

fibran[®]

5000

FIBRAN *gyps*
Dry Systems

PRODUCT CATALOGUE

fibran[®] ENERGYSHIELD.

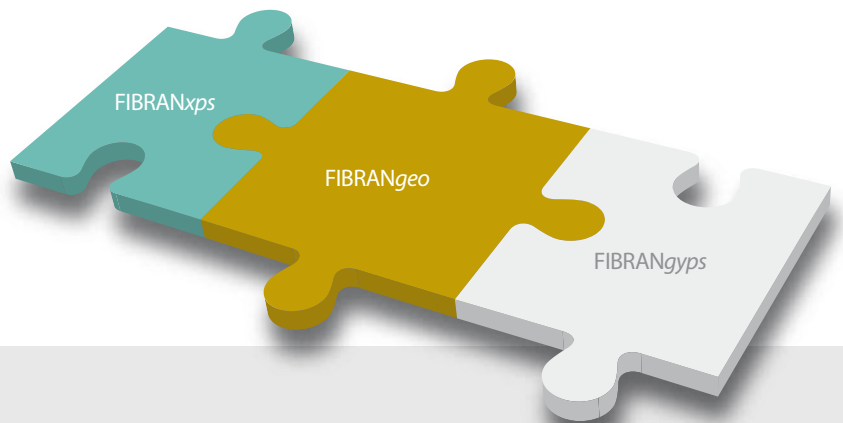
Fibran vision building today while looking to the future.

The FIBRAN Group proposes to the market a complete range of solutions for an efficient and environmentally friendly constructions.

FIBRAN SPA

FIBRAN S.p.A., founded in Genova in 2004, is the Italian branch of the FIBRAN Group. The Company, founded in 1974 in Thessaloniki, Greece, by its current President Dimitrios Anastasiadis, operates in the field of thermal and acoustic insulation and passive fire protection in civil, industrial, and naval markets.

We know how



FIBRAN produces stonewool, xps, eps, gypsum plasterboards, joint fillers, glues, profiles and accessories for dry systems, with factories in Italy and abroad.

The products are distributed under the trademarks: FIBRANgyps for the dry systems, FIBRANprofiles for metal structures, FIBRANgeo for stonewool and FIBRANxps for extruded polystyrene.

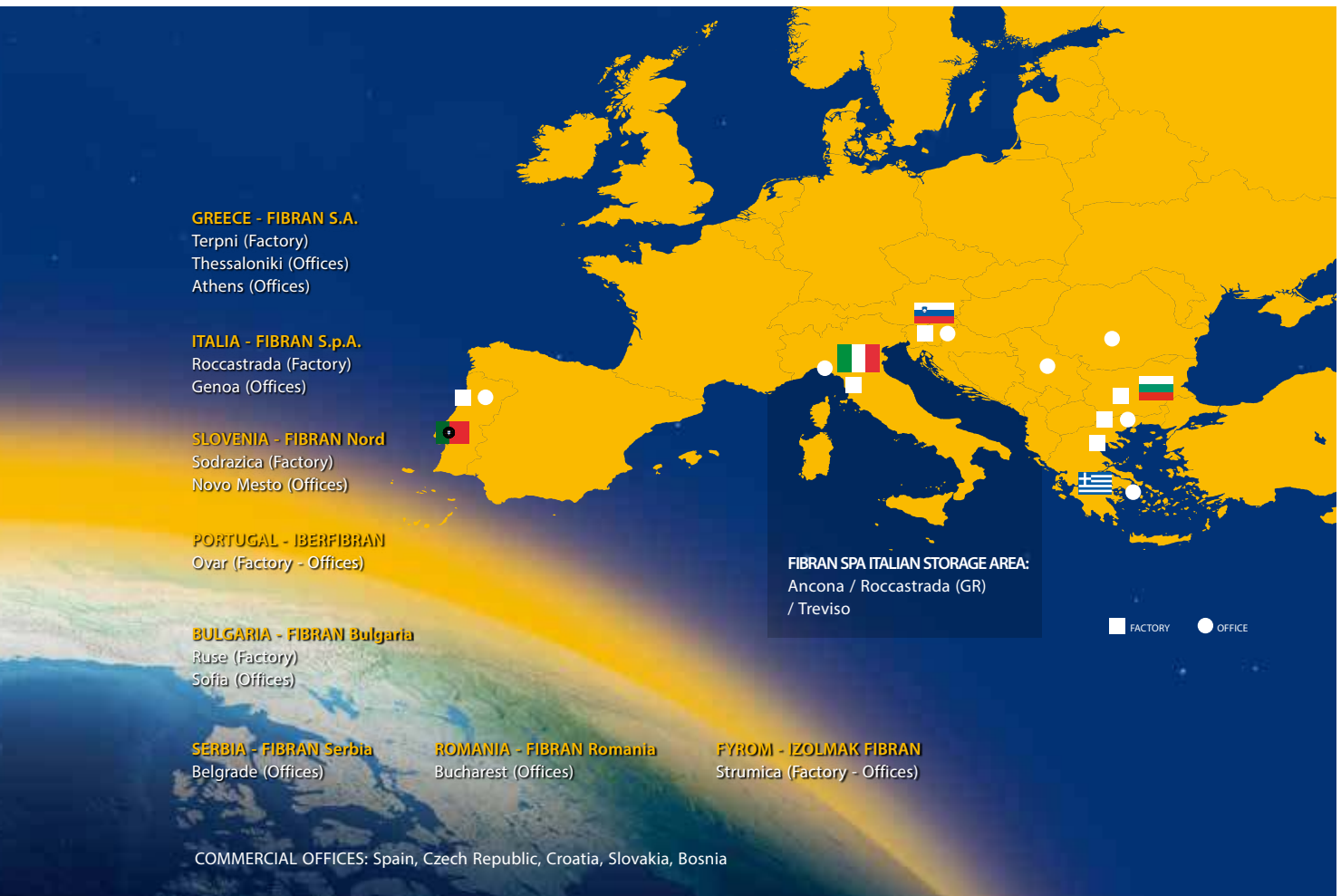
«We Know How» represents FIBRAN's philosophy of proposing to the market innovative and complementary products that become integrated solutions for an efficient and environmentally-friendly construction.

FIBRAN is associated to EURIMA (European Insulation Manufacturers Association), ANIT (Associazione Nazionale per l'Isolamento Termico e Acustico) and ASSOGESSO (Associazione dei Produttori Italiani di Gesso) and FIVRA (Fabbriche Isolanti Vetro Roccia Associate).



member of





Factory and quarry in Roccastrada - Grosseto

FIBRANgyps plasterboards are classified **A+** according to **EN ISO 16000-09 standard** with regard to the emission of formaldehyde, acetaldehyde and other substances.

The new FIBRANgyps **CARE**® technology enriches the range with highly innovative products, developed to improve comfort and well-being. Due to the presence of special additives, **CARE** range products don't emit pollutants (VOCs) and – in addition – absorb them as well, breaking down the smells, ensuring a cleaner and more healthy air.

The entire production process is constantly checked and includes the use of recycled products such as paper and gypsum.

FIBRAN voluntarily submits itself to the regular inspections of **AENOR** - Asociacion Española de Nacionalizacion y Certificacion and of **CSTB-NF** - Centre Scientifique et Technique du Batiment, accredited and independent bodies recognized throughout Europe that certify the products and the quality system applied for their manufacture.



FIBRANgyps

FIBRAN Dry Systems

Drywall systems are the ideal solution for indoor partitions of homes, offices, and all crowded areas such as schools, shopping malls, hospitals, airports, hotels, sports centres.

FIBRAN Dry Systems

Some design features of modern architecture would be impossible to achieve without plasterboard technology and its recognized properties:



Fire protection



Humidity resistance



Thermal insulation
when combined
with insulation materials



Easy to install and to dispose



Impact resistance



Sound insulation



Low weight



Air quality



Multifunctionality



Mechanical strength



Environment friendly



Design

CE Marking

The FIBRANGyps products range meets the following European harmonized standards:

EN 520: Gypsum plasterboards

This standard defines different types of plasterboards. The most important are:

type A – with a face to which suitable gypsum plaster or decoration may be applied

type D – with controlled density (more than 800 kg/m³)

type F – with improved core adhesion at high temperature

type H1 – with reduced water absorption rate <5%

type H2 – with reduced water absorption rate <10%

type I – with enhanced surface hardness, the diameter of the depression produced in the surface by the impact of a steel sphere shall be not greater than 15 mm.

type R – with superior mechanical resistance



EN 13950: Gypsum plasterboards thermal/acoustic insulation composite panels

EN 14190: Gypsum plasterboard products from reprocessing

EN 13963: Jointing materials for gypsum plasterboards

EN 14195: Metal framing components for gypsum plasterboard systems

EN 14353: Metal beads and feature profiles for use with gypsum plasterboards

EN 14566: Mechanical fasteners for gypsum plasterboard systems

EN 15283-1: Gypsum boards with fibrous reinforcement

From 1 July 2013, the new Construction Products Regulation (CPR) has come into force.



ETA 13/0631

FIBRAN partitions and linings system obtained the ETA 13/0631 at the Instituto de Ciencias de la Construcción Eduardo Torroja de Madrid.



Standard Plasterboards

Gypsum plasterboards **FIBRANGyeps A** and **FIBRANGyeps FLEX** are type A, CE marked according to the standard EN 520. One decorative ivory face.

FIBRANGyeps A 13 is marked NF too and provides superior mechanical resistance.

For acoustic performance and fire resistance of the systems, refer to the summary table at page 34.

