

100

PRODUCT CATALOGUE

FIBRANxps thermal insulation - product
overview and system solutions

FIBRANxps turquoise thermal insulation

A high quality and sustainable energy shield for the complete building envelope!

Extruded polystyrene thermal insulation, marked with the international abbreviation XPS, is generally implemented in applications where installing other types of insulations would be useless - under extreme loads, in humid environments and even below groundwater level.

While FIBRANxps panels are manufactured with lightweight thermal insulating foam, they are extremely solid and water non-absorbent. **Their different forms and surfaces are specially designed for different applications.**



- **Smooth** surfaced panels are intended for applications where thermal insulation is in contact with soil, moisture and even below groundwater level. Additional protection against water, moisture and soil is not necessary.



- **Rough** surfaced panels are used in applications requiring good adhesion for further plaster finishing or concrete pouring.



- **Grooved** surfaced panels are intended for better adhesion of heavier cladding.

Special Characteristics of FIBRANxps

Due to the special cellular structure!

- FIBRANxps thermal insulation is made of hard polystyrene foam that consists of extremely small - only a few microns large - cells. **Its cellular structure is more than 97% closed.** This makes the foam nearly non-absorbent and enables it to be applied at the outer side of the waterproofing: within inverted flat roof systems as well as underground, below the foundation slab, and even fully submerged in groundwater.
- Each cell contains dry air, which provides excellent thermal behaviour that enables FIBRANxps to maintain its thermal properties for not only 25 years, as required by the recent product standards. The thermal conductivity, lambda, remains unchanged over a period of **50 years**. This is equivalent to the expected life span of a building.
- Compressive strength of the FIBRANxps panels is stable over time, even under heavy loads. **This makes the panels suitable for use under permanent static as well as dynamic loads** under foundations of heavier buildings.

Easy implementation for comfortable living

We think of the future!

Durable insulation is extremely important in both the construction of nearly zero-energy buildings (nZEB) and in sustainable construction. During a building's entire life cycle, it ensures permanent and unchanged comfort of living and significantly impacts both building life cycle analyses - LCA and life cycle costs - LCC. Durable insulations extend the life span of buildings and reduce investment costs.

FIBRANxps 300-L



FIBRANxps INCLINE



FIBRANxps ETICS GF



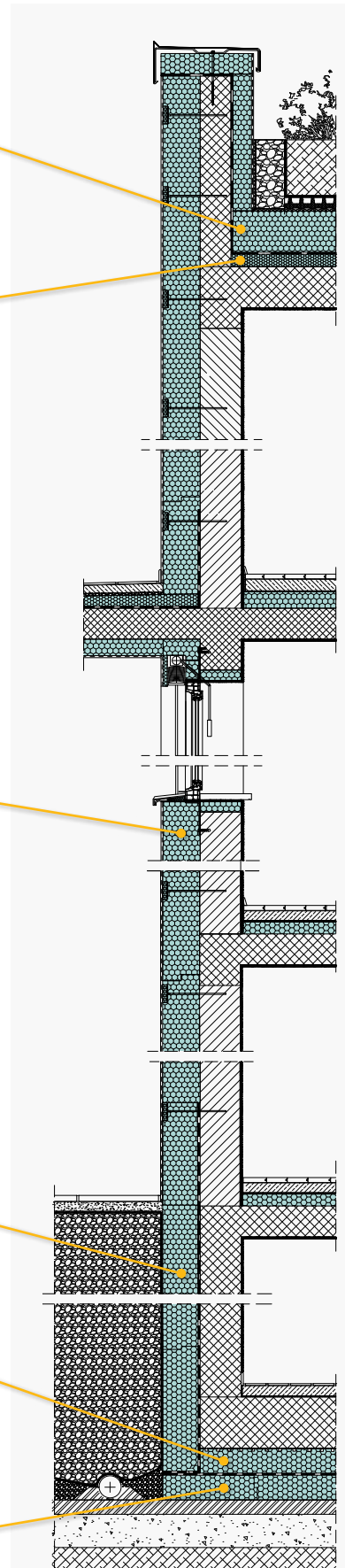
FIBRANxps 300-L



FIBRANxps SEISMIC



FIBRANxps 400-L





Monitored and confirmed constant quality level

For a period of 50 years!

FIBRANxps products fully comply with Regulation 305/2011/EU (laying down harmonised conditions for the marketing of construction products and periodic verification of product quality) and are certified for:

- **CE marking** of the entire product range,
- **Conformity system 3** in accordance with AVCP that regulates quality control of products, evaluation and marking of construction products, as required by the European harmonized system of assessment and verification of continuous quality,
- in demanding construction assemblies which require special testing of their characteristics in accordance with the AVCP system 1+. On this basis, FIBRANxps products have been issued the European Technical Assessment ETA-17/0910. Also, the DIBt, the German institute for civil engineering, has issued various technical approvals for the use of FIBRANxps products in inverted flat roofs (Z-23.31-1805), in the perimeter area (Z-23.33-1806) as well as below the foundation slab (Z-23.34-1807).

The ETA is required for applications of thermal insulation in demanding construction assemblies:

- under the foundation slab, also in case of high groundwater,
- below grade along the perimeter,
- in the flat inverted roof assembly, also in green roofs and below parking lots.

