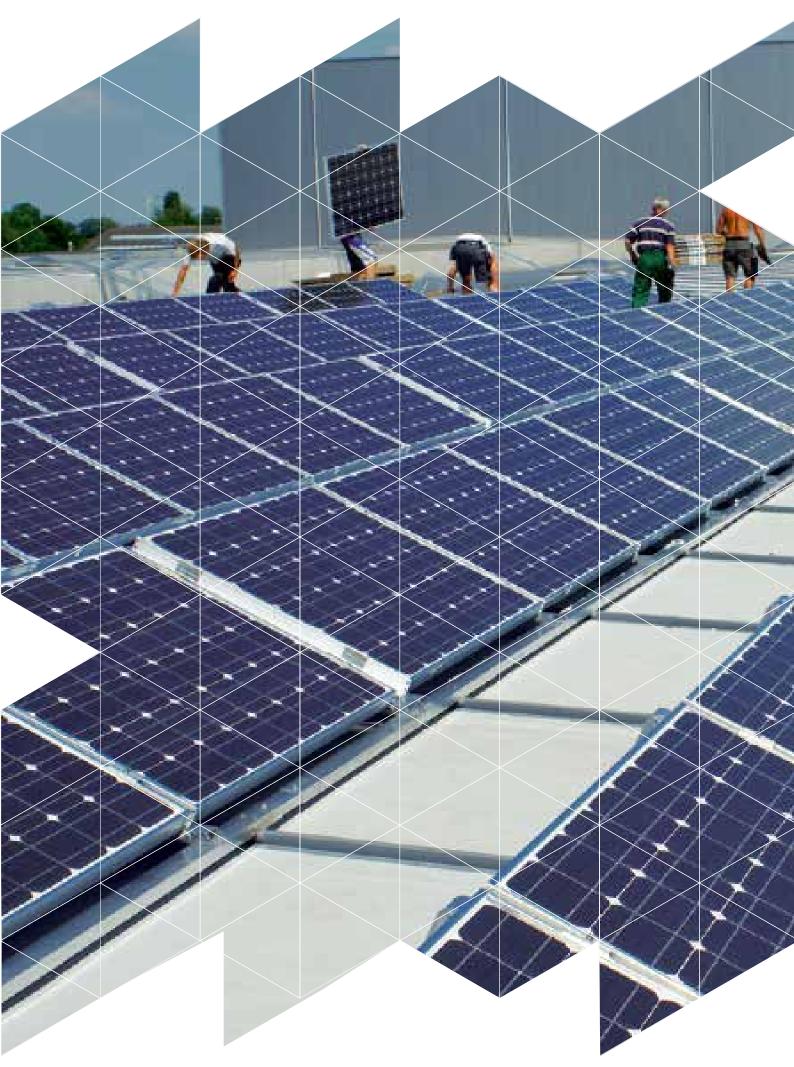


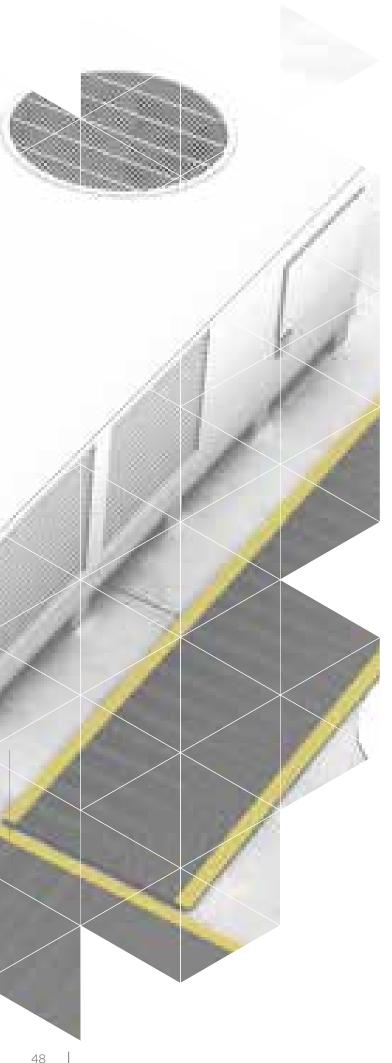


	PVC-P	ALUMINIUM
LENGTH	3 metres	3 metres
THICKNESS	3 mm	2 mm
HEIGHT	33 mm	25 mm
WIDTH	30 mm	20 mm
	Base profile: 80 mm	Quality: EN6060 T6-AIMgSi 0.5 F22



For technical information on usage and for the technical specifications, please refer to the documentation available on the www.isopan.com website.