FIBRANGyeps A 10



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
9,5	1200 x 2000	7,8	≥400	≥160	10	0,25	1,0 kJ/kgK	A2-s1,d0
9,5	1200 x 2500	7,8	≥400	≥160	10	0,25	1,0 kJ/kgK	A2-s1,d0
9,5	1200 x 3000	7,8	≥400	≥160	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANGyeps A 13 NF



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 2000	9,2	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 2500	9,2	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 2600	9,2	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 2700	9,2	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 2800	9,2	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 3000	9,2	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANGyeps A 15



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
15	1200 x 2000	12,9	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 2500	12,9	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 2600	12,9	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 2700	12,9	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 2800	12,9	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 3000	12,9	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANGyeps A 18



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
18	1200 x 2600	15,5	≥774	≥303	10	0,25	1,0 kJ/kgK	A2-s1,d0

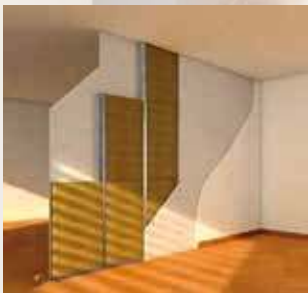
FIBRANGyeps FLEX



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
6	1200 x 3000	5,45	≥258	≥100	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANGyeps A plasterboards are used as components of internal partitions, linings, design elements and ceilings.

Drywall systems with suitable **insulating materials in the cavity** achieve the required acoustic and thermal performances.



Drywall internal partitions



Realization of curved partition and ceiling with recessed spotlights.

CURVED PARTITIONS:

It is recommended to use FIBRANGyeps **FLEX** or FIBRANGyeps **A10** as components of curved partitions and ceilings.



Plasterboards with reduced water absorption

FIBRANgyps H gypsum plasterboards with additives to reduce the water absorption rate.

One decorative green face.

Standard EN 520 classifies three types of water-resistant plasterboards:

Type H1

- Total water absorption <5% in weight
- Surface water absorption < 180 g/m²

Type H2

- Total water absorption <10% in weight
- Surface water absorption < 220 g/m²

Type H3

- Total water absorption <25% in weight
- Surface water absorption < 300 g/m²

FIBRANgyps H1 13 is also NF marked and provides superior mechanical resistance.

FIBRANgyps H2 13



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 2000	10	≥550	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 2500	10	≥550	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 3000	10	≥550	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps H1 13 NF



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 2000	10	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 2500	10	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 3000	10	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps H1 15



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
15	1200 x 2000	13,1	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 2500	13,1	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 3000	13,1	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANGyps H plasterboards are used in the construction of bathrooms, kitchens, and high-humidity environments in general.

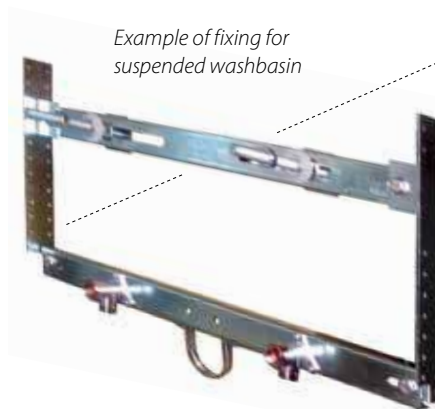
Kitchen partition with ceramic tiles and suspended cabinets



For the suspension of bathroom fixtures, kitchen cabinets, radiators, boilers and other heavy furniture items, specific supports are available.

Shower cabinets or elements subject to direct and frequent water jets must be **pre-treated with waterproofing products** before the installation of the ceramic tiles.

Example of fixing for suspended washbasin



Suspended washbasin and drawer

Fire resistant plasterboards

FIBRANgyps F

Gypsum plasterboard type F with additional glass fibers and vermiculite to improve core adhesion at high temperatures for fire resistance.

Class fire reaction A2-s1,d0. One decorative pink face.

FIBRANgyps F13 is also marked NF and provides superior mechanical resistance..

FIBRANgyps A1

Incombustible gypsum plasterboard type A (standard) class fire reaction A1 according to UNI EN 13501-1, thanks to the low calorific value of the paper liners.

One decorative white face.

FIBRANgyps A1 F

Gypsum plasterboard type F with improved core adhesion at high temperatures and incombustible class fire reaction A1, thanks to the low calorific value of the paper liners.

One decorative white face.

FIBRANgyps F 13 NF



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 2000	9,8	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 2500	9,8	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 3000	9,8	≥600	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps F 15



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
15	1200 x 2000	13,1	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 2500	13,1	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0
15	1200 x 3000	13,1	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps A1 13



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 3000	9,7	≥550	≥210	10	0,25	1,0 kJ/kgK	A1

FIBRANgyps A1 15



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
15	1200 x 3000	12,9	≥650	≥250	10	0,25	1,0 kJ/kgK	A1

FIBRANgyps A1F 13



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 2000	10,5	≥550	≥210	10	0,25	1,0 kJ/kgK	A1
12,5	1200 x 3000	10,5	≥550	≥210	10	0,25	1,0 kJ/kgK	A1

FIBRANgyps A1F 15



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
15	1200 x 2000	13,1	≥650	≥250	10	0,25	1,0 kJ/kgK	A1
15	1200 x 3000	13,3	≥650	≥250	10	0,25	1,0 kJ/kgK	A1

In some cases fire prevention involves the use of incombustible class A1 materials.

In these cases **FIBRANgyps A1** or **FIBRANgyps A1F** plasterboards can be used if incombustible fire reaction is required too.

Partitions and ceilings of hotel's corridor made with FIBRANgyps A1 and FIBRANgyps A1F plasterboards.



Detail of fire resistant lining wall with FIBRANgyps F plasterboards and FIBRANprofiles metallic structure.



FIBRANgyps partitions, linings and ceilings are tested REI/EI according to European Standard EN 13501-2.

The list of classification report with fire resistance tests' results is available at pages 33 and 34 of the catalogue and at www.fibran.it

Special plasterboards

FIBRANgyps SMART

Special gypsum plasterboard of reduced dimensions, 900 mm by 1800 mm, to facilitate transport with medium size car and loading in the elevator. It is the best choice for renovation.

FIBRANgyps ID

Gypsum plasterboard with higher surface hardness (I) and controlled density (D) - greater than 800 kg/m³. Type DI, CE marked according to the standard EN 520.

The diameter of depression produced in the surface by the impact of a steel sphere is < 15 mm.

FIBRANgyps V

Gypsum plasterboard coated on the rear face with an aluminum foil as vapor barrier.

CE marked according to the standard UNI EN 14190.

FIBRANgyps P

Gypsum plasterboard coated on the rear face with lead foil of variable thickness for radiological and acoustic protection. The integrity of coating is ensured by stripes of the same material and thickness.

FIBRANgyps SMART



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	900 x 1800	9,2	≥550	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps ID 13



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 2500	12,3	≥550	≥210	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps ID 15



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
15	1200 x 3000	15	≥650	≥250	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps V 13



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 3000	9,2	≥550	≥210	850000*	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps P



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Piombo				
			Melting temperature [°C]	Melting heat [kJ/kg]	Weight [g/cm ³]	Volume increase during melting [%]	Thermal expansion coefficient [mm/m°C]
12,5+5/10	600 x 2500	16	325,6	25,96	11,34	3,5	0,03
12,5+10/10	600 x 2500	22	325,6	25,96	11,34	3,5	0,03
12,5+20/10	600 x 2500	33,5	325,6	25,96	11,34	3,5	0,03
12,5+30/10	600 x 2500	44,9	325,6	25,96	11,34	3,5	0,03

* Value referred to aluminum foil

Plasterboards type DI with higher resistance to impacts and scratches are suitable for gyms, hospitals, schools, malls and crowded areas.

Drywall systems built with **FIBRANGyps ID** plasterboards achieve good results in sound insulation and fire resistance.



Plasterboards **FIBRANGyps V** coupled with aluminum are used where a vapor barrier is required.



FIBRANgyps SUPER

The 360° all-around plasterboard!

Gypsum plasterboard for special application with controlled density, greater than 1016 kg/m³. The remarkable acoustic performance combined with the higher strength, higher surface hardness, higher reaction to fire and reduced water absorption, make FIBRANgyps SUPER the ideal choice for new buildings such as renovation.

CE marked type **D-F-H1-I-R** according to the standard UNI EN 520. To be marked I, the diameter of depression produced in the surface by the impact of a steel sphere shall not be greater than 15 mm.

FIBRANgyps SUPER 13 is also **NF** marked.



FIBRANgyps SUPER 13 NF



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
12,5	1200 x 2000	12,7	≥725	300	10	0,25	1,0 kJ/kgK	A2-s1,d0
12,5	1200 x 3000	12,7	≥725	300	10	0,25	1,0 kJ/kgK	A2-s1,d0

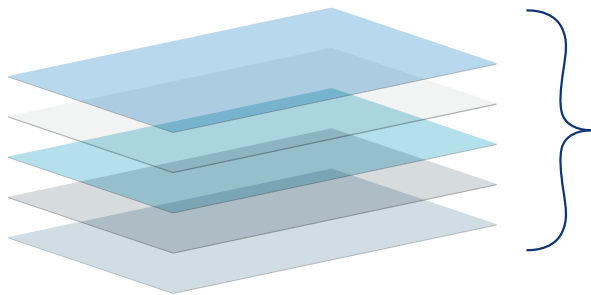
FIBRANgyps SUPER 15



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Long Flex. resistance [N]	Trasv. Flex. resistance [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat c_p	Reaction to fire
15	1200 x 3000	15,5	≥870	360	10	0,25	1,0 kJ/kgK	A2-s1,d0

FIBRANgyps SUPER

FIBRANgyps SUPER: 5 plasterboards in 1



FIBRANgyps SUPER



FIRE PROTECTION

Partitions, linings and ceilings realized with FIBRANgyps SUPER plasterboards achieve excellent fire protection performance up to EI 120, according to the thickness and layers of plasterboards used.

EI 120
Technical dossier
H max 17,9 m



SOUND INSULATION

Thanks to the excellent acoustic insulation performance, partitions made with FIBRANgyps SUPER plasterboards allow to live in extremely comfortable environments.