FIBRANxps panels are constantly monitored by several institutes:



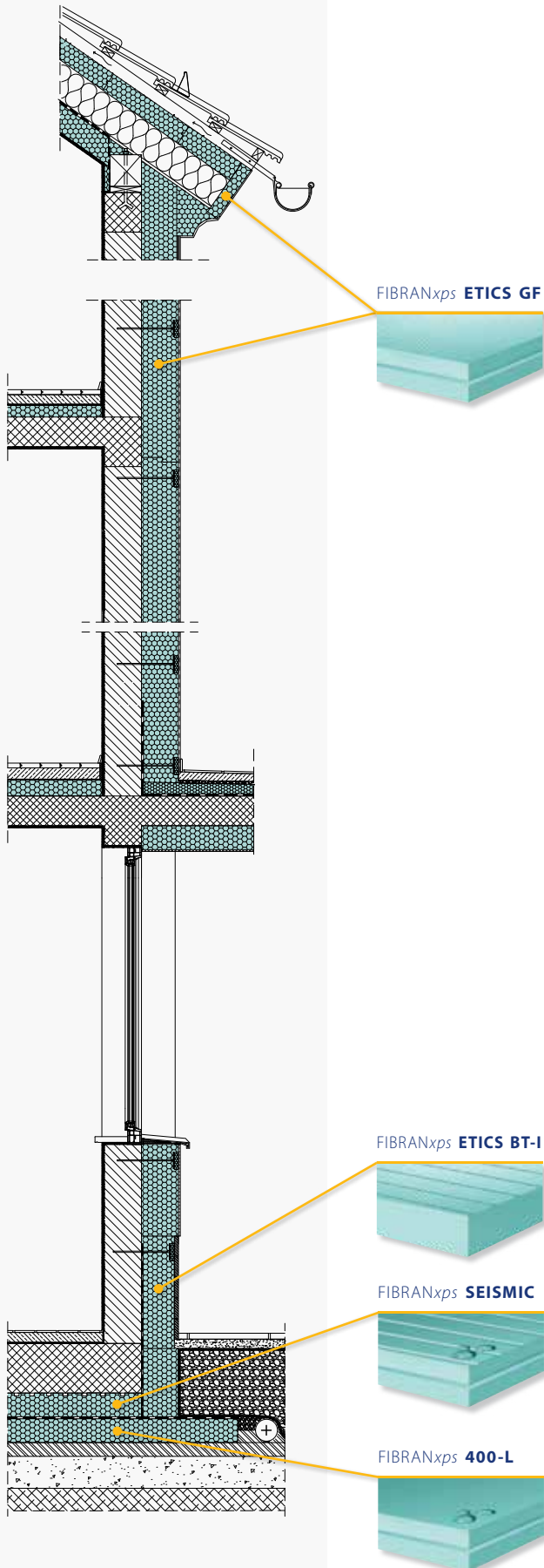
Production is harmless to health and the environment

... by using environmentally friendly raw materials!

From the very beginning of the FIBRANxps production, we considered ecological principles. Due to the eco-policy of the raw materials, our XPS boards are:

- **HBCD free** (no Hexabromocyclododecan),
- **HFC free** (no Hydrofluorocarbon).

FIBRANxps products are manufactured using the so-called CO₂ technology and have an extremely low impact on global warming- **Global Warming Potential, GWP<5** as well as zero effect on ozone depletion- **Ozone depletion potential, ODP=0**.



Recommended applications

		300-I	300-L	400-L	500-L	700-L	INCLINE	SEISMIC	MAESTRO	ETICS	FABRIC
FLOORS and FOUNDATIONS ^{1, 4, 5}											
Floors	Interior floors	•									
	Basement floors	•	•								
	Floors with underfloor heating	•	•								
	Extra loaded floors (parking lots, cold storages)				•	•					
Underground	Insulation under foundation slab, SEISMIC foundation pillow			•	•	•		•			
	Insulation under traffic areas (bridges, roads, railways)				•	•					
	Swimming pools		•	•	•						
	Airport runways and hangars					•					
ROOFS ^{2, 4}											
Flat roofs	Inverted flat roofs		•	•	•	•	•				
	Conventional flat roofs		•	•	•	•	•				
	DUO roofs (nZEB, Passive houses)		•	•	•	•	•				
	PLUS roofs (reconstructions, upgrades)		•	•	•	•	•				
	Green roofs		•	•	•	•	•				
	Terraces		•	•	•	•	•				
Pitched roof	Pitched roof reconstruction from the inside, eaves									•	
	Massive and classical lightweight pitched roofs	•							•	•	
	Inner soffit insulation								•		
WALLS ^{3, 1, 4}											
Under-ground	Perimeter (outside the cellar walls also in case of groundwater)		•		•	•					
	Vertical insulation of foundations		•								
External walls	Façade plinth									•	
	ETICS rendered façades									•	
	Façade with stone cladding									•	
	Visible concrete (inner or sandwich insulation)									•	
	Cavity walls									•	
	Internal walls adjacent to unheated space									•	
	Thermal bridges (balconies, windows and doorjambs, concrete columns and tie-beams)									•	
INDUSTRIAL USE ⁴											
	Panels, window/door frames, door leaves, containers, tailor made products, ...										•

¹ See brochure: **0100 PRODUCTS CATALOG**
² See brochure: **0111 INVERTED FLAT ROOFS**
³ See brochure: **0130 FAÇADE**
⁴ See brochure: **0150 BELOW GRADE**
⁵ See brochure: **0151 SEISMIC FOUNDATION PILLOW**

Specific board surfaces and edges are designed for specific applications

FIBRANxps **300-L, 400-L, 500-L, 700-L**

boards are designed for constructions in contact with soil and in inverted flat roof assemblies. Depending on the expected loads, you can choose the adequate compressive strength ranging from 300 to 700 kPa.