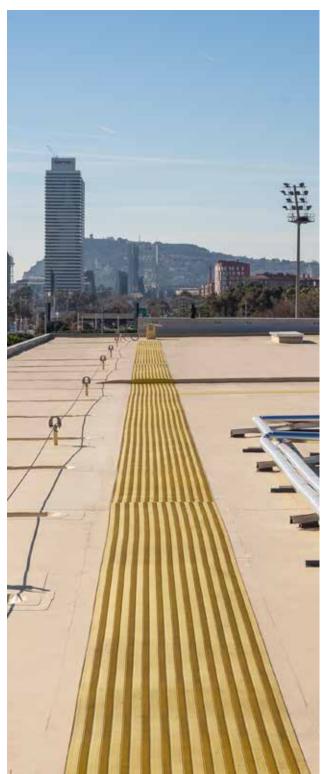




WALKWAYS

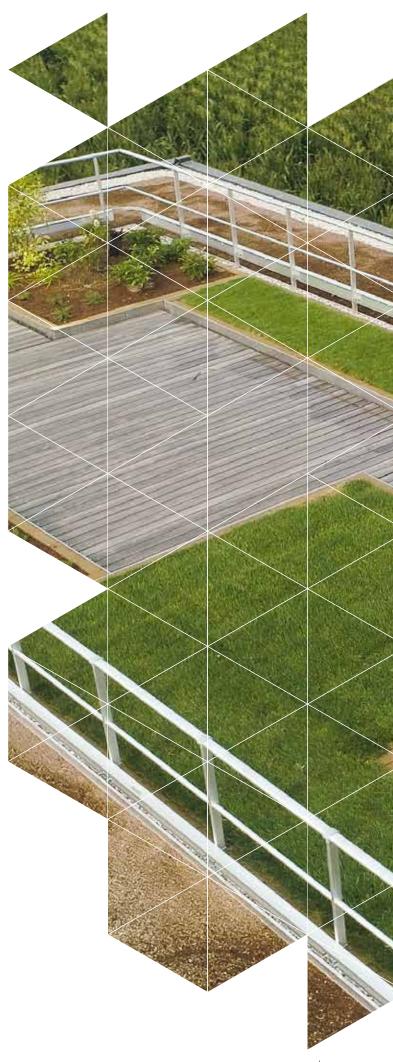
Gangways and walkways are built by installing special metal profiles pre-coupled with high strength synthetic membranes, which are fastened directly to the surface of the waterproofing membranes by means of heat sealing. This way, no holes are made in the membrane, which could create discontinuity on the synthetic coat and cause water infiltration.

Anti-slip tested according to international reference standards, for safe roof access.



FALL ARREST SYSTEMS

There are various Isopansafe systems available for securing roofs, compatible with any type of roof and compliant with the applicable Italian and European regulations in force.



ISOSKY

ISOSKY is the innovative roofing system resulting from the collaboration between VELUX and ISOPAN.

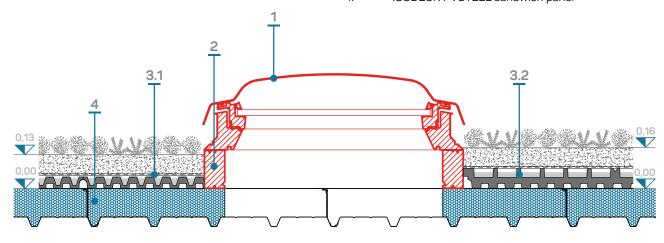
ISOSKY is an ideal solution that integrates the best features of VELUX windows with ISOPAN panels: natural light and high insulating performance, putting the ease of assembly on site in the foreground.

ISOSKY consists of a window pre-mounted on a sandwich panel. With this solution, all the risks deriving from an onsite application have been eliminated by providing a finished element that arrives on site ready for installation.

