

PREFABRICATED THERMAL INSULATION COUPLED WITH WATERPROOF MEMBRANE

GRANTS *LEED* CREDITS

PROBLEM



HOW TO THERMALLY INSULATE ROOFS AND EXPEDITE LAYING OPERATIONS ALSO ON HEAT-SENSITIVE INSULATORS

ISOBASE and ISOINCLINED thermal insulators reduce laying operations as they are pre-coupled to a polymer-distilled bitumen waterproofing membrane and are both predisposed for coupling on heat-sensitive expanded polystyrene insulation.

SOLUTION

The top face of ISOBASE constant depth thermal insulation panels is already coupled with a polymer-distilled bitumen membrane, with overlap edging on two sides so that the membranes can be overlapped between adjacent elements.

The insulation is produced in four versions:

- · Self-extinguishing sintered expanded polystyrene
- · Self-extinguishing extruded expanded polystyrene
- · Self-extinguishing sintered expanded polystyrene with added graphite
- · Continuously laminated self-extinguishing expanded polyurethane
- · Polyiso foam.

The coupled waterproof membrane can:

- be reinforced with glass mat
- be reinforced with "non-woven" polyester fabric, stabilised with fibreglass, without "shrinkage"

ISOBASE TEGOLA is produced specifically for undertile insulation. In this case the five types of insulation are bonded to a polyesterreinforced waterproof membrane coated with slate chippings.

ISOINCLINED is an expanded polystyrene panel of variable thickness because the top face, coupled with the membrane, is inclined. It can be coupled with membranes reinforced with fibreglass mat and also with membranes reinforced with non-woven polyester fabric. In both panels, the coupling between the membrane and the insulation is obtained at high temperature.

ISOBASE and ISOINCLINED, which are suitable for insulating and waterproofing the roofs of buildings, combine waterproofing and insulation in a single product and reduce site work. They are compatible with polymerdistilled bitumen waterproofing coatings and with multi-layer bitumen coatings.

The on-site bonding of subsequent layers is made easy thanks to the very thick polymerdistilled bitumen membrane with high adhesive power. Therefore, the waterproofing layer can be left visible, the wind won't detach it, the gravel ballasting layer is no longer necessary and light structures not designed to bear excessive loads can easily be waterproofed.

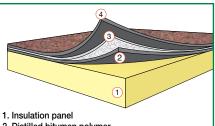
ISOBASE TEGOLA is the version designed to solve the problems of under-tile waterproofing and thermal insulation.

It can be produced with all five types of insulation. The top waterproof membrane consists of polymer-bitumen reinforced with "non-woven" polyester fabric stabilised with fibreglass.

The visible face of the membrane is treated with slate mineral chippings hot bonded at a temperature of 180°C, with the exception of a slate-free lateral strip protected with a strip of Flamina film to be flame melted to seal the joint.

The mineral coating serves as an anti-slip surface and provides solid anchorage for cement mortar when tiles are laid directly on the insulation.

Once a seamless joint is obtained with the edge or with the flame-sealed connecting strips, you immediately obtain a waterproof, resistant surface. This surface will protect the work against sudden rain and enables the tile layer to be laid very quickly.



- 2. Distilled bitumen polymer.
- 3. Reinforcement
- 4. Polymer-distilled bitumen with hot-bonded slate

ISOBASE TEGOLA guarantees efficient heat insulation and reliable waterproofing protection even in the case of shifted or broken tiles.

For the laying systems, please consult our specific technical documentation (see technical specifications no. 7).





METHOD OF USE

In addition to the traditional bonding and mechanical securing systems used in the waterproofing sector, **ISOBASE** can be flame secured on the following innovative INDEX membranes:

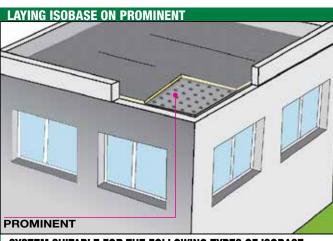
- PROMINENT
- TECTENE BV STRIP
- SELFTENE BV BIADESIVO (BIADHESIVE)
 PROMINENT is used to lay heat-resistant

ISOBASE panels, such as ISOBASE PUR and ISOBASE THERMOPLUS, while for ISOBASE PSE, ISOBASE PSE GRAPHITE and ISOBASE PSE/EX the TECTENE BV STRIP product will be used.