FIBRANxps **INCLINE**

boards allow a precise execution of slopes. They are a substitute for inclined concrete, reducing the total weight and increasing the thermal properties of construction assemblies. Sloping board are available starting from 1 cm board thickness.

FIBRANxps **SEISMIC**

boards are a key component of the SEISMIC foundation pillow system solution. They have a smooth bottom surface, while grooves are cut into the top panel surface to provide good concrete adhesion.

FIBRANxps **MAESTRO**

due to their smooth surface, MAESTRO boards are designed for applications where finishing is not required. Often, they are used as visible thermal insulation in large farm buildings.

FIBRANxps **ETICS GF** **ETICS BT-I**

boards with rough (waffle) structured surface that enable good adhesion are designed for construction assemblies with a finishing layer (ETICS and ITICS system). A further and important advantage of the ETICS boards is its T3 highest class thickness tolerance, ensuring high-quality façade construction. Based on the weight of the finishing layer (plastered façade / stone cladding), we choose between ETICS GF and BT.

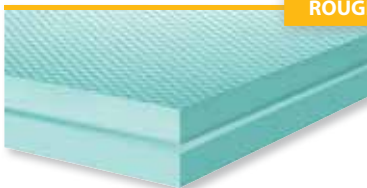
FIBRANxps **FABRIC**

boards are designed for industrial use and further processing.

Surface

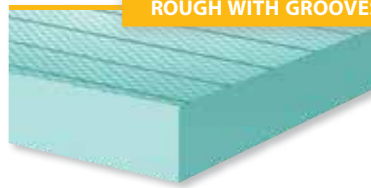
FIBRANxps **ETICS GF**

ROUGH



FIBRANxps **ETICS BT-I**

ROUGH WITH GROOVES



FIBRANxps **INCLINE**

HOT WIRE CUT



FIBRANxps **300-L, 400-L, 500-L, 700-L**

SMOOTH



FIBRANxps **SEISMIC 400-L (500-L, 700-L)**

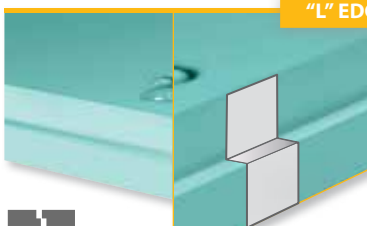
SMOOTH WITH GROOVES



Edge

FIBRANxps **300-L, 400-L, 500-L, 700-L**

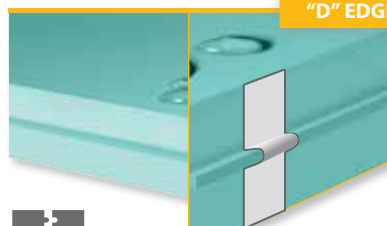
"L" EDGE



Shiplap edged joints prevent thermal bridges formation in single layer installation applications.

FIBRANxps **MAESTRO**

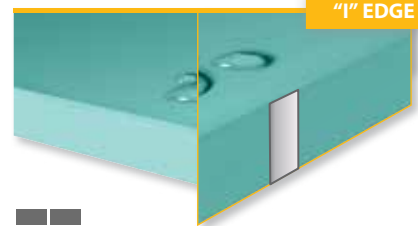
"D" EDGE



Tongue and groove edged joints prevent linear thermal bridges formation and enable smooth roof and ceiling applications.

FIBRANxps **300-I**

"I" EDGE



Straight edge boards are used in multilayer applications with staggered (brickwork) joints.

Products overview

FIBRAN^{xps} 300-L



* XPS-EN13164-T1-CS(10\Y)300-CC(2/1,5/50)130-DS(70,90)-DLT(2)5-TR400-WL(T)0,7-WD(V)1-FTCD1-MU150

EAN code 52053811_____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
09471	30	14	10,50	12	126	250	A
09594	40	10	7,50	12	90	300	A
02113	50	8	6,00	12	72	300	A
02120	60	7	5,25	12	63	300	A
02151	80	5	3,75	12	45	300	A
02175	100	4	3,00	12	36	300	A
02182	120	3	2,25	14	31,5	300	A
02199	140	3	2,25	12	27	300	A
09754	160	2	1,50	16	24	300	A
09679	180	2	1,50	14	21	300	A
09938	200	2	1,50	12	18	300	A

• Ship-lap edge, "L" profile • Smooth surface • Board's dimensions **1250 x 600** [mm]

FIBRAN^{xps} 300-I



* XPS-EN13164-T1-CS(10\Y)300-CC(2/1,5/50)130-DS(70,90)-DLT(2)5-TR400-WL(T)0,7-WD(V)1-FTCD1-MU150

EAN code 52053811_____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
02281	20	20	15,00	12	180	250	A
02304	30	14	10,50	12	126	250	A
02311	40	10	7,50	12	90	300	A
02328	50	8	6,00	12	72	300	A
02335	60	7	5,25	12	63	300	A
02359	80	5	3,75	12	45	300	A
02366	100	4	3,00	12	36	300	A

• Straight edge, "I" profile • Smooth surface • Board's dimensions **1250 x 600** [mm]

* Example of product labeling according to EN 13164.