VELUX®

KEY

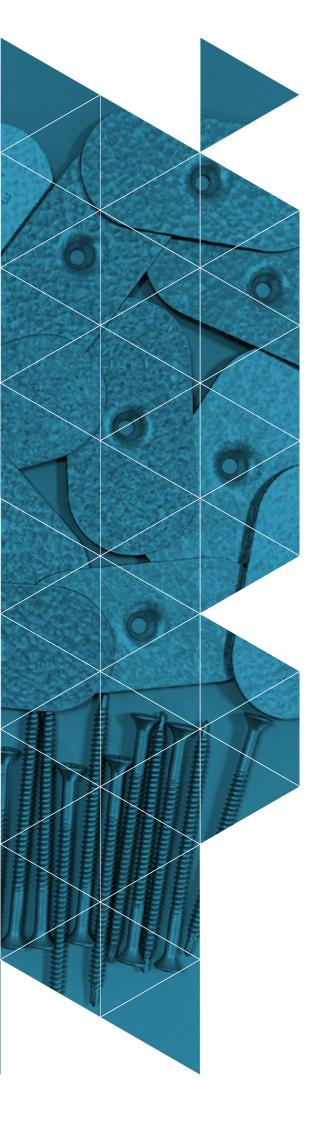
- 1. Dome (Velux CVP)
- 2. Window (Velux ZCE)
- 3.1. GREENROOF system (thickness 10cm)
- 3.2 GREENROOF system (thickness 20cm)
- 4. ISODECK PVSTEEL sandwich panel