Flame-gluing on special INDEX membranes allows easy laying

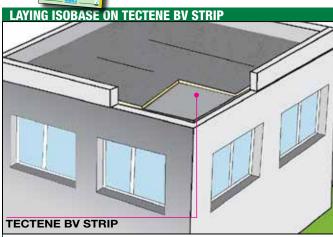
even on pitched roofs with considerable savings in transport costs and laying times.

You no longer have to wait for the bitumen to melt in the boiler and there's no need to transport either oxidised bitumen or the boiler. By using a roll of the special new vapour barriers - PROMINENT and TECTENE BV STRIP - you simultaneously obtain both vapour tightness and bonding of the heat insulation.



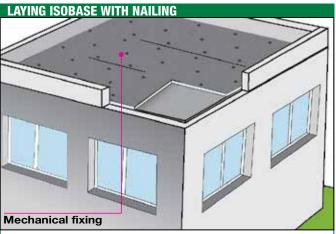
SYSTEM SUITABLE FOR THE FOLLOWING TYPES OF ISOBASE

- ISOBASE PUR and ISOBASE TEGOLA PUR
- ISOBASE THERMOPLUS and ISOBASE TEGOLA THERMOPLUS



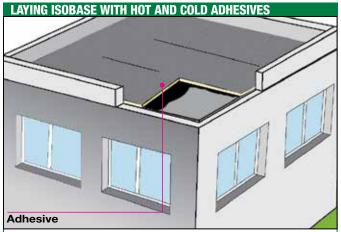
SYSTEM SUITABLE FOR THE FOLLOWING TYPES OF ISOBASE

- IOSOBASE PSE and ISOBASE TEGOLA PSE
- ISOBASE PSE/EX and ISOBASE TEGOLA PSE/EX on flat roofs
- ISOBASE PSE GRAPHITE and ISOBASE TEGOLA PSE GRAPHITE



SYSTEM SUITABLE FOR THE FOLLOWING TYPES OF ISOBASE

- ISOBASE PSE and ISOBASE TEGOLA PSE
- ISOBASE PSE/EX and ISOBASE TEGOLA PSE/EX
- ISOBASE PSE GRAPHITE and ISOBASE TEGOLA PSE GRAPHITE
- ISOBASE PUR and ISOBASE TEGOLA PUR
- ISOBASE THERMOPLUS and ISOBASE TEGOLA THERMOPLUS



SYSTEM SUITABLE FOR THE FOLLOWING TYPES OF ISOBAȘE

- ISOBASE PUR and ISOBASE ISOBASE PUR
- ISOBASE THERMOPLUS and ISOBASE TEGOLA THERMOPLUS
- ISOBASE PUR and ISOBASE TEGOLA PUR
- ISOBASE PSE GRAPHITE and ISOBASE TEGOLA PSE GRAPHITE
- ISOBASE PSE and ISOBASE TEGOLA PSE
- ISOBASE PSE/EX and ISOBASE TEGOLA PSE/EX
- ISOBASE THERMOPLUS and ISOBASE TEGOLA THERMOPLUS

in coldstate on surface with MASTICOLL

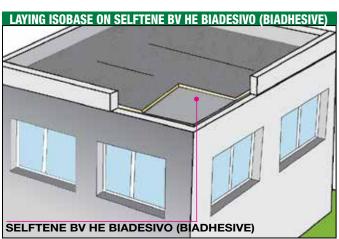
melted oxidised

The use of SELFTENE BV BIADESIVO offers another possibility: the self-adhesive vapour barrier membrane on which the insulating panels can be glued by simple pressure without using other materials.

Hot bitumen, adhesives or flames are no longer used. Simply remove the silicone-coated film protecting the upper face of the membrane and press the insulating panel on it.

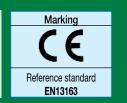
It is a suitable solution to fix all types of **ISOBASE**.





ISOBASE **PSE**





ISOBASE TEGOLA **PSE**



DESCRIPTION

ISOBASE PSE is a panel of uniform thickness, made of self-extinguishing sintered expanded polystyrene coupled hot to a waterproofing membrane in polymer-distilled bitumen with side and head overlaps. The flame can thus be used on the top surface without burning the insulator.