Partitions made with double layer of FIBRANgyps SUPER plasterboards provide 5 dB extra sound insulation compared to those made of standard plasterboards, reducing sound perception intensity by 70%.

+ 5dB
Compared to standard plasterboards

FIBRANgyps SUPER

Home decorating with freedom!



Shelves and cabinets, up to a maximum load of 70 kg/m, directly fixed to the plasterboards, possibly with a slotted bar, with no concern on fixing them only to the steel studs of the support structure. For higher loads than the ones specified above, specific supports must be used.





+ 30%
compared
to standard
plasterboards



FLEXURAL BREAKING LOAD

	FIBRANgyps A13	FIBRANgyps SUPER 13	FIBRANgyps A15	FIBRANgyps SUPER 15
Longitudinal flexion EN 520	> 550 N	> 725 N	> 650 N	> 870 N
Transversal flexion EN 520	> 210 N	> 300 N	> 250 N	> 360 N

RESISTANCE TO LOADS*

FIXINGS	1 layer FIBRANgyps SUPER 13		2 layers FIBRANgyps SUPER 13		2 layers FIBRANgyps SUPER 13	
	Shear strength (kg)		Shear strength (kg)		Traction (kg)	
	Laboratory values	Recommended values	Laboratory values	Recommended values	Laboratory values	Recommended values
Nail	36	14	-	-	-	-
Metallic dowel "Gold" 	-	-	80	32	60	24
Metallic dowel "Molly" 	120	48	180	72	150	60

ECCENTRIC LOADS RESISTANCE *

		<p>Loading test on shelf</p> <p>Shelves loaded up to 48 kg can be fixed directly to double layer of FIBRANgyps SUPER, using metallic dowels Molly at maximum distance of 50 cm. The result of the laboratory test is 120 kg.</p>	48kg
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* Recommended values obtained by applying to the test values a safety coefficient of 2,5 (as required by UNI 13964).

Test report n°137 by Tecnolab di Napoli and test reports n°327335/n°327336 by Istituto Giordano of Bellaria.



FIBRANgyps CARE®

Innovative product range featuring plasterboards enhanced by FIBRAN CARE® technology, which can neutralize most of the **VOCs** present in the environment.

Available thickness 12,5 mm

Particularly suitable for the construction of partitions, linings and ceilings in **residential, hospitals and schools.**

FIBRANgyps CARE®

FIBRANgyps CARE®

Special gypsum plasterboard produced with the innovative FIBRAN CARE® Technology.

One decorative ivory face.

Thickness 12,5 mm.

Type A, CE marked.

See partition "SW 125/75 mw"

Rw 54 dB

EI 90 *

* for partitions up to 4 meters high

FIBRANgyps HydroCARE®

Special gypsum plasterboard with additives to reduce the water absorption rate, produced with the innovative FIBRAN CARE® Technology.

One decorative green face.

Thickness 12,5 mm.

Type H1, CE marked.

See partition "HW 125/75 mw"

Rw 54 dB

EI 90 *

FIBRANgyps SuperCARE®

Special gypsum plasterboard produced with the innovative FIBRAN CARE® Technology, with higher strength, higher surface hardness, controlled density, reduced water absorption, higher fire resistance.

One decorative light blue face.

Thickness 12,5 mm.

Type D,F,H1,I,R, CE marked.

See partition "SUPER 125/75 mw"

Rw 59 dB

EI 120

Mechanical strength test in accordance to Etag 003 widely passed.





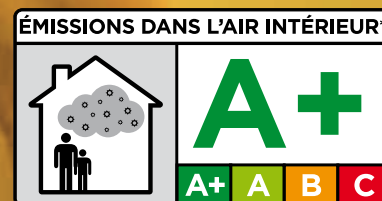
European air quality legislation EU regulation UE 305/2011

The quality of indoor air is an important performance requirement

The construction works must be designed and built in such a way that they will, throughout their life cycle, not to be a threat to the hygiene or health and safety of workers, occupants or neighbours, nor have an exceedingly high impact, over their entire life cycle, on the environmental quality or on the climate during their construction, use and demolition, in particular as a result of any of the following:

- a. the giving-off of toxic gas;**
- b. the emissions of dangerous substances, volatile organic compounds;**
- c. the emission of dangerous radiation;**
- d. the release of dangerous substances into ground water, marine waters, surface waters or soil;**
- e. the release of dangerous substances into drinking water or substances which have an otherwise negative impact on drinking water;**
- f. faulty discharge of waste water, emission of flue gases or faulty disposal of solid or liquid waste;**
- g. dampness in parts of the construction works or on surfaces within the construction works.**

The neutralizing properties of **FIBRANgyps CARE®** technology have been tested by Eurofins, independent laboratory operating in the field of environmental bioanalysis.



FIBRANgyps plasterboards are classified A+, the best one according to French Decree n.321/2011 with regard to the emission of formaldehyde, acetaldehyde and other substances.

Insulation Composite panels

FIBRANGyeps AGeo

Composite panel consisting of FIBRANGyeps **A13 NF** plasterboard and FIBRANGgeo stonewool panel of variable thickness. CE marked according to UNI EN 13950. Ideal for increasing the thermal and acoustic insulation of internal partitions and linings. Apply using the special glue FIBRANGyeps **GLUE**.

FIBRANGyeps AXps

Composite panel consisting of FIBRANGyeps **A13 NF** plasterboard and FIBRANGxps extruded polystyrene panel of variable thickness. CE marked according to UNI EN 13950. Ideal for increasing the thermal insulation of internal partitions and linings. Apply using the special glue FIBRANGyeps **GLUE**.

FIBRANGyeps Aeps e FIBRANGyeps AEeps G

Composite panel consisting of FIBRANGyeps **A10** or **A13 NF** plasterboard and white (Eps) or grey (Eps G) expanded polystyrene panel of variable thickness. CE marked according to UNI EN 13950. Ideal for increasing the thermal insulation of internal partitions and linings. Apply using the special glue FIBRANGyeps **GLUE**.

FIBRANGyeps GLUE



Description	Setting time	Workability time	Rating water/powder	Performance kg/m ²	Reaction to fire
Gypsum based adhesive for fixing plasterboards and composite panels.	480 min.	90 min.	60/40	0,39	A1

FIBRANGyeps AGeo



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Thermal Resistance [m ² K/W]	Flex. Long. [N]	Transv. Flex. [N]	geo			Reaction to fire	
						Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat Capacity c _p		
Plasterboard geo										
12,5	30	1200 x 3000	12,2	0,90	≥600	≥210	1	0,034	1,03	A2-s1,d0
12,5	40	1200 x 3000	13,2	1,20	≥600	≥210	1	0,034	1,03	A2-s1,d0
12,5	50	1200 x 3000	14,2	1,50	≥600	≥210	1	0,034	1,03	A2-s1,d0

FIBRANGyeps AXps



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Thermal Resistance [m ² K/W]	Flex. Long. [N]	Transv. Flex. [N]	xps			Reaction to fire	
						Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat Capacity c _p		
Plasterboard xps										
12,5	20	1200 x 3000	9,8	0,65	≥600	≥210	50	0,032	1,45	B2-s1,d0
12,5	30	1200 x 3000	10,1	0,95	≥600	≥210	50	0,032	1,45	B2-s1,d0
12,5	40	1200 x 3000	10,4	1,30	≥600	≥210	50	0,032	1,45	B2-s1,d0
12,5	50	1200 x 3000	10,7	1,55	≥600	≥210	50	0,033	1,45	B2-s1,d0
12,5	60	1200 x 3000	11	1,85	≥600	≥210	50	0,033	1,45	B2-s1,d0
12,5	80	1200 x 3000	11,6	2,40	≥600	≥210	50	0,034	1,45	B2-s1,d0

FIBRANGyeps AEeps



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Thermal Resistance [m ² K/W]	Flex. Long. [N]	Transv. Flex. [N]	eps			Reaction to fire	
						Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat Capacity c _p		
Plasterboard eps										
9,5	20	1200 x 3000	8,1	0,55	≥400	≥160	50	0,036	1,45	B2-s1,d0
9,5	30	1200 x 3000	8,3	0,85	≥400	≥160	50	0,036	1,45	B2-s1,d0
9,5	40	1200 x 3000	8,4	1,10	≥400	≥160	50	0,036	1,45	B2-s1,d0

FIBRANGyeps AEeps G



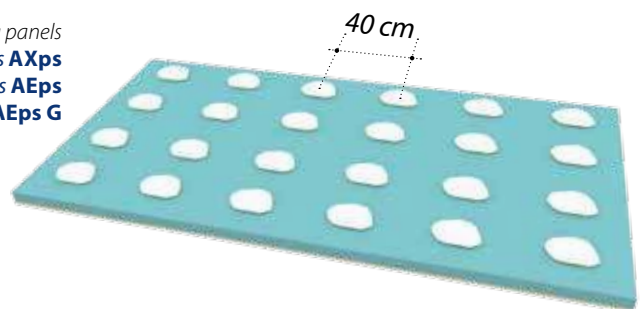
Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Thermal Resistance [m ² K/W]	Flex. Long. [N]	Transv. Flex. [N]	Grey eps			Reaction to fire	
						Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat Capacity c _p		
Plasterboard eps										
12,5	20	1200 x 3000	9,5	0,65	≥600	≥210	50	0,031	1,45	B2-s1,d0
12,5	30	1200 x 3000	9,7	1,00	≥600	≥210	50	0,031	1,45	B2-s1,d0
12,5	40	1200 x 3000	9,8	1,30	≥600	≥210	50	0,031	1,45	B2-s1,d0

The increase of the indoor comfort can be obtained by coupling the pre-composite panels **FIBRANGyeps AGeo** on the existing partitions - if an increase in the acoustic and thermal insulation performance is desired - or **FIBRANGyeps AXps, AEps, AEps G**, if just the hydrothermal benefit is required.