3.1

FASTENERS AND BRIDGING

Page 55

3.2

GENERAL ACCESSORIES

Page 63

3.3

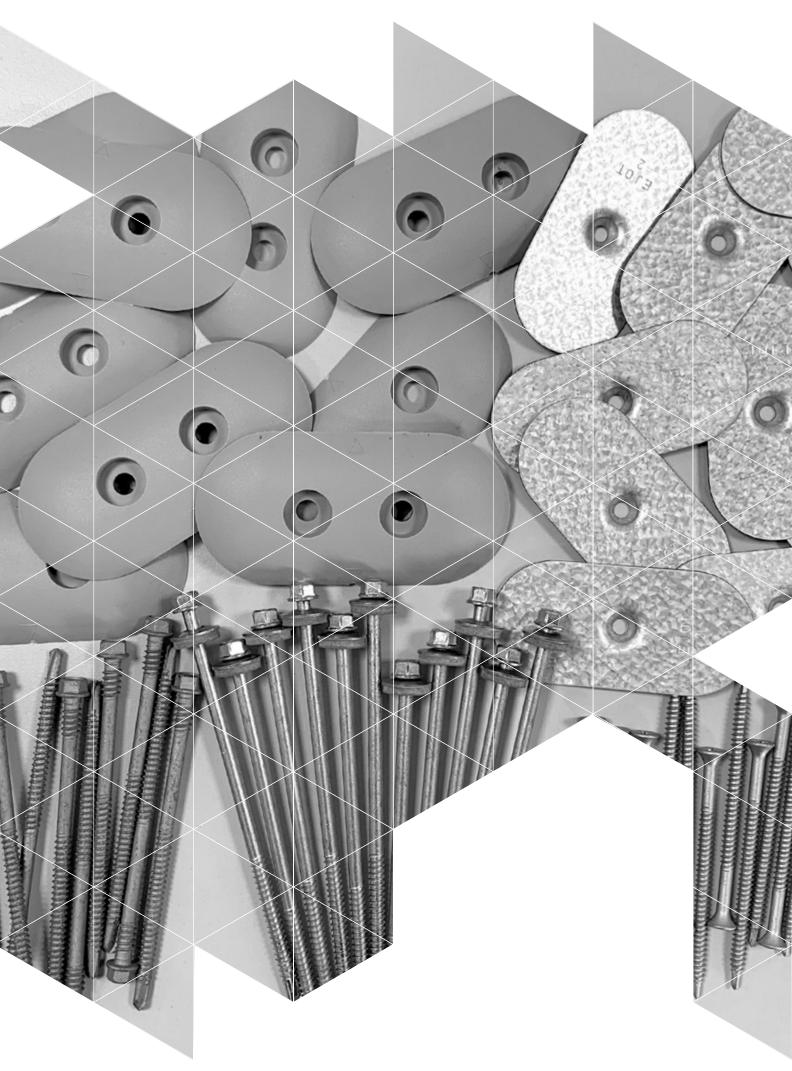
PVC ACCESSORIES

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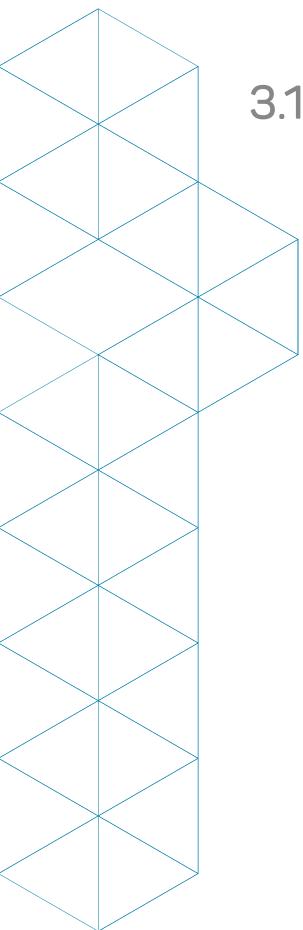
3.4

TPO ACCESSORIES

Page 75







FASTENING SCREWS

Key Isodeck Synth Isodeck PVSteel Isodeck LG Panels

KIT - SELF-TAPPING SCREW

Compatibility





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
Stainless Stainle		и 5 5	40	50	-	-
			40	60	-	-
	Stainless		40	80	-	
Steel	Steel		40	100	-	
			40	120	-	-
			40	150	-	-

Self-tapping screw for fastening the single skin metal faced panels and extension for fastening.

Fastening on steel substructures up to 1.5 mm

COMPATIBLE SUBSTRUCTURES

Fastening on steel substructures with thickness >1.5 mm (pre-drilled)



Fixing on wooden substructures.

KIT - 1.5 mm STRUCTURE

Compatibility





	Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
				110	50	50	80
				120	60	60	100
	Stainless		Ø 4.8	140	140 80	80	120
	Steel		W 4.8	160 100	100	150	
			-	180	120	120	
				220	150	150	

For fastening to a metal substructure (max thickness 1.5 mm) and countersunk screw, with 82x40mm metal plate

Fastening on steel substructures Thickness up to 1.5 mm

COMPATIBLE SUBSTRUCTURES

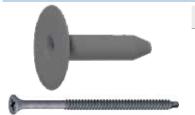
Fastening on steel substructures Thickness up to 4 mm (pre-drilled)



Fixing on wooden substructures.

KIT - 4 mm STRUCTURE - with SLEEVE





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
Stainless Steel		Ø 4.8 -	90	50	50	-
	HDPE		90	60	60	-
			90	80	80	-
			110	100	100	-
			110	120	120	
			110	150	150	-

For fastening to a metal substructure (thickness 1.5-4 mm) and countersunk screw, with 50 x 35 mm sleeve.

Fastening on steel substructures Thickness up to 1.5 mm

COMPATIBLE SUBSTRUCTURES

Fastening on steel substructures Thickness up to 4 mm (pre-drilled)



Fixing on wooden substructures.



FASTENING SCREWS

Key
Isodeck Synth
Isodeck PVSteel
Isodeck LG Panels

KIT - 6 mm STRUCTURE - with SLEEVE

Compatibility





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
Stainless Steel HDPE		Ø 4.8 9	90	50	50	-
			90	60	60	-
	LIDDE		90	80	80	-
	HUPE		110	100	100	-
			110	120	120	-
			110	150	150	-

For fastening to a metal substructure (thickness 3-6 mm) and screw with torx head, with 50×35 mm sleeve.

COMPATIBLE SUBSTRUCTURES

T



Fastening on steel substructures
Thickness up to 1.5 mm

Fastening on steel substructures
Thickness up to 4 mm (pre-drilled)

Fixing on wooden substructures.

KIT - 5 mm STRUCTURE - with HDPA PLATE

Compatibility





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
Steel			135	50	50	-
			135	60	60	-
	LIDDA		135	80	80	-
Stainless steel	HDPA	Ø 5.5	155	100	100	-
		_	155	120	120	-
			235	150	150	-

For fastening to a metal substructure (max thickness 5 mm) and hex head screw, with 100x50 mm HDPA Polyamide plate

COMPATIBLE SUBSTRUCTURES

Л

Fastening on steel substructures
Thickness up to 1.5 mm



Fastening on steel substructures Thickness up to 5 mm (pre-drilled)



Not compatible with wooden substructures.