ISOBASE PSE offers strong insulation, is very flexible, resistant to compression and can be used both under exposed coverings and under heavy protection. It offers good dimensional stability. Also in the case of damp it undergoes negligible dimensional changes because it absorbs very little water.

ISOBASE PSE is resistant to compression. It is made of high density expanded polystyrene, type 120 can be used under terraces which will be walked on. The type 80 type should be used under visible surfaces.

Sintered expanded polystyrene is an inexpensive insulation product that has been tested for years on roofs; it is prefabricated by joining it with the waterproof membrane, reducing its sensitivity to the heat of the flame used to lay the waterproof covering, saving on insulation

and laying costs.

ISOBASE PSE may be bonded to the substrate with the traditional system of spreading sufficiently cooled molten oxidised bitumen or with the cold bituminous adhesive MASTICOLL in case the application is under heavy protection, while it must be nailed if the layers include an exposed covering. The innovative flame-gluing system on the multipurpose vapour barrier TECTENE BV STRIP is more recent (further information on laying the insulation material can be consulted in the technical documents of INDEX).

After securing the insulation on the laying surface and accurately lining up the elements, the overlapping edges should be flame bonded. Subsequently the second waterproofing layer is flame bonded onto the surface astride the sealing strips.

ISOBASE TEGOLA PSE is the version self-protected with mineral slate, designed for undertile laying.

Panel size:

- 1 000×1 000 cm
- 2 000×1 000 cm

Resistan	ce to foot traffic	
Stability		
Fire resis	stance	
8		
Applicat	ion difficulty	
Water at	osorption	

CERTIFICATION

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					TEC	CHN	IICA	L C	HAF	RAC	TER	IST	ICS										
	Regulation		ISOBASE PSE 80										ISOBASE PSE 120										
Intended use						- fo	r all us	es -									- fo	r all us	es -				
Designation code	EN 13163	EPS	-EN 1	3163-1	(2)-L(3)-W(3)	-S(5)-F	P(30)-D	S(N)5-	BS125	5-CS(1	0)80	EPS-	-EN 13	163-T	(2)-L(3)-W(3)-	S(5)-P	(10)-D	S(N)5-I	BS170	-CS(10)120
Compression strength 10% compression	EN 826				2	:80 KF	a [CS	(10)80]				EPS-EN 13163-T(2)-L(3)-W(3)-S(5)-P(10)-DS(N)5-BS170-CS(10)120 ≥120 KPa [CS(10)120]										
Dimensional stability 48 h at 23°C at 90% R.H.	EN 1604					±0.59	% [DS	(N)5]									±0.59	% [DS	S(N)5]				
Bending strength	EN 12089				2	≥125 K	(Pa [E	S125]				≥170 KPa [BS170]										
Perpendicular tensile strength of faces							-						-										
Thermal conductivity λ	EN 12667					0.0	37 W/i	mK					0.035 W/mK										
Thickness T(1) (mm)		30	40	50	60	70	80	90	100	120	140	160	30	40	50	60	70	80	90	100	120	140	160
Thermal resistance \mathbf{R}_{D} (m ² K/W)		0.82	1.09	1.36	1.63	1.90	2.17	2.44	2.71	3.26	3.80	4.34	0.87	1.16	1.44	1.73	2.01	2.30	2.58	2.87	3.44	4.01	4.58
Thermal capacity (KJ/K·m²)		0.65	0.86	1.09	1.30	1.51	1.73	1.94	2.16	2.60	3.02	3.46	0.79	1.06	1.32	1.58	1.85	2.11	2.38	2.64	3.17	3.70	4.22
Water absorption in the long term	EN 12087		<5%								<5%												
Water vapour transmission	EN 12086		μ = 30÷70										μ = 30÷70										
Reaction to fire	EN 13501-1					Eur	oclass	E _{d2}									Eur	oclass	E _{d2}				

Specific characteristics of the polymer-distilled bitumen membrane

Impermeability	EN 1928-B					60 kPa							60 kPa		
Permeability to vapour	EN 1931					$\mu = 20,000$							$\mu = 20,000$		
Thermal conductivity						0.2 W/mK							0.2 W/mK		
Туре		V2	V 3	P3	P4	MIN P3.5	MIN P4.0	MIN P4.5	V2	V3	P3	P4	MIN P3.5	MIN P4.0	MIN P4.5
Thermal capacity (KJ/K·m²)		2.60	3.90	3.90	5.20	4.20	4.80	5.40	2.60	3.90	3.90	5.20	4.20	4.80	5.40