Interior acoustic insulation made with **FIBRANGyeps AGeo**

Coupling panels
FIBRANGyeps AXps
FIBRANGyeps AEps
FIBRANGyeps AEps G

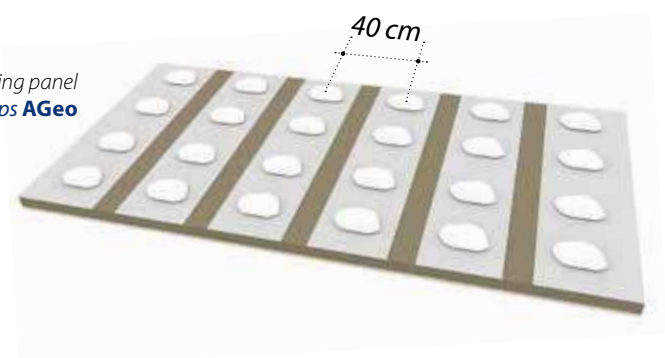


Couple the panels is pretty simple, as outlined in the drawings.

Coupling **FIBRANGyeps AXps, AEps, AEps G** panel with **FIBRANGyeps GLUE** plots spaced about 40 cm.

Coupling **FIBRANGyeps AGeo** panel with **FIBRANGyeps GLUE** stripes and plots spaced about 40 cm.

Coupling panel
FIBRANGyeps AGeo



Exterior drywall system FIBRANgyps NEXT

Build the building envelope in a simple and natural way

FIBRANgyps NEXT BOARD is an innovative plasterboard with high resistance to moisture and water, created and designed by **FIBRAN** specifically for outdoor and high humidity indoor environments.

FIBRANgyps NEXT COAT

Finishing cement powder to be mixed with water suitable for:

- smooth finishes of external walls with glass fiber mesh
- gluing mineral wool panels for rendered façade and finishing with glass fiber mesh. Grey color.

FIBRANgyps NEXT BOARD



Thickness [mm]	Dimensions [mm]	Weight [kg/m ²]	Edge	Flex. Long. [N]	Transv. Flex. [N]	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Specific Heat Capacity c_p	Reaction to fire
12,5	1200 x 2000	10	BA	≥ 725	≥ 300	10	0,225	1,0 kJ/kgK	A1

FIBRANgyps NEXT COAT



Finishing	Particle size	Weight [kg/m ³]	Mix water strength	Compression resistance	Type of fracture	Water vapor resistance factor μ	Thermal conductivity λ [W/mK]	Reaction to fire
2- 3 mm each coat	0,6 mm	1350	23%	Category CS IV	A high flexibility	15	0,42	A1

FIBRANgyps NEXT MESH



Reinforced mesh
Fiberglass mesh with high chemical inertia and anti-alkaline sizing, certified ETAG 004.

FIBRANgyps TAPE



Jointing tape
Adhesive tape with high chemical inertia, anti-alkaline sizing, used for the tapered edges finishing.

FIBRANgyps NEXT SCREWS



Screws for external use
Self-drilling screws, length 25 and 39 mm, with RUSPERT coating that guarantees 500h to salt spray test.

FIBRANgyps NEXT CORNER



Corner with mesh
PVC corner with alkali-resistant mesh, white color.

FIBRANgyps NEXT WINDOW PROFILE



Window profile with mesh
PVC corner with drip and alkali-resistant mesh, white color.

FIBRANgyps NEXT BASE PROFILE



Base profile
Natural aluminum base profile for 12,5mm thickness plasterboards.

FIBRANGyps NEXT is a multiple use system suitable for:

- external walls
- outdoor false ceiling
- high humidity rooms
- support for rendered facade
- architectural elements in external

FIBRANGyps NEXT BOARD can be installed on steel studs, dimensioned according to the technical local standards of construction.



Resistance to atmospheric agents

Plasterboards have been tested in all extreme conditions and they can stand till 6 months outside just with the joints treatment (even corners and critical points), before the finishing of the surface.

Mold resistance

Tested according to UNI 8986.

Incombustible

A1 fire reaction class.

Easy cut and shape

Easy to realize any shape and design elements.

Lightweight

Weighting less than other external dry system it becomes a big advantage in terms of design of the structure and site handling.

Humidity resistance

The very low water absorption rate makes Next perfect for applications either outside either in high humidity environments.

Dimensional stability

Thanks to the properties of natural gypsum the board is stable even under variable hydrothermal conditions.

Neutral for profiles

Thanks to the neutral composition of natural gypsum FIBRANGyps NEXT board can be applied on standard steel.

Vapor permeability

The low μ value makes Next breathable so that normally breathable membranes are not needed.

Thermal and acoustic insulation

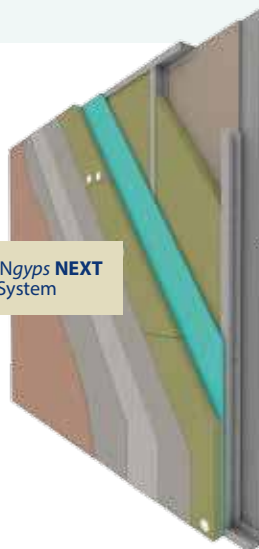
Versatility of dry system allows to design high performance stratigraphy.



FIBRANGyps NEXT BOARD,

CE marked GM-H1-R according to the standard EN 15283-1, fire classification A1 (non-combustible) meets the American requirements of ASTM C1177 "Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing" too.

FIBRANGyps NEXT System



External thermal insulation composite systems (ETICS) with FIBRANGeo BP-ETICS panel glued and fastened to FIBRANGyps NEXT BOARD and to steel studs.

Joint fillers and Glue

Aesthetics, mechanical continuity and quality of dry systems depend mainly on the treatment of joints and surfaces. These operations are also highly emphasized by the UNI 11424:2011 legislation on the correct installation of dry systems.

FIBRAN offers a range of traditional joint fillers, characterized by different times of workability, drying and elasticity.

Powder joint fillers

FIBRANgyps JF30



Description	Setting time	Workability time	Rating water/ powder	Consumption kg/m ²	Reaction to fire
Joint filler in powder to be mixed with water for manual application, short setting time.	60 min.	30 min.	60/40	0,39	A1

FIBRANgyps JF60



Description	Setting time	Workability time	Rating water/ powder	Consumption kg/m ²	Reaction to fire
Joint filler in powder to be mixed with water for manual application, short setting time.	180 min.	60 min.	60/40	0,39	A1

FIBRANgyps JF120



Description	Setting time	Workability time	Rating water/ powder	Consumption kg/m ²	Reaction to fire
Joint filler in powder to be mixed with water for manual application, short setting time.	300 min.	120 min.	60/40	0,39	A1

FIBRANgyps JF24H



Description	Setting time	Workability time	Rating water/ powder	Consumption kg/m ²	Reaction to fire
Joint filler in powder to be mixed with water for manual application, short setting time.	32h	24h	30/70	0,39	A1

Ready mixed joint filler

FIBRANgyps JF READYMIX



Description	Setting time	Workability time	Rating water/ powder	Consumption kg/m ²	Reaction to fire
High-performance and multi-task compound used for embedding joint tape, finishing drywall, and hand-applying simple texturing. Ready to use.	12h	-	-	0,5	A2-s1,d0

Glue

FIBRANgyps GLUE



Description	Setting time	Workability time	Rating water/ powder	Consumption kg/m ²	Reaction to fire
Gypsum based adhesive for fixing plasterboards and composite panels.	480 min.	90 min.	60/40	0,39	A1

The range of **FIBRAN** joint fillers and glue includes products specifically designed for:

- the treatment of joints between plasterboards
- the treatment of joints between plasterboards and existing structures
- finishing of surfaces
- coupling of panels **FIBRANgyps AGeo, AXps, AEps, AEps G**



FIBRANgyps JF joint fillers meet the European standard EN 13963 and allow the realization of finishing corresponding to surface quality levels described in the standard UNI 11424.

- Q1** Surfaces that do not have any decorative finish requirements, realized by the filling of the joints between the gypsum wallboards and the covering of the visible parts of the fixings (screws). Excess jointing compound should be removed. Surface damage such as scratches, scoring and ridges ARE PERMITTED.
- Q2** Surfaces that provide finishing in order to achieve a continuous transition to the board surface, with smoothing over Q1 quality level and including sanding the jointed areas if necessary. Application marks or ridges CANNOT BE TOTALLY AVOIDED.
- Q3** Surfaces that provide jointing and finishing according to Q2 plus wider finishing of the joint and a tight coat of joint compound to the entire plasterboard surface, filling the pores.
- Q4** High-end drywall surfaces realized by jointing and finishing to Q2 plus a complete surface covering of skim coat with a suitable material (minimum thickness > 1 mm).

	JF30	JF60	JF120	JF Ready Mix	GLUE
Jointing with paper	•	•	•	•	
Jointing with tape	•	•	•	•	
Finishing level Q1, Q2	•	•	•	•	
Finishing level Q3, Q4	•	•	•	•	
Corners treatment	•	•			
Repairing boards	•	•			
Lining systems					•
Coupling of composite panels					•

FIBRANprofiles

Metal framing components for gypsum board systems



The range of **FIBRANprofiles** products includes all profiles and accessories needed for the realization of drywall systems such as:

- internal partitions
- linings
- ceilings
- great high partitions
- architectural elements



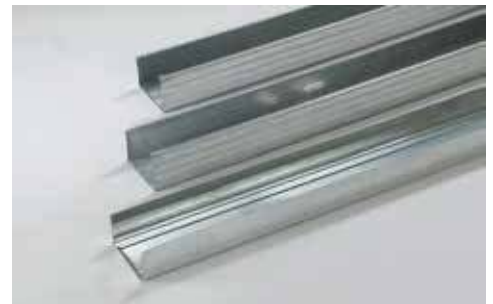
FIBRANprofiles metal structures respect the standards provided by EN14195. The combination of the various elements allows to meet all technical and design requirements.

FIBRANprofiles are made of steel DX51D + Z – M/N-A-C type , characterized by a tensile strength $\geq 300 \text{ N/mm}^2$ as required by European standard EN 10346, galvanized with hot-dip process.