KIT - 10 mm STRUCTURE - with HDPA PLATE

Compatibility





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
	HDPA	Ø 5.5 -	135	50	50	-
			135	60	60	-
Steel			135	80	80	-
Stainless steel			155	100	100	-
			155	120	120	-
			235	150	150	-

For fastening to a metal substructure (max thickness 10 mm) and hex head screw, with 100x50mm HDPA Polyamide plate

COMPATIBLE SUBSTRUCTURES

Not compatible with steel substructures
Thickness up to 1.5 mm

T

Fastening on steel substructures Thickness up to 10 mm (pre-drilled)



Not compatible with wooden substructures.

FASTENING SCREWS

Key Isodeck Synth Isodeck PVSteel Isodeck LG Panels



KIT - 16 mm STRUCTURE - with HDPA PLATE

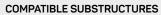
Compatibility





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
	HDPA	Ø 5.5 -	115	40	40	50, 60
			155	50, 60	50, 60	80, 100
Stainless			195	80, 100	80, 100	120, 150
Steel			235	120, 150	120, 150	

For fastening to a metal substructure (max thickness 16 mm) and hex head screw, with 100x50mm HDPA Polyamide plate



 \top



Not compatible with steel substructures
Thickness up to 1.5 mm

Fastening on steel substructures up to 16 mm

Not compatible with wooden substructures.

KIT - WOODEN STRUCTURE - with HDPA PLATE

Compatibility





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
Steel Stainless steel		-	140			60
			160	50, 60	50, 60	80, 100
	LIDDA		180	80	80	120
	HUPA		200	100	100	
			220	120	120	150
			240	150	150	

For fastening to a wooden substructure, with hex head screw and 100x50mm HDPA Polyamide plate

COMPATIBLE SUBSTRUCTURES

Not compatible with steel substructures.

Not compatible with steel substructures.



Compatible with wooden substructures.

KIT - BEAM AND BLOCK STRUCTURES - with HDPA PLATE

Compatibility





Material Screw	Plate Material	Screw Ø (mm)	Screw L (mm)	SYNTH Panel Th. (mm)	PVSTEEL Panel Th. (mm)	Isodeck LG Panel Th. (mm)
Steel Stainless steel	HDPA	Ø 5.5				

For fastening to beam and block substructures with hex head screw, with 100x50mm metal plate

COMPATIBLE SUBSTRUCTURES

Not compatible with steel substructures.

Compatible with beam and block substructures.



Not compatible with wooden substructures.



BRIDGING AND SYNTHETIC MEMBRANES KIT

Key Isodeck Synth Isodeck PVSteel Isopiano - Isofire Wall - SK MW

BANDS FOR PVC AND TPO BRIDGING

Compatibility





PVC - thickness 1.2 mm			TPO - thickness 1.5 mm		
Joint	Width	Length	Joint	Width	Length
Longitudinal	19.6 ; 23 cm	20 m	Longitudinal	19.6 ; 23 cm	25 m
Butt joint	30 cm	20 m	Butt joint	30 cm	25 m
Ridge	42 cm	20 m	Ridge	42 cm	25 m
Perimeter wall	160 cm	20 m	Perimeter wall	210 cm	25 m

The installation of the Bridging Bands consists in the application of bands made of synthetic material in the junction points between the panels, and in correspondence with all the elements that can create discontinuity on the waterproof synthetic membrane. This operation eliminates all the points where water infiltration can occur.

To ensure effective waterproofing, as well as to avoid damaging the synthetic membrane, it is necessary to use the Bridging Bands compatible with the installed panel. Using bridging Bands or other elements not supplied by Isopan can damage the PVC or TPO facing.

KIT and COMPONENTS with Isopiano and Isofire Wall FLAT SYSTEM

Compatibility

Components for KIT with PVC - White					
COMPONENT	Thickness	Width	Length		
Roll of PVC Membrane	1.2 mm	2.1 m			
TNT separation layer 300 g/m2 (1)		2 m	75m		
Vapour barrier (2)					

(1) TNT 300 g/m2 separation layer: The item must be placed on the external sheet of the ISOPIANO FLAT SYSTEM and ISOFIRE WALL FLAT SYSTEM panels, before installing the Roll of PVC Membrane.