ISOBASE PSE/EX





ISOBASE TEGOLA PSE/EX



DESCRIPTION

ISOBASE PSE/EX is a panel of uniform thickness, made of single layer self-extinguishing extruded expanded polystyrene coupled hot to a waterproofing membrane in polymer-distilled bitumen with side and head overlaps. The flame can thus be used on the top surface without burning the insulator.

ISOBASE PSE/EX is economical because it has a high specific thermal resistance and compared to other insulation products, it can be used in thinner layers. It offers good dimensional stability. Also in the case of damp it undergoes negligible dimensional changes because it absorbs very little water.

ISOBASE PSE/EX is extremely resistant to compression. It is made of high density extruded polystyrene and is ideal for use under terraces which will be walked on, driven over or ballasted with gravel.

It is prefabricated by joining it with the waterproof membrane, reducing its sensitivity to the heat of the flame used to lay the waterproof covering, saving on insulation and laying costs. ISOBASE PSE/EX may be bonded to the substrate with the traditional system of spreading sufficiently cooled molten oxidised bitumen or with the cold bituminous adhesive MASTICOLL in case the application is under heavy protection, while it must be nailed if the layers include an exposed covering. The innovative flamegluing system on the multipurpose vapour barrier TECTENE BV STRIP is more recent (further information on laying the insulation material can be consulted in the technical documents of INDEX).

After securing the insulation on the laying surface and accurately lining up the elements, the overlapping edges should be flame bonded. Subsequently the second waterproofing layer is flame bonded onto the surface astride the sealing strips.

ISOBASE TEGOLA PSE/EX is the version self-protected with mineral slate, designed for under-tile laying.

Panel size:

- 1 200×1 000 cm
- 1 800×1 000 cm
- 2 400×1 000 cm

Resistance to foot traffic
Stability
Fire resistance
8
Application difficulty
Water absorption

CERTIFICATION

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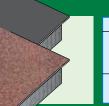


			TECHNICAI	L CHARACT	ERISTICS									
	Regulation		ISOBASE PSE/EX											
Intended use					- for all uses -									
Designation code	EN 13164			XPS EN13164-T(2))-DS(TH)-CS(10/Y)25	50-TR200-WL(T)1,5								
Compression strength 10% compression	EN 826			≥2	50 KPa [CS(10/Y)25	50]								
Dimensional stability 48 h at 23°C at 90% R.H.	EN 1604				DS(TH)									
Bending strength	EN 12089				-									
Perpendicular tensile strength of faces				:	≥200 KPa [TR200	1								
Thermal conductivity λ	EN 12667	0.033	W/mK	0.034	W/mK		0.036 W/mK							
Thickness T(2) (mm)		30	40	50	60	80	100	120						
Thermal resistance \mathbf{R}_{D} (m ² K/W)		0.92	1.22	1.48	1.78	2.23	2.79	3.35						
Thermal capacity (KJ/K·m²)		1.15	1.54	1.92	2.30	3.07	3.84	4.61						
Long term water absorption by immersion	EN 12087		≤1.5% [WL(T)1.5]											
Water vapour transmission	EN 12086		μ = 80											
Reaction to fire	EN 13501-1				Euroclass E _{d2}									

Specific characteristics of the polymer-distilled bitumen membrane

opecine characteristics of the	polymer-distilled bi	tulliell lilellib	lalic									
Impermeability	EN 1928-B					60 kPa						
Permeability to vapour	EN 1931		μ = 20,000									
Thermal conductivity						0.2 W/mk	(
Туре		V2	V2 V3 P3 P4 MIN P3.5 MIN P4.0 MIN P4.5									
Thermal capacity (KJ/K·m²)		2.60	3.90	3.90	5.20	4.20	4.80	5.40				

DBASE SE GRAPHITE







DESCRIPTION

ISOBASE PSE GRAPHITE is a panel of uniform thickness, made of self-extinguishing sintered expanded polystyrene with added graphite, coupled hot to a waterproofing membrane in polymer-distilled bitumen with side and head overlaps. The flame can thus be used on the top surface without burning the insulator.