Coil thickness is controlled according to EN 10143.

All profiles surfaces are protected by chemical passivation and oiling in profiling.

Used as support in wall framing and ceilings, these products are available in a range of widths, lengths and gauge (0,6- 0,7-0,8-1 mm) depending on requirements for strength, height, impact resistance and sound insulation.





FIBRANprofiles range consists of perimeter channels and studs , perforated corner beads, hangers, screws, tapes and all accessories necessary for drywall systems.



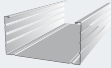
Galvanized steel coils cut to size for **FIBRANprofiles** production



FIBRANprofiles - CHANNELS FOR PARTITIONS according to DIN

NAME	DESCRIPTION	CODE	dimensions mm	pieces/plt	m/plt	kg/ plt	LOG
GUIDA 50		Horizontal "U" metal channel (40x50x40 mm)	PSFPAGU50ND30006	40/50/40 - 3000	168	504	301 A
			PSFPAGU50ND40006	40/50/40 - 4000	168	672	402 A
GUIDA 75		Horizontal "U" metal channel (40x75x40 mm)	PSFPAGU75ND30006	40/75/40 - 3000	168	504	361 A
			PSFPAGU75ND40006	40/75/40 - 4000	168	672	481 A
GUIDA 100		Horizontal "U" metal channel (40x100x40 mm)	PSFPAGU100ND30006	40/100/40 - 3000	168	504	420 A
			PSFPAGU100ND40006	40/100/40 - 4000	168	672	560 C

FIBRANprofiles - STUDS FOR PARTITIONS and CEILING according to DIN

MONTANTE 50		Vertical "C" stud (47x49x50 mm)	PSFPAMC50ND30006	47/49/50 - 3000	160	480	357 A
			PSFPAMC50ND35006	47/49/50 - 3500	160	560	417 B
			PSFPAMC50ND40006	47/49/50 - 4000	160	640	476 A
MONTANTE 75		Vertical "C" stud (47x74x50 mm)	PSFPAMC75ND30006	47/74/50 - 3000	160	480	414 A
			PSFPAMC75ND35006	47/74/50 - 3500	160	560	483 B
			PSFPAMC75ND40006	47/74/50 - 4000	160	640	552 A
MONTANTE 100		Vertical "C" stud (47x99x50 mm)	PSFPAMC100ND30006	47/99/50 - 3000	160	480	470 A
			PSFPAMC100ND40006	47/99/50 - 4000	160	640	627 B

The sizing and the design of internal or external partitions are subordinate to building data, according to the local technical standard for construction.

The general calculation data for the partitions sizing will be:

- maximum height of the partition
- the area of the Municipality
- height a.m.s.l.
- maximum height of the building
- crowd pushing according to building categories
- wind
- seismic action

The maximum distance between the studs should not exceed 600 mm.



In addition to profiles of standard thickness 0,6mm, FIBRAN S.p.A. also produces profiles of thickness 0,8 and 1,0 mm able to satisfy all static and seismic needs. Aluzinc profiles are also available on request.

FIBRAN*profiles* - PROFILES FOR LININGS AND CEILINGS

NAME	DESCRIPTION	CODE	dimensions mm	pieces/plt	m/plt	kg/ plt	LOG
MONTANTE 4927BA	Stud with rounded edge	PSPCOPC4927BA30006	27/49/27- 3000	160	480	274	A
		PSPCOPC4927BA40006	27/49/27- 4000	160	640	365	A
MONTANTE 4927BS	Stud with pressed edge	PSPCOPC4927BS30006	27/49/27- 3000	160	480	271	A
		PSPCOPC4927BS40006	27/49/27- 4000	160	640	362	A
GUIDA 2830	Perimeter "U" channel for 4927 and 6027 studs	PSPCOGU2830GS30006	30/28/30 -3000	180	540	224	A
		PSPCOGU2830GS40006	3/28/30 - 4000	180	720	298	A
PROFILO ANGOLARE 30/30	Perforated corner bead with 90° angle	PSPFDSI30301800305	30/30 - 3000	1000	3000	480	A

The sizing of ceilings is subordinate to project data such as:

- Room height
- Type of slab
- Distance between fasteners
- Required performance – hygro-thermal insulation, acoustic insulation, fire protection, mechanical resistance, break-proof
- Wind
- Seismic action



FIBRANinsulation

FIBRANgyps range is completed with glasswool and stonewool insulation products, required for acoustic insulation, thermal insulation and fire resistance of dry systems. Only some of products are present in this catalogue.

For a complete consultation refer to the specific catalogue FIBRANgeo or to the website www.fibran.it in the insulation section.



The main stonewool boards used in combination with plasterboards are FIBRANgeo B-040, FIBRANgeo B-050, FIBRANgeo B-570, all biosoluble, incombustible A1 class and water repellent.

FIBRANgeo B-040



DESCRIPTION	CODE	Th. mm	Boards/ package	m ² / package	PALLET n. packages	m ²	Order min. plts	LOG.
dens. 40 kg/m ³ 1200 x 600 mm λ=0,034 W/mK Euroclass A1	B0N04004006001200P*	40	12	8,64	10	86,40	1	A
	B0N04005006001200P	50	10	7,20	10	72,00	1	A
	B0N04006006001200P	60	8	5,76	10	57,60	1	A
	B0N04008006001200P	80	6	4,32	10	43,20	22	B
	B0N04010006001200P	100	5	3,60	10	36,00	22	B

FIBRANgeo B-050



dens. 50 kg/m ³ 1200 x 600 mm λ=0,034 W/mK Euroclass A1	B0N05003006001200P	30	16	11,52	10	115,20	22	B
	B0N05004006001200P	40	12	8,64	10	86,40	22	B
	B0N05005006001200P*	50	10	7,20	10	72,00	1	A
	B0N05006006001200P	60	8	5,76	10	57,60	22	B
	B0N05008006001200P	80	6	4,32	10	43,20	22	B
	B0N05010006001200P	100	5	3,60	10	36,00	22	B

FIBRANgeo B-570



dens. 75 kg/m ³ 1200 x 600 mm λ=0,033 W/mK Euroclass A1	B0N07503006001200P	30	13	9,36	12	112,32	4	B
	B0N07504006001200P*	40	10	7,20	12	86,40	1	A
	B0N07505006001200P*	50	8	5,76	12	69,12	1	A
	B0N07506006001200P	60	7	5,04	12	60,48	4	B
	B0N07508006001200P	80	5	3,60	12	43,20	1	A
	B0N07510006001200P	100	4	2,88	12	34,56	15	B

TWR 1600 is a rolled biosoluble glass wool board, coated on one side by non-woven fiberglass fleece, excellent for thermal and acoustic insulation of drywall partitions and linings, incombustible class A1, water repellent, composed by a high percentage of recycled glass, stiff rolls with no bending after installation thanks to its great elasticity, easy to handle, cheap to carry because it is compressed in the packaging.

Available in three different thicknesses: 45, 70 and 95 mm.

TWR1600



DESCRIPTION	CODE	Th. mm	L mm	rolls/ package	m ² / package	PALLET n. packages	PALLET m ²	LOG.
Rolls 600 x L mm λ=0,039 W/mK Euroclass A1	TWR12602000S045RP	45	20000	2	24,00	20	480,00	B
Rolls 600 x L mm λ=0,039 W/mK Euroclass A1	TWR12601300S070RP	70	13000	2	15,60	20	312,00	B
Rolls 600 x L mm λ=0,039 W/mK Euroclass A1	TWR12601000S095RP	95	10000	2	12,00	20	240,00	B

Delivery terms are indicative (see General Conditions of Sale FIBRAN S.p.A.)

A prompt delivery / B delivery within 10 business days / C verify with the sales manager the availability and minimum order quantity.

*available from Roccastrada plant for mixed cargo.

PARTITIONS

The table below shows the indicative quantities per square meter of partition, calculated on the basis of a model size of 3 m x 20 m, without considering the waste.

The types considered are:

1. Stud centre 400 mm, single layer each side
2. Stud centre 600 mm, single layer each side
3. Stud centre 400 mm, double layer each side
4. Stud centre 600 mm, double layer each side
5. Stud back-to-back centre 400 mm, single layer each side
6. Stud back-to-back centre 600 mm, single layer each side
7. Stud back-to-back centre 400 mm, double layer each side
8. Stud back-to-back centre 600 mm, double layer each side



Single stud	Single layer		Double layer	
	400 mm	600 mm	400 mm	600 mm

Centre between studs	400 mm	600 mm	400 mm	600 mm
Boards FIBRANGypS	2,00 m ²	2,00 m ²	4,00 m ²	4,00 m ²
Channels FIBRANprofiles	0,67 m	0,67 m	0,67 m	0,67 m
Vertical studs FIBRANprofiles	2,60 m	2,00 m	2,60 m	2,00 m
Stone wool FIBRANgeo	1,00 m ²	1,00 m ²	1,00 m ²	1,00 m ²
Dowels FIBRANGypS	1,70 pz	1,70 pz	1,70 pz	1,70 pz
Screws FIBRANGypS	35 pz	25 pz	55 pz	45 pz
Tape FIBRANGypS	3,4 m	3,0 m	3,4 m	3,0 m
Joint filler FIBRANGypS JF	0,80 kg	0,70 kg	1,20 kg	1,00 kg