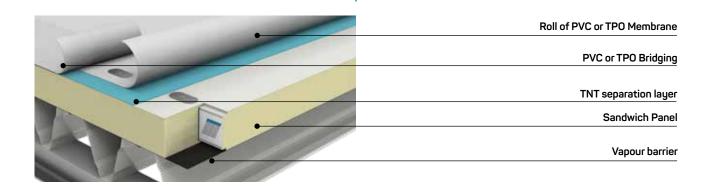
(2) Vapour barrier: The item must be installed below the ISOPIANO FLAT SYSTEM and ISOFIRE WALL FLAT SYSTEM panels.

Components for KIT with TPO - Grey or White					
COMPONENT	Thickness	Width	Length		
Roll of TPO Membrane	1.5 mm	2.1 m	25 m		
Roll of TPO Membrane	1.8 mm	2.1	20		
Glass Fibre 100g/m2 (1)					
TNT separation layer 300 g/m2 (2)					
Vapour barrier (3)					

(1) 100 g/m2 Glass Fibre: to be installed under the roll of TPO Membrane; required for BROOF T2 Certificate.

(2) TNT 300 g/m2 separation layer: The item must be placed on the external sheet of the ISOPIANO FLAT SYSTEM and ISOFIRE WALL FLAT SYSTEM panels, before installing the Roll of PVC Membrane.

(3) Vapour barrier: The item must be installed below the ISOPIANO FLAT SYSTEM and ISOFIRE WALL FLAT SYSTEM panels.



BLOWERS AND WELDING MACHINES FOR BRIDGING

MANUAL WELDING MACHINE FOR BRIDGING



CODE	Characteristics	Description
	1рс	
		Cup for manual wolding
		Gun for manual welding

ONE-WAY BRIDGING WELDING MACHINE



CODE	Characteristics	Description	
	1рс		
		Machine for welding side of	
		bridging strips	

ADAPTER KIT



CODE	Characteristics	Description
	1рс	Kit for welding profiles with automatic welding machine.

TWO-WAY BRIDGING WELDING MACHINE



CODE	Characteristics	Description
	1рс	
		Machine for welding bridging
		strips on both sides

BRIDGING WELDING MACHINE



Isopan can provide devices for heat sealing the Bridging Bands on least

These devices can only be used by qualified personnel, and must be used solely for the installation of products supplied by Isopan.





MANUAL TOOLS FOR BRIDGING

SILICONE ROLLER FOR WELDING



CODE	Width	Characteristics	Description
	40mm	1рс	
			Silicone roller for welding

BRASS ROLLER FOR WELDING



CODE	Width	Characteristics	Description
	40mm	1рс	
			Brass roller for welding special parts

TESTING HOOK



CODE	Width	Characteristics	Description
	40mm	1рс	
			Metal hook for welding tests and for the detection of infiltration points









3.2 General accessories

LEAF GUARD

UNIVERSAL PP LEAF GUARD



CODE	Colour	Ømm	Characteristics
ISCTTPOPARAFG00001		80-125	Made of PE material
			50 pc

PP GRAVEL GUARD EXTENSION



CODE	Colour	Ø mm	Characteristics
			made of PP material
			1 рс

PP GRAVEL GUARD / UNIVERSAL ROD FOR GRAVEL GUARD



CODE	Colour	Ø mm	Characteristics
ISCTBANDPARA		80-160	made of PP material
ISCTBANDPARA		160-200	1 pc





3.2 General accessories

SHEETS AND METAL PROFILES

PROFILED BAR



Code	Colour	Length mm	Characteristics
		2250	Made of galvanised steel
			10 pcs

Galvanized steel with alternating 6 mm and 10 mm diameter holes. Bar for linear mechanical fixing of the membranes.

FIXING PROFILE



Code	Colour	Length m	Size mm	Versione
		2000	10 x 40 x 10	Linear fixing rofile.
		2000	10 x 10 x 40 x 10	Vertical connection profile.
		2000	10 x 70 x 50 x 10	Crowning profile.



PLASTICISED SHEET - STAINLESS STEEL ON REQUEST



Code	Colour	Weight Kg/m2	Size mm	Characteristics
		5.8	1000 x 2000	In PVC-P
				10 - 30 pcs

Galvanised steel sheet laminated with a homogenous waterproof PVC membrane. The lower steel sheet is protected by an antiorrosion layer.