Delivery: **A** – in stock; **B** – deliverable in 6 weeks

Thermal conductivity λ_D and other key physical characteristics are listed in brochure of FIBRAN^{xps} Technical data and fields of use, and other technical documentation at www.fibran.com.

IMPORTANT**Thermal insulation for heavy loads and humid environment****RECOMMENDED USE:****FLAT ROOFS:**

- roofs with exposed but shaded waterproofing membrane,
- inverted roofs with various surfaces (inverted warm flat roofs, roof terraces, green roofs).

See brochure:

0111 INVERTED FLAT ROOFS

Instructions for installation of
FIBRANxps thermal insulation boards

FLOORS:

- underfloor heating,
- basement floors, workshop floors, warehouse and industrial buildings floors.



Full utilization of your roof - lining the inverted flat roof with FIBRANxps 300-L thermal insulation.

BELOW GRADE CONSTRUCTION:

- underneath foundation slabs,
- vertical foundation insulation,
- waterproofing membrane protection and thermal insulation of perimeter basement wall,
- thermal insulation below ground, even if high ground water is present.

See brochure:

0150 BELOW GRADE

Instructions for installation of
FIBRANxps thermal insulation boards



Thermal insulation of warehouse floors using FIBRANxps 300-L.



Solid, almost non-absorbent FIBRANxps 300-L insulation is a mechanical waterproofing membrane protection and permanent thermal protection of below grade parts of the building even in high ground water.

FLAT ROOFS:

- **OPTIMO** shaded roofs with multilayer insulation (underlaying with the use of INCLINE boards).

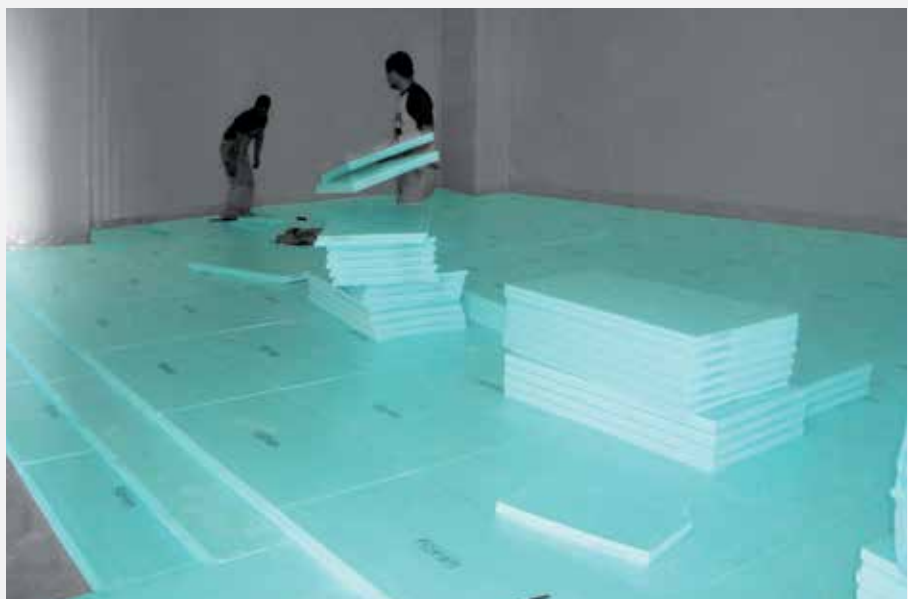
See brochure:

0111 INVERTED FLAT ROOFS

Instructions for installation of
FIBRANxps thermal insulation boards

FLOORS**in case of multilayering:**

- basement floors,
- heavy load insulation of cold attics,
- underfloor heating.



Thermal insulation boards with straight edges are used with multiple layer applications.

FIBRAN^{xps} 400-L

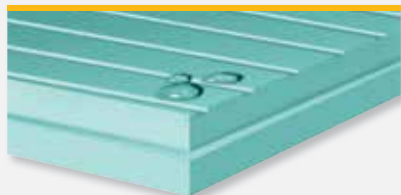


* XPS-EN13164-T1-CS(10\Y)400-CC(2/1,5/50)155-DS(70,90)-DLT(2)5-TR400-WL(T)0,7-WD(V)1-FTCD1-MU150

EAN code 52053811_____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
09440	60	7	10,50	12	126	400	A
09457	80	5	7,50	12	90	400	A
10446	100	4	6,00	12	72	400	A
10330	120	3	4,50	14	63	400	A
05879	140	3	4,50	12	54	400	B
07576	160	2	3,00	16	48	400	B
–	180	2	3,00	14	42	400	B
–	200	2	3,00	12	36	400	B

- Ship-lap edge, “L” profile
- Smooth surface
- Board’s dimensions **2500 x 600** [mm]
- Dimensions upon request **1250 x 600** [mm]

FIBRAN^{xps} SEISMIC 400-L



* XPS-EN13164-T1-CS(10\Y)400-CC(2/1,5/50)155-DS(70,90)-DLT(2)5-WL(T)0,7-WD(V)1-FTCD1-MU150

EAN code 52053811_____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
162322	60	7	10,50	12	126	400	A
161882	80	5	7,50	12	90	400	A
–	100	4	6,00	12	72	400	A
246336	120	3	4,50	14	63	400	A
246343	200	2	3,00	12	36	400	B

- Ship-lap edge, “L” profile
- Smooth surface with grooves
- Board’s dimensions **2500 x 600** [mm]

- **SEISMIC** boards of higher compression strength (**500-L**, **700-L**) are also available.