ISOBASE PSE GRAPHITE offers strong insulation, is very flexible, resistant to compression and can be used both under exposed coverings and under heavy protection. It offers good dimensional stability. Also in the case of damp it undergoes negligible dimensional changes because it absorbs very little water.

ISOBASE PSE GRAPHITE is resistant to compression, is made from high density expanded polystyrene and can be applied on terraces to be walked on.

Sintered expanded polystyrene is an inexpensive insulation product that has been tested for years on roofs; it is prefabricated by joining it with the waterproof membrane, reducing its sensitivity to the heat of the flame used to lay the waterproof covering, saving on insulation and laying costs.

ISOBASE PSE GRAPHITE may be bonded to the substrate with the traditional system of

spreading sufficiently cooled molten oxidised bitumen or with the cold bituminous adhesive MASTICOLL in case the application is under heavy protection, while it must be nailed if the layers include an exposed covering. The innovative flame-gluing system on the multipurpose vapour barrier TECTENE BV STRIP is more recent (further information on laying the insulation material can be consulted in the technical documents of INDEX).

After securing the insulation on the laying surface and accurately lining up the elements, the overlapping edges should be flame bonded. Subsequently the second waterproofing layer is flame bonded onto the surface astride the sealing strips.

ISOBASE TEGOLA PSE GRAPHITE is the version self-protected with mineral slate, designed for under-tile laying.

Panel size:

- 1 000×1 000 cm
- 2 000×1 000 cm

Resistance to foot traffic
Stability
Fire resistance
8
Application difficulty
Water absorption

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				TECHN	IICAL	CHAR	ACTE	RISTIC	S						
	Regulation	ISOBASE PSE GRAPHITE													
Intended use			- for all uses -												
Designation code	EN 13163				EPS-	EN 13163	-T(2)-L(3)-V	V(3)-S(5)-P	(30)-DS(N)	2-BS170-0	CS(10)100				
Compression strength 10% compression	EN 826						≥10) KPa [CS	(10)100]						
Dimensional stability 48 h at 23°C at 90% R.H.	EN 1604	±0.5% [DS(N)5]													
Bending strength	EN 12089		≥125 KPa [BS125]												
Perpendicular tensile strength of faces								-							
Thermal conductivity λ	EN 12667							0.031 W/	mK						
Thickness T(1) (mm)		20	30	40	50	60	70	80	90	100	110	120	140	160	
Thermal resistance $\mathbf{R}_{\text{D}}(\text{m}^2\text{K/W})$		0.66	0.98	1.30	1.63	1.95	2.27	2.59	2.92	3.24	3.56	3.88	4.53	5.17	
Thermal capacity (KJ/K·m²)		0.46	0.68	0.91	1.14	1.37	1.60	1.82	2.05	2.28	2.51	2.74	3.19	3.65	
Long term water absorption by immersion	EN 12087		<5%												
Water vapour transmission	EN 12086	$\mu = 30 \div 70$													
Reaction to fire	EN 13501-1							Euroclass	E _{d2}						
Cassifia abaracteristics of the	المالية التعالم سمية المالية	4	h												

Specific characteristics of the polymer-distilled bitumen membrane

Impermeability	EN 1928-B					60 kPa						
Permeability to vapour	EN 1931		$\mu = 20,000$									
Thermal conductivity						0.2 W/mł	(
Туре		V2	V2 V3 P3 P4 MIN P3.5 MIN P4.0 MIN P4.5									
Thermal capacity (KJ/K·m²)		2.60	3.90	3.90	5.20	4.20	4.80	5.40				

ISOBASE • PUR BIPAPER • PUR BIGLASS





• PUR BIPAPER



DESCRIPTION

ISOBASE PUR is a panel of uniform thickness, made of self-extinguishing polyurethane foam, rolled continuously between two fibreglass mats in the version ISOBASE PUR BIPAPER or between two polythene coated glass mat layers in the version ISOBASE PUR BIGLASS, coupled hot to a waterproofing membrane in polymer-distilled bitumen with side and head overlaps. A flame can thus be used on the top surface without burning the insulator.