3.3 PVC Accessories

CORNERS AND FITTINGS

PREFABRICATED INTERNAL CORNER



Code	Colour	Ømm	Characteristics
ISCTPVCANGINT			Angle 90°, 20 pc
			Installation: Hot air welding

PREFABRICATED EXTERNAL CORNER



Code	Colour	Ø mm	Characteristics
ISCTPVCANGEST			Angle 90°, 20 pc
			Installation: Hot air welding

PVC-P CONICAL FITTING



Code	Colour	Ø mm	Characteristics
ISCTPVCRACC0000001		13-49mm	H 120mm, 25 pc
			Installation: Hot air welding

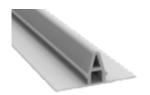




3.3 PVC Accessories

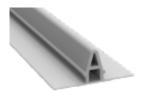
COATED PROFILES AND WALKWAY

ALKORBAR



Code	Colour	Size mm	Characteristics
		25x35 x 3000	40 pc
			PVC-P
			Installation: Hot air welding

ALKORBAR XL



Code	Colour	Size mm	Characteristics
		70x50 x 3000	20 pc
			PVC-P
			Installation: Hot air welding

EXTRUDED PVC BAR WITH ALUMINIUM CORE



Code	Colour	Size mm	Characteristics
ISCTPR0F0000000005		20x25 x 3000	25 pc
ISCTPR0F0000000004		80x33 x 3000	PVC-P
			Installation: Hot air welding

WALKWAY



Code	Colour	Size	Characteristics
		76cm x 15m	Delimitation of walkways on the roof, maintenance areas and mechanical protection of the membrane.



3.3 PVC Accessories

OUTLETS AND VENTS

VERTICAL OUTLETS - 235 mm with leaf guard



Code	Colour	Ø mm	Characteristics
ISCTPVCB0C23580		80	Height 235 mm, 6 pc
ISCTPVCB0C235100		100	
ISCTPVCB0C235125		125	
			Installation: Hot air welding

VERTICAL OUTLETS - 240 mm with leaf guard



Code	Colour	Ø mm	Characteristics
ISCTPVCB0C240110		110	Height 240 mm, 25 pc
			Installation: Hot air welding

RIGID OUTLETS WITH FLANGE



Code	Colour	Ø mm	Characteristics
		25, 32, 40, 50,	H from 250 to 600 mm
		63, 75, 80, 90,	1рс
		100, 110, 125, 140,	(on demand)
		160, 180, 200, 225	Installation: Hot air welding

CORNER OUTLETS



Code	Colour	Ø mm	Lungh. mm	Characteristics
		100 x 65	425	5 рс
		100 x 100	425	
				Installation: Hot air welding

RIGID HORIZONTAL AND RECTANGULAR OUTLETS WITH FLANGE



Code	Angle	Ø mm	Characteristics
	45° / 90°	80x60; 100x60; 110x110;	Lenght from 250 to 600mm, 1 pc
		125x125; 160x160	
			Installation: Hot air welding



CONTACT GLUE



Code	Formato	Characteristics
ISCTSIG00000000002	6 x 1 lt.	
ISCTSIG00000000003	1 x 10 lt.	Suitable for bonding vertical parts or for details

CLEANER AND SOLVENT





Code	Formato	Characteristics
ISCTPVCCLEAN	6 x 1 lt.	Cleaner, Etilacetato
ISCTPVCCLEAN	1 x 5 lt.	Cleaner, Etilacetato
ISCTPVCSOLV	6 x 1 lt.	Solvent, consumption 25 g/m, tetraidrofurano (THF)

WATERPROOFING LIQUID, CATALYST, COMBI-PRIMER

•	•	
Code	Formato	Characteristics
	1 x 10 kg	waterproofing liquid PMMA base
	1 x 100 g	Peroxide catalyst (powder)
	1 x 5 kg	Adhesion promoter PMMA
	26cm x 50m	TNT Dalvastas as II 50-
	TNT Polyester, roll 50n	









CORNERS AND FITTINGS

PREFABRICATED INTERNAL CORNER



Code	Colour	Tipo	Characteristics
ISCTTPOANGINT		Internal	Angle 90°
ISCTTPOANGEST		External	
			Installation: Hot air welding