Formwork element for time and cost efficient **thermal insulation of the foundation slab**.

FIBRAN^{xps} FORM



Description	Width x Height x Thickness [mm]	Quantity in one packet [m]	Delivery
FORM elements are glued with a strong low expansion PU adhesive, for example CONNECT PU 130. For optimal adhesion results, the FORM element is vertically loaded for 45 minutes to avoid moving.	2500/250/120	15	A
	2500/250/200	10	A
	2500/300/200	10	A

* Example of product labeling according to EN 13164.

Delivery: **A** – in stock; **B** – deliverable in 6 weeks

Thermal conductivity λ_D and other key physical characteristics are listed in brochure of FIBRAN^{xps} Technical data and fields of use, and other technical documentation at www.fibran.com.

IMPORTANT

The SEISMIC foundation pillow: solid base for safe and durable construction

In areas with high earthquake risk zones, (earthquake ground acceleration $0,1\text{ g} \leq a_g \leq 0,25\text{ g}$), energy efficient buildings are constructed on the **SEISMIC** foundation pillow. Specific system solutions are adapted to construction plans of individual buildings, energy efficiency demands and location conditions (such as soil type, presence of ground water and dangerous terrestrial radiation).

See brochure:

0151 SEISMIC foundation pillow

Foundations of low- energy buildings on earthquake -prone areas

For harmful terrestrial (geopathogenic) radiation and in areas with higher radon presence we use FIBRANhydro **ANTIRADON** 1,5 sk as the bottom layer.



Before pouring the levelling concrete and laying the first layer of FIBRANxps (400-L, 500-L, 700-L) thermal insulation, special attention is given to installation pipes.



Two-sided self-adhesive waterproofing FIBRANhydro **SEISMIC** T-1,8 sk/sk is laid onto the first layer of the suitably thick and loadbearing FIBRANxps thermal insulation panels.



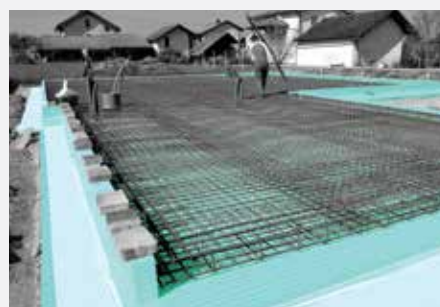
In the presence of ground water, the waterproofing membrane is laid in two layers: one-sided self-adhesive waterproofing FIBRANhydro T-3 sk and two-sided self-adhesive waterproofing FIBRANhydro **SEISMIC** T-1,8 sk/sk.



Step by step, the protective foil is removed from the two-sided self-adhesive waterproofing membrane FIBRANhydro **SEISMIC** T-1,8 sk/sk.



FIBRANxps **SEISMIC** boards are laid carefully and precisely on the adhesive waterproofing surface.



The foundation slab edges are enclosed with FIBRANxps **FORM** - formwork elements, glued with a high quality PU adhesive.

FIBRANhydro



High-quality elastomer bitumen self-adhesive waterproofing membrane type T.

Description	Declared water tightness [kPa]	Thickness [mm]	Quantity [m ² /roll]	Delivery
FIBRANhydro SEISMIC T-1,8 sk/sk two-sided self-adhesive waterproofing	60	1,8	15	A
FIBRANhydro T-3 sk one-sided self-adhesive	200	3,0	10	A
FIBRANhydro ANTI RADON 1,5 sk one-sided self-adhesive waterproofing with a protective layer against radon and terrestrial radiation	200	1,5	20	A

FIBRAN^{xps} 500-L



* XPS-EN13164-T1-CS(10\Y)500-CC(2/1,5/50)180-DS(70,90)-DLT(2)5-TR400-WL(T)0,7-WD(V)1-FTCD1-MU150

EAN code 52053811_____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
09969	50	8	6,00	12	72	500	A
10170	60	7	5,25	12	63	500	A
09952	80	5	3,75	12	45	500	A
10019	100	4	3,00	12	36	500	A
09761	120	3	2,25	14	31,5	500	A
10361	140	3	2,25	12	27	500	A
07842	160	2	1,50	16	24	500	A
–	180	2	1,50	14	21	500	B
–	200	2	1,50	12	18	500	B

• Ship-lap edge, "L" profile • Smooth surface • Board's dimensions **1250 x 600** [mm]

FIBRAN^{xps} 700-L



* XPS-EN13164-T1-CS(10\Y)700-CC(2/1,5/50)235-DS(70,90)-DLT(2)5-TR400-WL(T)0,7-WD(V)1-FTCD1-MU150

EAN code 52053811_____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
08009	60	7	5,25	12	63	700	B
10132	80	5	3,75	12	45	700	B
10149	100	4	3,00	12	36	700	B
10156	120	3	2,25	14	31,5	700	B

• Ship-lap edge, "L" profile • Smooth surface • Board's dimensions **1250 x 600** [mm]

* Example of product labeling according to EN 13164.