ISOBASE PUR, given the same thickness, has the highest thermal resistance that, in this respect, puts it at the top of the range of products available.

ISOBASE PUR is resistant to compression as it is made from high density foam, and can be applied on terraces to be walked on.

The polyurethane foam of **ISOBASE PUR** is heat-resistant (+100°C) and for short periods it can withstand peaks of 250°C. This makes it the insulator of choice to be flame-glued in awkward conditions of steep pitching or in similar situations. It may be bonded to the substrate with the traditional system, on a spreading of oxidised bitumen or with the cold bituminous

Permeability to vapour

Thermal capacity (KJ/K·m²)

Thermal conductivity

Type

EN 1931

٧2

2.60

V3

3.90

P3

3.90

adhesive MASTICOLL or, more conveniently, with the innovative flame laying system on the multipurpose vapour barrier PROMINENT, which is to be preferred especially on pitched roofs. Mechanical fixing is preferable when applying on timber or fretted metal decks (further information on laying the insulation material can be consulted in the technical documents of INDEX).

After securing the insulation on the laying surface and accurately lining up the elements, the overlapping edges should be flame bonded. Subsequently the second waterproofing layer is flame bonded onto the surface astride the sealing strips.

ISOBASE TEGOLA PUR is the version selfprotected with mineral slate, designed for under-tile laying.

Panel size:

- 1 200×1 000 cm
- 2 400×1 000 cm

(*) Thicknesses 60, 80, 100 and 120 mm are only available with fibreglass mat finish.

Resistance to foot traffic
Stability
Fire resistance
8
Application difficulty
Water absorption

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			TECHNICAL	L CHARACT	ERISTICS								
	Regulation			ı	SOBASE PUI	R							
Intended use			- for all uses -										
Designation code	EN 13164			PUR EN1316	5-T(2)-DS(TH)2-CS(1	0/Y)150-TR40							
Compression strength 10% compression	EN 826			≥1	50 KPa [CS(10/Y)1	50]							
Dimensional stability 48 h at 23°C at 90% R.H.	EN 1604				DS(TH)2								
Bending strength	EN 12089				-								
Perpendicular tensile strength of faces					≥40 KPa [TR40]								
Thermal conductivity $\boldsymbol{\lambda}$	EN 12667		0.028	W/mK			0.026 W/mK						
Thickness T(2) (mm)		30	40	50	60 (*)	80 (*)	100 (*)	120 (*)					
Thermal resistance $R_{\text{D}}(\text{m}^2\text{K/W})$		1.08	1.44	1.80	2.16	3.09	3.86	4.63					
Thermal capacity (KJ/K·m²)		1.34	1.79	2.24	2.69	3.58	4.48	5.37					
Long term water absorption by immersion	EN 12087	'			<2%								
Water vapour transmission	EN 12086				$\mu = 100$								
Reaction to fire	EN 13501-1				Euroclass F								
Specific characteristics of the	polymer-distilled b	itumen membrane											
Impermeability	EN 1928-B				60 kPa								

u = 20.000

0.2 W/mK

MIN P4.0

4.80

MIN P3.5

4.20

P4

5.20

MIN P4.5

5.40

SOBASE THERMOPLUS PUR





SOBASE TEGOLA THERMOPLUS PUR



DESCRIPTION

ISOBASE THERMOPLUS PUR is a sandwich panel of uniform thickness consisting of an insulating component made of polyiso foam, expanded without using CFC or HCFC, coated on both faces with a Duotwin® coating, coupled hot to a waterproof membrane based on polymer-distilled bitumen with side and head overlaps. A flame can thus be used on the top surface without burning the insulator.

ISOBASE THERMOPLUS PUR is very resistant to heat transmission, making it particularly suitable to obtain a high thermal resistance also with limited thickness.

ISOBASE PUR is compression resistant, can be used under exposed coverings and coverings weighted down with heavy protection.

The polyiso foam is highly insulating and resists prolonged temperatures of up to 100 C and for short periods it can withstand peaks of 250°C. This makes it the insulator of choice to be flame-glued in awkward conditions of steep pitching or in similar situations. It may be bonded to the substrate with the traditional system, on a spreading of oxidised bitumen or with the cold bituminous adhesive MASTI-

COLL or, more conveniently, with the innovative flame laying system on the multipurpose vapour barrier PROMINENT, which is to be preferred especially on pitched roofs. Mechanical fixing is preferable when applying on timber or fretted metal decks (further information on laying the insulation material can be consulted in the technical documents of INDEX).