CONICAL FITTING FOR PIPES



Code	Colour	Ø mm	Characteristics
ISCTTPORACCO00	0001	20 - 50	
ISCTTPORACCO00	0002	50 - 90	
ISCTTPORACCO00	0003	75 - 125	
			Installation: Hot air welding

SINGLE VENT



Code	Colour	Height mm	Ø mm	Characteristics
		200	75	
		325	110	Installation: Hot air welding

CONICAL OUTLET FITTING



Code	Colour	Ø mm	Lungh. mm	Characteristics
		170	203	
				Installation: Hot air welding



OUTLETS

SPIGOT-AND-SOCKET OUTLETS



Code	Colour	Height mm	Ø mm	Characteristics
		330		
			80, 100, 110, 125, 140, 160, 200	Installation: Hot air welding
			140, 100, 200	Welding

SIMPLE OUTLET



Code	Colour	Height mm	Ø mm	Characteristics
		250		
			80, 100, 110, 125, 140, 160, 200	Installation: Hot air welding

90° CORNER OUTLETS WITH CIRCULAR CROSS-SECTION



Code	Colour	Size mm	Ø mm	Characteristics
		500mm	80	
			100	Installation: Hot air
			110	welding
			125	

ELBOW CONNECTION (RECTANGULAR HOLE SECTION)



Code	Colour	Size mm	Ø mm	Characteristics
		100 x 100	80	
		65 x 100	80	Installation: Hot air
		100 x 100	100	welding
		65 x 100	100	

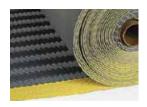
90° CORNER OUTLETS (RECTANGULAR HOLE SECTION)



Code	Colour	Size mm	Ø mm	Characteristics
ISCTTPOBOCRET1	00 00		100 x 100	
ISCTTPOBOCRET6	5		65 x 100	Installation: Hot air
				welding

WALKWAYS AND COATED PROFILES

WALKWAY AND PROTECTIVE LAYER



Code	Colour	Size	Characteristics
		75cm x 30m, sp. 1.8mm	Delimitation of walkways on the roof, maintenance areas and mechanical protection of the membrane, thickness 4mm

ALKORBAR



Code	Colour	Size mm	Characteristics
		25x35 x 3000	40 pc
			Installation: Hot air welding

ALKORBAR XL



Code	Colour	Size mm	Characteristics
		70×50 × 3000	40 pc
			Installation: Hot air welding



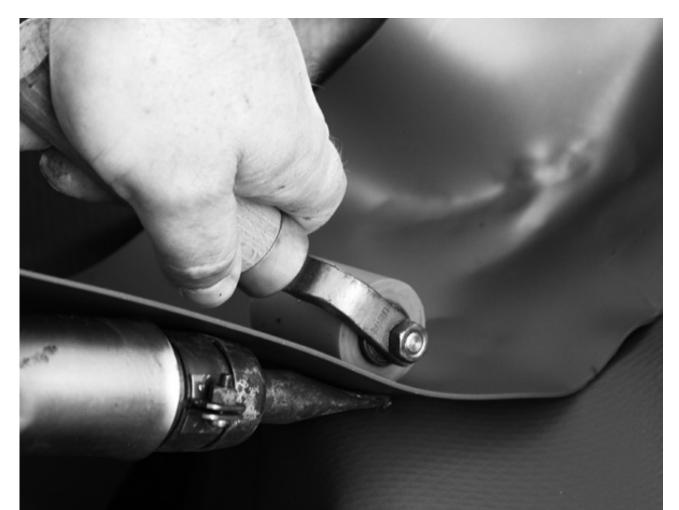
FINISHES AND SOLVENTS

SOLVENT, CLEANER, SEALANT





Code	Formato	Characteristics	
1 x 20 kg		contact glue	
	1 x 12 kg	Polyurethane (PUR) glue	
	12 x 1 lt.	Cleaner	
	1 x 1 lt.	Adhesion promoter	
12 x 310 ml		Sealant	



THE GROUP NÜMBERS

Transitioning towards a sustainable economy in the Industry 4,0 era entails significant changes, locky's challenge is to combine the speed of digital evolution and the attention to environmental impacts with long

term goals."

Enrico Frizzera, CEO Manni Group.

Housen

A Mariana

Operational comparises

14

Countries served

78

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