Delivery: **A** – in stock; **B** – deliverable in 6 weeks

Thermal conductivity λ_D and other key physical characteristics are listed in brochure of FIBRAN^{xps} Technical data and fields of use, and other technical documentation at www.fibran.com.

IMPORTANT**Thermal insulation for heavy loads and humid environment****RECOMMENDED USE:****FLAT ROOFS:**

- shaded roofs,
- inverted roofs of various surfaces (inverted warm flat roofs, roof terraces, parking on inverted flat roofs, and green roofs).

See brochure:

0111 INVERTED FLAT ROOFS

Instructions for installation of
FIBRANxps thermal insulation boards

FLOORS:

- heavy-loaded floors in warehouses and industrial buildings,
- parking lots,
- cooling units,
- skating rinks.

BELOW GRADE CONSTRUCTIONS:

- thermal insulation under foundation slabs of low-energy and passive buildings.

See brochure:

0150 BELOW GRADE

Instructions for installation of
FIBRANxps thermal insulation boards

ROOFS:

- parking lots on flat roofs,
- helipads.

See brochure:

0111 INVERTED FLAT ROOFS

Instructions for installation of
FIBRANxps thermal insulation boards

FLOORS:

- under heavy loaded floors in warehouses and industrial buildings,
- parking lots,
- cold rooms,
- hangars.

BELOW GRADE CONSTRUCTIONS:

- under foundation slabs of larger and heavier buildings,
- under transport routes (bridges, roads, railway),
- runway parts.

See brochure:

0150 BELOW GRADE;

Instructions for installation of
FIBRANxps thermal insulation boards



Incline solution and thermal protection of loaded platforms of residence buildings with basements with FIBRANxps 500-L and INCLINE boards.



Fitting of thermal insulation FIBRANxps 500-L underneath foundation slab of multi-functional building.



Thermal insulation of flat roofs with various surfaces using FIBRANxps of different compression strength.



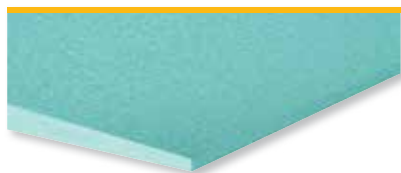
Thermal insulation of a cooling warehouse with FIBRANxps 500-L, 700-L.



Thermal protection of floors in aircraft hangars using FIBRANxps 700-L.

FIBRAN^{xps} INCLINE

Thermal insulation inclination boards



* XPS-EN13164-T3-CS(10\Y)300-DS(70,90)-DLT(2)5-TR400-WL(T)1,5-MU50

FIBRAN^{xps} **INCLINE** boards are strong thermal insulation inclination boards which substitute inclination concrete on roof surfaces. The benefits of the construction are:

- increased thermal efficiency,
- reduced weight,
- thinner layer (minimum starting thickness 1 cm).

Standard slopes: 1,67 % in 2,00 %

Special slopes of greater compression strength* available on order

- Straight edge, "I" profile
- Hot wire cut
- Board's dimensions: **1200 x 600** [mm]

On purchase of **INCLINE** boards, you receive a free of charge laying plan.

* Example of product labeling according to EN 13164.

Delivery: **A** – in stock; **B** – deliverable in 6 weeks

Thermal conductivity λ_D and other key physical characteristics are listed in brochure of FIBRAN^{xps} Technical data and fields of use, and other technical documentation at www.fibran.com.

FIBRAN^{skin} SEAL



Membrane for quicker water drainage and greater thermal efficiency of flat inverted roofs

Product description	Weight [gr/m ²]	Length x width [m]	Quantity in roll [m ²]	Flow rate (class)	Vapor permeability Sd [m]	Delivery
Vapor permeable and water non-permeable membrane	60	50 x 1,5	75	W1	0,01	B

FIBRAN^{skin} SEALplus



Membrane for quicker water drainage and greater thermal efficiency of flat inverted roofs

Product description	Weight [gr/m ²]	Length x width [m]	Quantity in roll [m ²]	Flow rate (class)	Vapor permeability Sd [m]	Delivery
Vapor permeable and water non-permeable membrane	60	100 x 3	300	W1	0,01	B

FIBRAN^{tape} 2SEAL-2-sided

Two-sided self-adhesive tape with lasting efficiency for attaching FIBRAN^{skin} **SEAL** membrane

Product description	Length x width [m]	Delivery
two-sided self-adhesive tape with reinforced fabric	25 x 0,025	A

Delivery: **A** – in stock; **B** – deliverable in 6 weeks

Thermal conductivity λ_D and other key physical characteristics are listed in brochure of FIBRAN^{xps} Technical data and fields of use, and other technical documentation at www.fibran.com.

IMPORTANT**System solutions for a modern inverted flat roof****RECOMMENDED USE:****OPTIMO roof**

To avoid excessive roof loads and increase their thermal insulation performance, the heavy non-insulating inclination concrete is replaced with the thermally insulative **INCLINE** boards, where the load bearing strength is selected according to specific roof use demands.

ROOFS:**New buildings and renovation projects:**

- various finish coats, green roofs, gravel, wooden terraces,
- green **OPTIMO** roofs,
- flat roof parking lots.

See brochure:

0111 INVERTED FLAT ROOFS

Instructions for installation of
FIBRANxps thermal insulation boards



Increasing the roof slope with FIBRANxps **INCLINE** and simultaneous flat roof thermal rehabilitation.