After securing the insulation on the laying surface and accurately lining up the elements, the overlapping edges should be flame bonded. Subsequently the second waterproofing layer is flame bonded onto the surface astride the sealing strips.

ISOBASE TEGOLA THERMOPLUS PUR is the version self-protected with mineral slate, designed for under-tile laying.

Panel size: 1 200×1 000 cm

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		TE	CHNICAL CH	ARACTERIST	ics		
	Regulation	ISOBASE THERMOPLUS PUR					
Intended use		- for all uses -					
Designation code	EN 13164	PUR EN13165-T(2)-DS(TH)2-CS(10/Y)130-TR40					
Compression strength 10% compression	EN 826	≥130 KPa [CS(10/Y)130]					
Dimensional stability 48 h at 23°C at 90% R.H.	EN 1604	DS(TH)2					
Bending strength	EN 12089	-					
Perpendicular tensile strength of faces		-					
Thermal conductivity λ	EN 12667	0.023 W/mK					
Thickness T(2) (mm)		40	50	60	80	100	120
Thermal resistance R _D (m ² K/W)		1.75	2.15	2.60	3.45	4.35	5.20
Thermal capacity (KJ/K·m²)		1.79	2.24	2.69	3.58	4.48	5.37
ong term water absorption by immersion	EN 12087	<1%					
Water vapour transmission	EN 12086	μ = 148					
Reaction to fire	EN 13501-1	Euroclass F					
Specific characteristics of the	polymer-distilled b	itumen membrane					
mpermeability	EN 1928-B	60 kPa					
Permeability to vapour	EN 1931	μ = 20,000					
Thermal conductivity		0.2 W/mK					

MIN P3.5

4.20

MIN P4.0

4.80

P4

5.20

٧2

2.60

V3

3.90

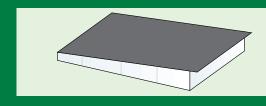
P3

3.90

Type

Thermal capacity (KJ/K·m²)

MIN P4.5





OINCLINED



DESCRIPTION

ISOINCLINED PSE is a multifunction panel of variable thickness, coupled hot to a waterproofing membrane in polymer-distilled bitumen, reinforced with glass-fibre mat or with "nonwoven" polyester stabilised with glass fibre with side and head overlaps. A flame can thus be used on the top surface without burning the insulator.

It integrates the thermal insulation properties of sintered expanded polystyrene, acting as an inclined layer obtained with the special shape of the panel of variable thickness with the top face inclined.

ISOINCLINED PSE is used in both new builds or renovation jobs. In the first case, its choice is dictated by the need to form an inclined layer without excessively loading the structure with concrete slabs, which are heavier even if light-

ened concrete is used. In renovation jobs, it is often more convenient to redesign the profile of a flat roof, with dips that generate permanent puddles, by applying a light panel that can remain under an exposed covering.

ISOINCLINED PSE may be bonded to the substrate with the traditional system of spreading sufficiently cooled molten oxidised bitumen or with the cold bituminous adhesive MASTICOLL in case the application is under heavy protection, while it must be nailed if the layers include an exposed covering. The innovative flamegluing system on the multipurpose vapour barrier TECTENE BV STRIP is more recent (further information on laying the insulation material can be consulted in the technical documents of INDEX).

Panel size: variable, based on the surfaces to be insulated.

The material is manufactured on request, in which case the following information is required:

- · Lay-out of the covering with the following indications:
- Measurements
- Position of drains
- Ridge
- Type of sintered expanded polystyrene
- Minimum thickness and maximum thickness
- Type of membrane to be coupled

ATTENTION. Pitches lower than 1% do not guarantee the correct drainage of water.



The data in this publication is the result of laboratory tests or observations on site and this does not guarantee the repeatability of the results in equivalent systems.

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •



T. +39 045 8546201 - F. +39 045 518390

Internet: www.index-spa.com Informazioni Tecniche Commerciali tecom@indexspa.it Amministrazione e Segreteria index@indexspa.it Index Export Dept. index.export@indexspa.it











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