Back-to-back stud	Single layer		Double layer	
	400 mm	600 mm	400 mm	600 mm

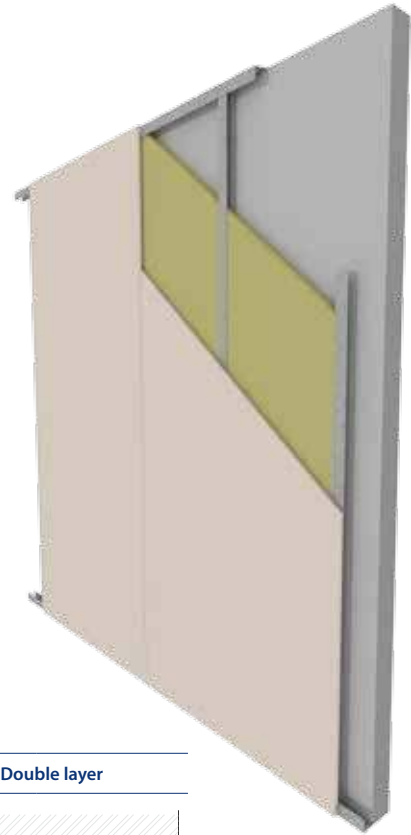
Distance between studs	400 mm	600 mm	400 mm	600 mm
Boards FIBRANGypS	2,00 m ²	2,00 m ²	4,00 m ²	4,00 m ²
Channels FIBRANprofiles	0,67 m	0,67 m	0,67 m	0,67 m
Vertical studs FIBRANprofiles	5,50 m	4,00 m	5,50 m	4,00 m
Stone wool FIBRANgeo	1,00 m ²	1,00 m ²	1,00 m ²	1,00 m ²
Dowels FIBRANGypS	1,70 pz	1,70 pz	1,70 pz	1,70 pz
Screws FIBRANGypS	35 pz	25 pz	55 pz	45 pz
Tape FIBRANGypS	3,4 m	3,0 m	3,4 m	3,0 m
Joint filler FIBRANGypS JF	0,80 kg	0,70 kg	1,00 kg	1,00 kg

LININGS - independent structure

The table below shows the indicative quantities per square meter of lining, calculated on the basis of a model size of 3 m x 20 m, without considering the waste.

The types considered are:

1. Stud centre 400 mm, single layer each side
2. Stud centre 600 mm, single layer each side
3. Stud centre 400 mm, double layer each side
4. Stud centre 600 mm, double layer each side



Single stud	Single layer		Double layer	
	400 mm	600 mm	400 mm	600 mm
Distance between studs	400 mm	600 mm	400 mm	600 mm
Boards FIBRANGyps	1,00 m ²	1,00 m ²	2,00 m ²	2,00 m ²
Channels FIBRANprofiles	0,67 m	0,67 m	0,67 m	0,67 m
Vertical studs FIBRANprofiles	2,60 m	2,00 m	2,60 m	2,00 m
Stone wool FIBRANgeo	1,00 m ²	1,00 m ²	1,00 m ²	1,00 m ²
Dowels FIBRANGyps	1,70 pz	1,70 pz	1,70 pz	1,70 pz
Screws FIBRANGyps	18 pz	13 pz	30 pz	20 pz
Tape FIBRANGyps	1,7 m	1,5 m	1,7 m	1,5 m
Joint filler FIBRANGyps JF	0,40 kg	0,50 kg	0,40 kg	0,50 kg

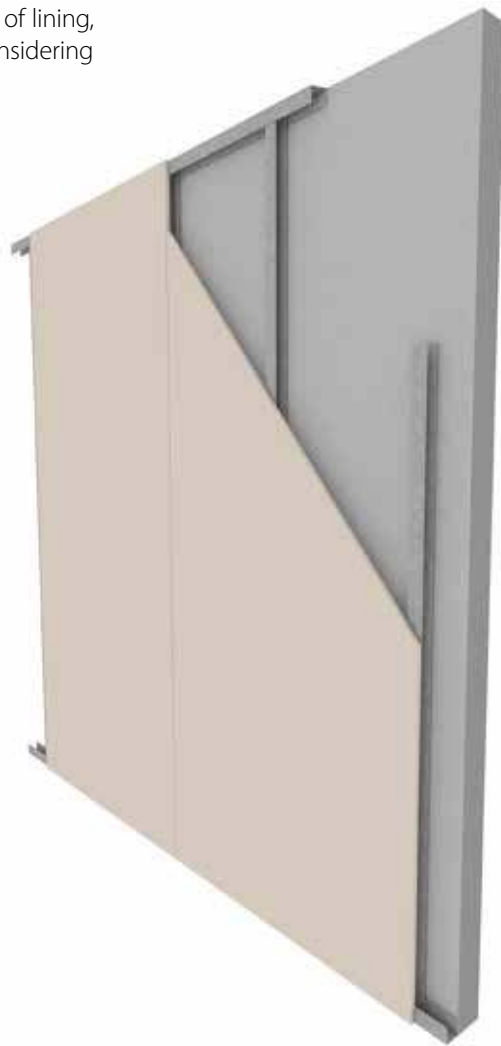
Back-to-back stud	Single layer		Double layer	
	400 mm	600 mm	400 mm	600 mm
Interasse montanti	400 mm	600 mm	400 mm	600 mm
Boards FIBRANGyps	1,00 m ²	1,00 m ²	2,00 m ²	2,00 m ²
Channels FIBRANprofiles	0,67 m	0,67 m	0,67 m	0,67 m
Vertical studs FIBRANprofiles	5,50 m	4,00 m	5,50 m	4,00 m
Stone wool FIBRANgeo	1,00 m ²	1,00 m ²	1,00 m ²	1,00 m ²
Dowels FIBRANGyps	1,70 pz	1,70 pz	1,70 pz	1,70 pz
Screws FIBRANGyps	18 pz	13 pz	30 pz	20 pz
Tape FIBRANGyps	1,7 m	1,5 m	1,7 m	1,5 m
Joint filler FIBRANGyps JF	0,40 kg	0,50 kg	0,40 kg	0,50 kg

LININGS - spacer hook

The table below shows the indicative quantities per square meter of lining, calculated on the basis of a model size of 3 m x 20 m, without considering the waste.

The types considered are:

1. Stud centre 400 mm, single layer each side
2. Stud centre 600 mm, single layer each side



	Single layer	
Distance between studs	400 mm	600 mm
Boards FIBRANGyps	1,00 m ²	1,00 m ²
Channels 28/30 FIBRANprofiles	0,67 m	0,67 m
Vertical studs 49/15 o 49/27 FIBRANprofiles	2,60 m	2,00 m
Spacer hook FIBRANGyps	4,00 pz	2,00 pz
Dowels FIBRANGyps	1,70 pz	1,70 pz
Screws FIBRANGyps	18 pz	13 pz
Tape FIBRANGyps	1,7 m	1,5 m
Joint filler FIBRANGyps JF	0,40 kg	0,50 kg

SUSPENDED CEILING - double structure

The table below shows the indicative quantities per square meter of ceiling, calculated on the basis of a model size of 10 m x 10 m, without considering the waste.

The types considered are:

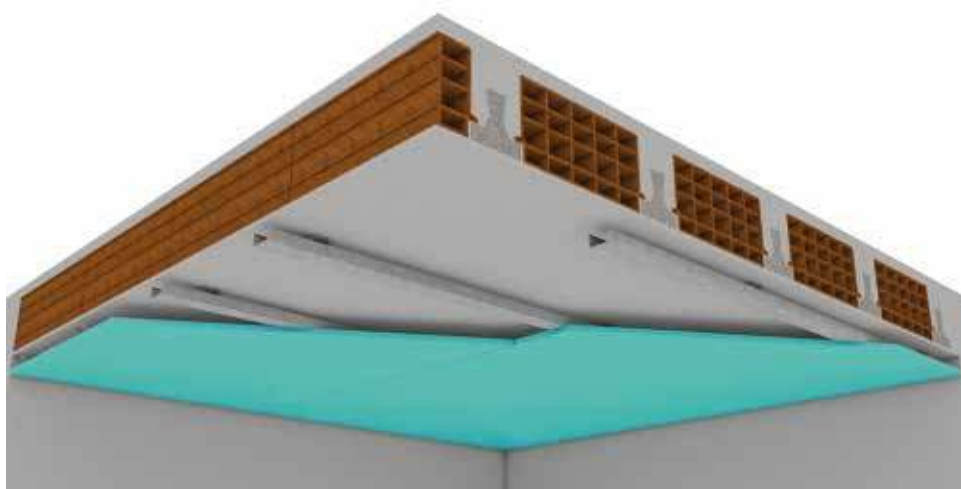
1. Single layer
2. Double layer



	Single layer	Double layer
Materials		
Boards FIBRANgyps	1,00 m ²	2,00 m ²
Channels 28/30 FIBRANprofiles	0,4 m	0,4 m
Vertical studs 49/27 FIBRANprofiles	3,00 m	3,00 m
Orthogonal union hook FIBRANprofiles	7,00 pz	7,00 pz
Spring hook FIBRANgyps	0,84 pz	0,84 pz
Screws FIBRANgyps	15 pz	20 pz
Tape FIBRANgyps	1,20 m	1,20 m
Joint filler FIBRANgyps JF	0,40 kg	0,40 kg

No plenum Ceiling

The table below shows the indicative quantities per square meter of ceiling, calculated on the basis of a model size of 10 m x 10 m, without considering the waste.



	Single layer
Materials	
Boards FIBRANGyps	1,00 m ²
Channels 28/30 FIBRANprofiles	0,4 m
Vertical studs 49/27 FIBRANprofiles	2,00 m
Spacer hook FIBRANGyps	2,00 pz
Screws FIBRANGyps	15 pz
Tape FIBRANGyps	1,20 m
Joint filler FIBRANGyps JF	0,40 kg

EUROPEAN STANDARD TESTS

The following results are obtained according to the standard EN 13501-2 "Fire classification of construction products and building elements – Classification using test data from reaction to fire tests", and in particular the specific reference standards for each building element.