Achieving proper roof slope with FIBRANxps **INCLINE** boards and installation of FIBRANxps boards on a non-ballasted roof.

FIBRANskin SEAL**Vapor permeable and water non-permeable membrane**

- Geotextile replacement,
- If joints are glued together with two-sided adhesive tape **FIBRANTape 2SEAL**, the use of double-layered thermal insulation is allowed,
- It has an additional function of linking FIBRANxps freely laid boards.

It is not designed for use without shading. If the inverted roof is not ballasted, it is advised to install a layer gravel at least 5–6 cm thick.

See brochure:

0111 INVERTED FLAT ROOFS

Instructions for installation of
FIBRANxps thermal insulation boards



Terrace garden – **OPTIMO SKIN SEAL** roof with FIBRANxps **INCLINE** and FIBRANskin **SEAL** (Drainage accelerating foil with additional thermal efficiency functionality).

OPTIMO SKIN SEAL roof

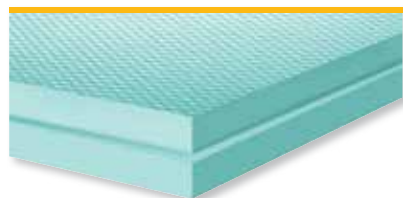
The most lasting and efficient flat roof is composed of the following layers:

- load-bearing construction,
- FIBRANxps **INCLINE** tapered insulation boards,
- waterproofing membrane,
- FIBRANxps **300-L (500, 700)** (depends on roof surface usage),
- FIBRANskin **SEAL** membrane for quick drainage and linking of FIBRANxps boards, which also enables the use of double-layered insulation,
- upgrade, depending on roof usage.

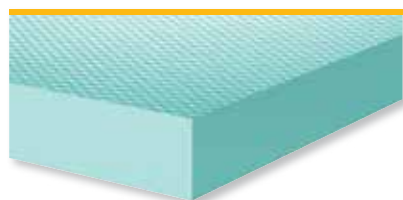
FIBRAN^{xps} ETICS GF

Rough structure for rendered surfaces

ETICS (EXTERNAL THERMAL INSULATION COMPOSITE SYSTEM)



FIBRAN^{xps} ETICS GF-I



* XPS-EN13164-T3-CS(10\Y)300-DS(70,90)-DLT(2)5-TR400-WL(T)1,5-MU50

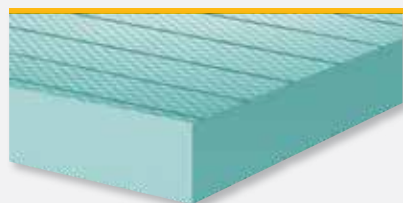
ETICS GF EAN code 52053811____	ETICS GF-I EAN code 52053811____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
—	05367	20	20	15,00	12	180	250	A
05329	05381	30	14	10,50	12	126	250	A
05336	05398	40	10	7,50	12	90	300	A
05343	05404	50	8	6,00	12	72	300	A
09365	05411	60	7	5,25	12	63	300	A
09358	05435	80	5	3,75	12	45	300	A
09488	05442	100	4	3,00	12	36	300	A
09662	21589	120	3	2,25	14	31,5	300	A
09747	10408	140	3	2,25	12	27	300	A
10217	08962	150	2	1,50	16	24	300	A
09693	11559	160	2	1,50	16	24	300	A
09495	11580	180	2	1,50	14	21	300	A
61875	61875	200	2	1,50	12	18	300	A

- ETICS GF- Ship-lap edge, "L" profile
- ETICS GF-I- Straight edge, "I" profile
- rough surface
- Board's dimensions **1250 x 600** [mm]

* XPS-EN13164-T3-CS(10\Y)300-DS(70,90)-DLT(2)5-TR400-WL(T)1,5-MU50

FIBRAN^{xps} ETICS BT-I

Rough surface with grooves



- FIBRAN^{xps} **ETICS BT** boards available on order.

EAN code 52053811____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
04407	50	8	6,00	12	72	300	A*
04414	60	7	5,25	12	63	300	A*
04438	80	5	3,75	12	45	300	A*
04445	100	4	3,00	12	36	300	A*
04452	120	3	2,25	14	31,5	300	A*
72031	140	3	2,25	12	27	300	B
72048	150	2	1,50	16	24	300	B
72055	160	2	1,50	16	24	300	B
72062	180	2	1,50	14	21	300	B

- ETICS GF-I- Straight edge, "I" profile
- rough surface with grooves
- Board's dimensions **1250 x 600** [mm]

* Example of product labeling according to EN 13164.

Delivery: **A** – in stock; **A*** – deliverable in 4 weeks; **B** – deliverable in 6 weeks

Thermal conductivity λ_D and other key physical characteristics are listed in brochure of FIBRAN^{xps} Technical data and fields of use, and other technical documentation at www.fibran.com.

IMPORTANT**Thermal insulation for rendered and overclad façades****RECOMMENDED USE:****WALLS:**

- ETICS rendered façades and plinths,
- façades and plinths with stone facings,
- blind-side thermal insulation formwork,
- internal or sandwich insulation with visible concrete,
- Thermal bridges (balconies, window and door jambs, concrete columns, tie-beams, board edges),
- Insulation of internal walls located next to colder spaces.

See brochure:

0130 Façade;

Instructions for installation of
FIBRANxps thermal insulation boards



Interior thermal insulation using FIBRANxps ETICS, surface protected with coatings of thin-layered render and paintwork.



Roof overhangs covered with FIBRANxps ETICS. Thickness depends on construction span.



Insulation of thermal bridges on tie beams with FIBRANxps ETICS.



Resolving thermal bridges on window and door jambs and thermal insulation of façade plinths with FIBRANxps ETICS.

WALLS AND CEILINGS:

- rendered façades and plinths,
- façades and plinths with stone facings,
- blind-side thermal insulation formwork,
- internal or sandwich wall insulation with visible concrete.

See brochure:

0130 Façade

Instructions for installation of
FIBRANxps thermal insulation boards



Stone cladding of a hotel building facade with load-bearing insulation FIBRANxps ETICS BT-I, to which natural stone is glued with a special procedure.

FIBRAN^{xps} MAESTRO



* XPS-EN13164-T1-CS(10Y)300-CC(2/1,5/50)130-DS(70,90)-DLT(2)5-TR400-WL(T)0,7-WD(V)1-FTCD1-MU150

EAN code 52053811_____	Board thickness [mm]	No. of boards per package	Quantity per package [m ²]	No. of packages per pallet	Quantity per pallet [m ²]	Declared compressive strength [kPa]	Delivery
01734	50	8	13,44	12	161,80	300	B
01925	60	7	11,76	12	141,12	300	B
01772	80	5	8,40	12	100,80	300	B
06562	100	4	6,72	12	80,64	300	B
07637	120	3	5,04	14	70,56	300	B
–	140	3	5,04	14	70,56	300	B
53412	160	2	3,36	16	53,76	300	B

- Tongue and grooved edge, "D" profile
- Smooth surface
- Board's dimensions **2800 x 600** [mm]

FIBRAN^{skin} VENT SILVER



Highly-reflective vapor-permeable membrane for increasing thermal conditions of your building

Product description	Weight [g/m ²]	Length x width [m]	Quantity in roll [m ²]	Flow rate (class)	Vapor permeability Sd [m]	Delivery
Highly-reflective vapor-permeable membrane	83	50 x 1,50	75	W1	0,03	B

FIBRAN^{xps} FABRIC



custom made
* **Delivery: **B**

* XPS-EN13164-T3-CS(10Y)300-DS(70,90)-DLT(2)5-TR400-WL(T)1,5-MU50

FIBRAN^{xps} **FABRIC** products to the order:

- declared compression strength CS(10Y)300* [kPa],
- thermal conductivity from 0,032 to 0,036 [W/mK].

Options:

- thickness from 9 to 200 [mm],
- length from 1000 to 3100 [mm],
- width from 585 to 1200** [mm],
- boards with various slots,
- * Compression strength of boards ranges from 200 to 700 kPa.

- straight, "I" profile
- grinded surface

* Example of product labeling according to EN 13164.

Delivery: **A** – in stock; **B** – deliverable in 6 weeks

Thermal conductivity λ_0 and other key physical characteristics are listed in brochure of FIBRAN^{xps} Technical data and fields of use, and other technical documentation at www.fibran.com.

IMPORTANT**Thermal insulation for various applications****RECOMMENDED USE:****ROOFS:**

- pitched roofs,
- visible ceiling insulations,
- warehouse, sport and agricultural building ceilings,
- swimming pools.

WALLS:

- inverse construction,
- cavity walls.



Visible thermal insulation **FIBRANxps MAESTRO** protects stables and agricultural buildings from overheating in the summer and cooling in the winter.



FIBRANxps MAESTRO as sandwich insulation; visible white concrete outer wall construction phase.

FIBRANvent SILVER**Highly-reflective vapor-permeable membrane:**

- excellent durability of metal layer due to an extra protective coating,
- high corrosion resistance,
- excellent rain protection,
- reduced heat transfer,
- reflects up to 88 % radiated heat which improves thermal resistance compared to classic vapor-permeable membranes.



Energy-efficient system solution for the renovation of roofs over loft conversions in combination with a reflective roofing underlay **FIBRANvent SILVER** and thermal insulation **FIBRANxps MAESTRO**.

IMPORTANT**Thermal insulation for industrial use****Custom-made for:**

- wall, ceiling and floor panels,
- window and door frames and doors,
- transport and living containers,
- caravans,
- decorative trims – stucco,
- follow-up processing and cutting in industry and construction.



FIBRANxps FABRIC as thermal insulation of transport and residential containers.



Wall, ceiling and floor panels made with **FIBRANxps FABRIC** insulation.



STOŽICE Ljubljana, SLO



SQUASHLAND Ljubljana, SLO



Kindergarten Kidričevo, SLO



Kindergarten Loče-Poljčane, SLO



Pastoral and cultural center of the Serbian church municipality of Ljubljana, SLO



Hotel Palace Portorož, SLO



RC SAZU Ljubljana Barje, SLO



SZKŠ Maribor, SLO



ROTONDA Ljubljana, SLO

We build with the
best architects and
contractors!



EDA center Nova Gorica, SLO



Faculty of Medicine Maribor, SLO



SNG Opera and Ballet Ljubljana, SLO

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0150 BELOW GRADE

0151 SEISMIC FOUNDATION PILLOW



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