UNI EN 1364-1: "Fire resistance tests for non-loadbearing elements - Walls"

UNI EN 1364-2: "Fire resistance tests for non-loadbearing elements - Ceilings"

UNI EN 1365-1: "Fire resistance tests for loadbearing elements - Walls"

UNI EN 1365-2: "Fire resistance tests for loadbearing elements - Floors and roofs"



PARTITIONS

Code	Scheme	System description	EI	Certificate	Standard
FW 105/75		<ul style="list-style-type: none"> • 1 FIBRANGyps F 15 • "U" channel 40 x 75 x 40 mm • "C" studs 47 x 74 x 50 mm, centre 600 mm 	60	50/C/10-89FR H max 4 m	Test EN 1364-1
FW 98/48 mw		<ul style="list-style-type: none"> • 2 FIBRANGyps F 13 • "U" channel 30 x 48 x 30 mm • "C" studs 34 x 46,5 x 36 mm, centre 600 mm • FIBRANGeoboard B - 070 th. 40 mm 	90	CSI 1779 FR H max 4 m	Test EN 1364-1
FW 98/48		<ul style="list-style-type: none"> • 2 FIBRANGyps F 13 • "U" channel 40 x 48 x 40 mm • "C" studs 34 x 46,5 x 36 mm, centre 600 mm 	120	I.G. 304716/3532FR H max 4 m	Test EN 1364-1
FW 125/75		<ul style="list-style-type: none"> • 2 FIBRANGyps F 13 • "U" channel 40 x 75 x 40 mm • "C" studs 47 x 74 x 50 mm, centre 600 mm 	120	LAPI 103/C/12-160FR Technical dossier H max 17,5 m	Test EN 1364-1
FW 125/75 mw		<ul style="list-style-type: none"> • 2 FIBRANGyps F 13 • "U" channel 40 x 75 x 40 mm • "C" studs 47 x 74 x 50 mm, centre 600 mm • FIBRANGeoboard B-050 th. 50 mm 	120	LAPI 103/C/12-160FR Technical dossier H max 17,5 m	Test EN 1364-1
IFW 126/75 mw		<ul style="list-style-type: none"> • 1 FIBRANGyps F 13 • 1 FIBEROCK AR 12,7 mm • "U" channel 40 x 75 x 40 mm • "C" studs 47 x 74 x 50 mm, centre 600 mm • FIBRANGeoboard B-060 th. 50 mm 	120	I.G. 304717/3533FR H max 4 m	Test EN 1364-1
STW 98/48		<ul style="list-style-type: none"> • 2 FIBRANGyps A 13 • "U" channel 40 x 48 x 40 mm • "C" studs 34 x 46,5 x 36 mm, centre 600 mm 	90/60	LAPI 168/C/14 - 243 FR Technical dossier EI 90 H max 4 m EI 60 H max 15,9 m	Test EN 1364-1
STW 98/48 mw		<ul style="list-style-type: none"> • 2 FIBRANGyps A 13 • "U" channel 40 x 48 x 40 mm • "C" studs 34 x 46,5 x 36 mm, centre 600 mm • FIBRANGeoboard B - 050 th. 50 mm 	90/60	LAPI 168/C/14 - 243 FR Technical dossier EI 90 H max 4 m EI 60 H max 15,9 m	Test EN 1364-1
FSW 159/5/48 S		<ul style="list-style-type: none"> • 1 FIBRANGyps F 13 • 1 FIBRANGyps A 13 • double staggered frame, "U" channel 30x48x30mm and "C" stud 34x46,5x36 mm centre 600 mm • 1 FIBRANGyps A 13 in the middle 	120	LAPI 225/C/17-320FR H max 4 m	Test EN 1364-1

TECHNICAL PARTITIONS AND LININGS

Code	Scheme	System description	REI/ EI	Certificate	Application	Standard
Independent partition with inspection hatches SW-F 105/75		<ul style="list-style-type: none"> • 2 FIBRANGYPS F 15 • "U" channel 40 x 75 x 40 mm • "C" studs 47 x 74 x 50 mm, centre 600 mm • 2 inspection hatches 	EI 60	CSI 1624FR	H max 4 m*	Test EN 1364-1
Independent partition SW-F 86/48		<ul style="list-style-type: none"> • 3 FIBRANGYPS F 13 • "U" channel 40 x 48 x 40 mm • "C" studs 34 x 46,5 x 36 mm, centre 600 mm 	EI 90	LAPI 167/C/14-242-FR	H max 4 m*	Test EN 1364-1
Independent partition SW-F 125/75		<ul style="list-style-type: none"> • 4 FIBRANGYPS F 13 • "U" channel 40 x 75 x 40 mm • "C" studs 47 x 74 x 50 mm, centre 600 mm 	EI 120	I.G. 304644/3527FR	H max 4 m*	Test EN 1364-1
Brick wall protection		<ul style="list-style-type: none"> • Perforated brick size 80 mm with 10 mm of plaster on each sides • 1 FIBRANGYPS F 15 • Expansion metal dowel with a minimum diameter of 8 mm, centre 550 mm 	EI 120	CSI 1657FR	H max 4 m*	Test EN 1364-1
Lining CLT (Cross Laminated Timber) with one layer of FIBRANGYPS F		<ul style="list-style-type: none"> • CLT load-bearing structure thickness 83 mm • 1 FIBRANGYPS F 13 directly fixed to CLT structure 	EI 90	CSI – test number to be issued	H max 4 m*	Test EN 1364-1
Lining CLT (Cross Laminated Timber) with FIBRANGYPS SUPER		<ul style="list-style-type: none"> • CLT load-bearing structure thickness 90 mm • 1 FIBRANGYPS SUPER 13 • U channel 40 x 50 x 40 mm • C studs 47 x 49 x 50 mm, centre 600 mm • Stonewool board in cavity FIBRANGEO B-040 th. 40 mm 	EI 120	CSI – test number to be issued	H max 4 m*	Test EN 1364-1

* for height greater than 4 meters contact FIBRAN Technical Office.

CEILING

Type	Scheme	Description	Frame	REI/ EI	Certificate	Standard
Membrane ceiling MC 30/57		<ul style="list-style-type: none"> • 2 FIBRANGYPS F 15 • Double frame of "C" profiles 27 x 49 x 27 mm 	Main frame maximum centre 750 mm, hangers centre 600 mm; secondary frame centre 400 mm	EI 60	I.G. 288371/3354FR	Test EN 1364-2
Membrane ceiling FMC 90		<ul style="list-style-type: none"> • 2 FIBRANGYPS F 15 • + 1 FIBRANGYPS F 13 • Double frame of "C" profiles 17 x 47 x 17 mm 	Main frame placed at a maximum spacing of 750 mm, with hangers centre 600 mm; secondary frame centre 400 mm	EI 90	CSI 2048 FR	Test EN 1364-2
Membrane ceiling FMC 84/34 A		<ul style="list-style-type: none"> • 4 FIBRANGYPS F 13 • Double frame of "C" profiles 17 x 47 x 17 mm 	Main frame placed at a maximum spacing of 750 mm, with hangers centre 600 mm; secondary frame centre 400 mm	EI 120	CSI 1981 FR	Test EN 1364-2
Ceiling MC 30/57		<ul style="list-style-type: none"> • non plastered Steel concrete composite slab 16+4 cm • 1 FIBRANGYPS F 15 • Single frame "C" profiles 27 x 49 x 27 mm 	Frame maximum centre 400 mm, dowels centre 600 mm	REI 120	I.G. 304645/3528FR	Test EN 1365-2

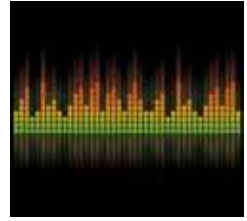
The tables show the values obtained from laboratory tests and a brief description of the systems. It is the responsibility of the user to verify compliance with the classification and testing reports, also with the help of FIBRAN Technical Office.

FIBRANgyps SOLUTION FOR ACOUSTIC INSULATION

ACOUSTIC TESTS

The results below are obtained with laboratory measurements, executed in accordance with International Standard EN ISO 140-3 and valued in accordance with International Standard EN ISO 717-1.

Rw- Weighted Sound Reduction Index- is a number used to rate the effectiveness of a soundproofing system. It is theoretical (lab) and unreachable in reality, due to lateral dispersions and to different yard conditions.



System	Scheme	Thickness [mm]	Description	Rw [dB]	Certificate
SW 100/50 mw		100	<ul style="list-style-type: none"> • 4 FIBRANgyps A 13 • FIBRANgeo B-040 th. 40 mm • FIBRANprofiles stud 50 mm 	51	I.G. 218232
SW 125/75 mw		125	<ul style="list-style-type: none"> • 4 FIBRANgyps A 13 • FIBRANgeo B-050 th. 50 mm • FIBRANprofiles stud 75 mm 	54	I.G.218234
IW 125/75 mw		125	<ul style="list-style-type: none"> • 2 FIBRANgyps A 13 • 2 FIBRANgyps ID13 • FIBRANgeo B-040 th. 40 mm • FIBRANprofiles stud 75 mm 	55	I.G. 313377
SUPER 125/75 mw		125	<ul style="list-style-type: none"> • 2 FIBRANgyps SUPER 13 • FIBRANgeo B-050 th. 50 mm • "U" Channel FIBRANprofiles 40x75x40 mm • "C" Studs FIBRANprofiles, centre 600 m 	59	I.G.324834
VF 61		402,5	<ul style="list-style-type: none"> • Hollow masonry brick th. 25 mm plastered on each side • FIBRANgeo B-570 YM th. 60 mm • Cavity 5 cm - FIBRANprofiles • External board FIBRANgyps NEXT BOARD finished with FIBRANgyps NEXT COAT 	61.4	I.G. 313372
DW 180/50/30P mw		180	<ul style="list-style-type: none"> • 4 FIBRANgyps A 13 • 2 FIBRANgeo B-040 th. 40 mm • Double frame FIBRANprofiles studs 50 mm • Cavity 30 mm 	62	I.G.218233
SW 213/75P mw		213	<ul style="list-style-type: none"> • 4 FIBRANgyps A 13 • 2 FIBRANgeo B-050 th. 50 mm • Double frame FIBRANprofiles stud 75 mm • 1 FIBRANgyps SUPER 13 • 4 electric boxes 	62.7	I.G. 295784
EW 270/100+75P mw		270	<ul style="list-style-type: none"> • 1 FIBRANgyps NEXT BOARD 12,5 mm • FIBRANprofiles stud 100 mm • FIBRANgeo B-001 th. 80 mm • 1 FIBRANgyps H1 13 in cavity • FIBRANprofiles stud 75 mm • FIBRANgeo B-570 th. 60 mm • 1 FIBRANgyps V and 1 FIBRANgyps ID 13 	67.1	I.G. 313376
LW AGeo 13+40		53	<ul style="list-style-type: none"> • Perforated brick th. 80 mm plastered each side • FIBRANgyps AGeo 13+40 glued and doweled 	54.6	I.G. 325021
LW 63/50 mw		63	<ul style="list-style-type: none"> • Perforated brick th. 80 mm plastered each side • FIBRANprofiles stud 50 mm • FIBRANgeo B-040 th. 40 mm • 1 FIBRANgyps A 13 	55.3	I.G. 325020
LW XLAM 75/50 mw		175	<ul style="list-style-type: none"> • X-LAM wall th. 10 cm • 2 FIBRANgyps SUPER 12,5 • FIBRANgeo B-040 th. 40 mm • FIBRANprofiles stud 50 mm 	62	I.G. 324835
LW XLAM 75+75 / 50+ 50 mw		250	<ul style="list-style-type: none"> • X-LAM wall th. 10 cm • 4 FIBRANgyps SUPER 12,5 • FIBRANgeo B-040 th. 40 mm • 2 FIBRANprofiles stud 50 mm 	70	I.G. 324835
FSW 159/5/48 S mw		159	<ul style="list-style-type: none"> • 1 FIBRANgyps F 13 + 1 FIBRANgyps A 13 each side • double staggered metal frame, "U" channel 30x48x30mm and "C" stud 34x46,5x36 mm centre 600 mm • 1 FIBRANgyps A 13 in the middle • Stonewool board in cavity FIBRANgeo B-040 th. 40 mm 	64.7	I.G. – test number to be issued

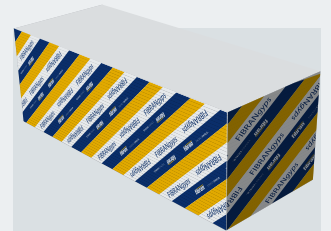


LOGISTICS

Logistics

To meet delivery commitments to their customers, FIBRAN chooses different transport solutions for a fast and effective delivery.

The main transportations take place via trucks or cargo ship, but also via trains or planes, thanks to special and innovative packaging that allows to load the materials on pallets and containers in a safe and optimized way.



EPD[®] Environmental Product Declaration

It's an independently verified and registered document that communicates transparent and comparable information about the life-cycle environmental impact of products.

As a voluntary declaration of the life-cycle environmental impact, having an **EPD[®]** for a product does not imply that the declared product is environmentally superior to alternatives.

The relevant standard for Environmental Product Declarations is ISO 14025, where they are referred to as "type III environmental declarations".

A type III environmental declaration is created and registered in the framework of a programme, such as the International **EPD[®] System**.

An **EPD[®]** may be used for many different applications, including Green Public Procurement (GPP) and building assessment schemes.

The concept of type III environmental declarations was developed to primarily be used in business-to-business communication, but their use in business-to-consumer communication is not precluded by the standards.

An **EPD** can therefore be classified as an "Ecolabel", although its main difference compared to the other systems regulated by the ISO 14020 family of standards (eco-labels and environmental self-declarations), is that an EPD does not define environmental requirements or minimum values to comply with (there is no list of environmental requirements that comply with the product in order to be certified), but the results of the study of ACV carried out on the certified product in order to offer an image of the behavior environmental of the same.

Therefore, the fact that a product has an **EPD** does not mean that it is environmentally better or worse than someone who does not have it, because the goal of an **EPD** is not identify ecological products: its objective is to provide information on environmental behavior of the product to allow comparisons with other similar products. It is a report detailed with very technical information, not simply a symbol or logo.

All **EPD[®]s** registered in the International **EPD[®] System** are publically available and free to download through the EPD Search on the website www.environdec.com.

FIBRAN has obtained **EPD** for plasterboards **FIBRANgyps A13** and **FIBRANgyps A15**.



LEED®

LEED®, acronym for Leadership in Energy and Environmental Design, is an evaluation system of energy and environmental performances of buildings.

LEED® scheme is voluntary and permits to obtain a certification of buildings attesting the achievement of high performances. It is based on planning and coordination between design, construction and management of the building.

FIBRAN was assisted by ICMQ in mapping FIBRANgyps boards and in correctly identifying **LEED®** credits.

LEED® does not certify individual construction products but all products can contribute to the requirements requested by the credits.

FIBRANgyps plasterboards are CE marked according to EN 520, have a core of natural and recycled gypsum (sulphate Calcium bi-hydrate: CaSO₄ · 2H₂O) and specific additives for each type of board. The coating is 100% recycled paper and Volatile Organic Components (VOC) percentage are very low (Class A+).

Roccastrada Factory (GR)	LEED® credits applicable in function of product features					
	MATERIALS AND RESOURCES			INDOOR AIR QUALITY		
FIBRANgyps plasterboards	Reuse materials	Recycled content	Materials extracted, processed and limited distance produced (regional materials)	Minimum acoustic performances	Acoustic performances	Mold prevention
	MR Credit 3	MR Credit 4	MR Credit 5	QI Prerequisito 3	MR Credit 9	MR Credit 10
	1 - 2 points	1 - 2 points	1 - 2 points	Obbligatorio	1 points	1 points
	LEED® credits applicable in function of product management from design to site					
	MATERIALS AND RESOURCES			INDOOR AIR QUALITY		
	Reuse of buildings maintaining 50% of internal non-structural elements		Construction waste management	IAQ management plan – construction phase		
	MR Credit 1.2		MR Credit 2	QI Credit 3.1		
	1 points		1 - 2 points	1 points		



Km 0

The plant is located inside the gypsum quarry itself, so the gypsum raw material is not subject to additional transport.

For more information contact the Technical Office. **FIBRAN** reserves the right to alter or amend product specifications without notice.

The information included in this publication is correct to the best of our knowledge at the time of printing.

Whilst **FIBRAN** will endeavor to ensure publications are up to date, it is under the users' responsibility to check with the Company the validity of the information prior to materials use.

HEALTHCARE FACILITIES

- «SAN MARCO» HOSPITAL - CATANIA
- «SANTA FAMIGLIA» CLINIC - ROME
- HOSPITAL - MASSA CARRARA
- «DEL BAMBINO» HOSPITAL - PALERMO
- CIVIL HOSPITAL - BRESCIA
- RSA- SETTIMO TORINESE (TURIN)
- HOSPITAL SANT JOAN DE DEU - MANRESA - SPAIN
- FELTRE HOSPITAL (BELLUNO)
- GENERAL HOSPITAL - MESSINA
- «HUMANITAS» CLINIC - CATANIA
- NEW HEALTH CENTER PIOLTELLO - MILAN
- HUD GENEVA UNIVERSITY HOSPITAL - GENEVA



SHOPPING CENTERS

- SHOPPING CENTER «GLOBO»- BARI
- SHOPPING CENTER «METROPOLI»- MILAN
- SHOPS - SHOPPING CENTER «ADRIATICO» - PORTO GRUARO (VENICE)
- MERCADO MUNICIPAL DE LA VALL D'UIXÓ - CASTELLON (SPAIN)
- «PELLIZZARI» SHOPS - VERONA
- SHOP BURBERRY - BARCELONA - SPAIN

OFFICES

- UNICREDIT HEADQUARTERS - MILAN
- REGION TOWER - PIEMONTE TURIN
- NAS OFFICES - PARMA
- ISOZAKI TOWER - MILAN
- BMW HEADQUARTERS - SALA CONSILINA (SALERNO)
- ORANGE HEADQUARTERS - MADRID
- TOLY PRODUCTS - NEW OFFICE BLOCK - MALTA
- IRU HEADQUARTERS - GENEVA

HOTELS

- HOTEL MAJESTIC - BARCELONA - SPAIN
- HOTEL PRINCESA SOFIA - BARCELONA - SPAIN
- HOTEL GOLD RIVER PORT AVENTUR - TARRAGONA - SPAIN



SCHOOLS

- NEW HIGH SCHOOL - ACQUAVIVA DELLE FONTI (BA)
- PRIMARY SCHOOL «GINESTRINO»- MILAN
- SCHOOL - RAIANO (L' AQUILA)
- UNIVERSITY OF CATANIA - BIOLOGICAL TOWER
- UNIVERSITY POMPEU FABRA - BARCELONA - SPAIN
- RESEARCH INSTITUTE LIFE SCIENCES - SAN GWANN - MALTA
- ICT BLOCK UNIVERSITY OF MALTA - MALTA

INDUSTRIAL COMPLEX

- "ICO SRL" INDUSTRY - PESCARA
- MOKAMBO ROASTING - CHIETI
- "PAIL" INDUSTRY PORTE LANCIANO - CHIETI
- ALENIA - L'AQUILA
- GAMBRO - MIRANDOLA (REGGIO EMILIA)

RESIDENTIAL BUILDINGS

- RESIDENTIAL BUILDING "VIA DI PIETRALATA" - ROME
- EUROSKEY RESIDENTIAL TOWER - ROME
- RESIDENTIAL BUILDING - VERONA
- MONOFAMILIAR BUILD - CROPANI MARINA (CATANZARO)
- MONOFAMILIAR BUILD - NOCERA INFERIOR (SA)
- RESIDENTIAL BUILDINGS TREVIGLIO (BERGAMO)
- FRASER SUITE, LUXURY APARTMENTS - GENEVE - SWITZERLAND
- TIGNE POINT - LUXURY APARTMENTS BLOCK - SLIEMA (MALTA)



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