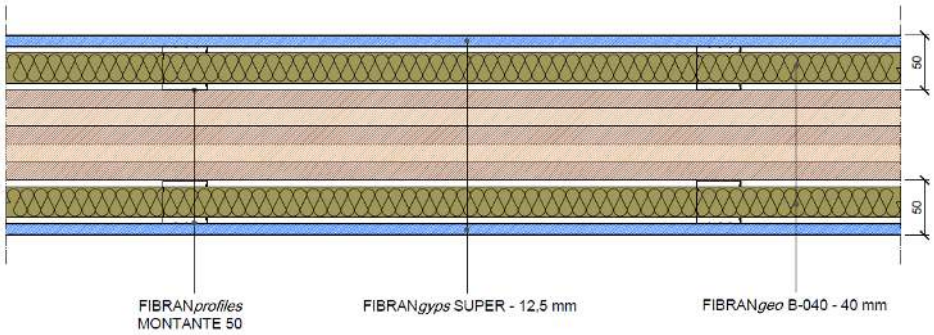
Lining FIBRAN **LW XLAM 63+63/50+50 mw**

Drywall lining - REI120 - thickness 63+63 mm – X-LAM th. 90 mm



COMPONENTS

Plasterboards

1 layer of **FIBRAN*gyps* SUPER** both side, thickness **12,5 mm**, CE marked– **type D, I, F, H1, R** according to EN 520, classified **A+** according to EN ISO 16000-09, fire reaction **A2-s1,d0** according to EN 13501-1, controlled density more than 1000 kg/m^3, enhanced surface hardness, improved core adhesion at high temperature, reduced water absorption rate (total <5% ; surface 180 g/m^2), higher strength (flexural breaking load > 725 N), weight 12,7 kg/m^2, water vapor resistance factor μ=10, thermal conductivity λ=0,25 W/m K and specific heat cp=1,03 kJ/kg K according to EN 10456

Metal frame thickness 0,6 mm conform to EN 14195

Channels **FIBRAN*profiles* GUIDA 50** mechanically fixed to the floor and ceiling using fixing nails at a maximum spacing of 500 mm;

Studs **FIBRAN*profiles* MONTANTE 50**, max axial spacing every 600 mm, slotted to allow passage of the installations

Insulation board in cavity

FIBRAN*geo* B-040, biosoluble stone wool board, density **40 kg/m^3**, thickness **40 + 40 mm**, fire reaction A1 according to EN 13501-1, thermal conductivity 10°C **λ_D = 0,034 W/m K** according to EN 12667 and EN 12939, water vapour diffusion resistance factor μ= 1 according to EN 12086, specific heat capacity cp=1,03 kJ / kg K according to EN 10456

Screws

Self-drilling screws **FIBRAN*gyps* SCREW SUPER 3,9 x 38 mm** fixed max 250 mm each

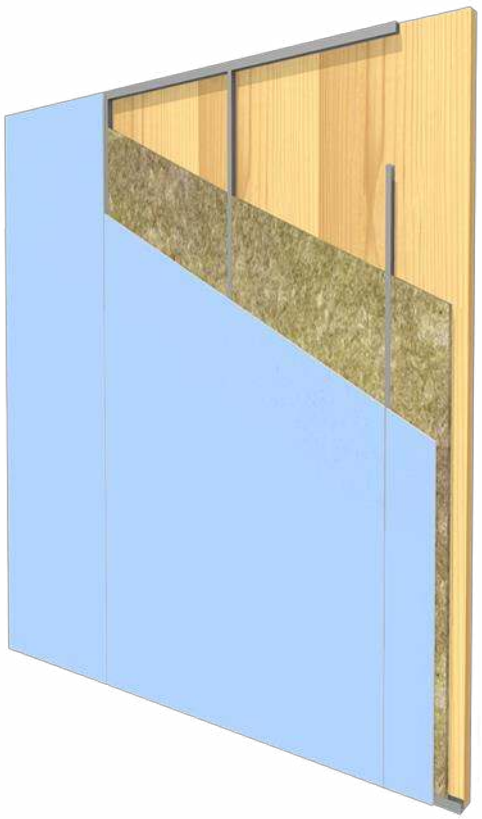
Adhesive tape and joint filler

Closed cell polyethylene foam adhesive tape **FIBRANgyps** to be applied on the entire perimeter of the metal structure, to eliminate the possible acoustic bridges due to the transmission of noise through the building structures.

Treatment of the joints between plasterboards and head of screws with **FIBRAN*gyps* JF,** CE marked 3B according to EN 13963, and reinforcing tape **FIBRAN*gyps* TAPE** according to the level quality Q2 (Eurogypsum)

System Data Sheet

Lining FIBRAN **LW XLAM 63+63/50+50 mw** Technical features



Acoustics

Rw = 70 dB – test report Istituto Giordano n° 324835 (with 1 layers of FIBRAN*gyps* SUPER each side th. 12,5 mm and XLAM th. 100 mm)

Fire rating

Fire rating: **REI 120** (Classification Report CSI 2173FR according to EN 1364-1)
Max height: 4,00 m

Thermal Insulation

U = 0,27 W/m^{2}K – calculated with software

Mechanical performance

FIBRAN*profiles* channels and studs DIN 50 mm, max axial spacing every 600 mm, thickness 6/10 mm conform to EN 14195.
Profiles must be designed according to local regulation and specific application.
In case of walls longer than 15 meters, an expansion joint must be made every 10 meters or at structural joints

Finishing

According to quality level required (Eurogypsum). Use FIBRAN*gyps* JF READY MIX for level Q4

Sustainability

FIBRAN*gyps* plasterboards are classified A+, the best one according to EN ISO 16000-09, with regards to the emission of formaldehyde, acetaldeyde and other substances

Impact resistance hard body

According to ETAG 003, non-load bearing partition walls, 1 kg steel sphere falling 10 times from different heights from 60 to 160 cm (equal to 6 Nm) without any surface damage- passed

Impact resistance soft body

According to ETAG 003, non-load bearing partition walls, 50 kg bag falling 3 times from different positions from 174 cm height (equal to 120 Nm) without any functional damage- passed

Technical Data Sheet

Lining FIBRAN **LW XLAM 63+63/50+50 mw** Technical features

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*

	1 layer FIBRANgyps **SUPER 13**		2 layers FIBRANgyps **SUPER 13**		2 layers FIBRANgyps **SUPER 13**	
	Shear strength (kg)		Shear strength (kg)		Traction (kg)	
FIXINGS	Labaratory values	Recommended values	Labaratory values	Recommended values	Labaratory 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 *


Loading test on shelf
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.

48kg

* 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°3273336 by Istituto Giordano of Bellaria.

Technical Data Sheet

Lining FIBRAN **LW XLAM 63+63/50+50 mw**
Quantities of material

Indicative quantities for square meter of lining					
		quantity/m²		**quantity/m²**	
		centre 600 mm		centre 400 mm	
Description	UM				
FIBRAN*gyps*	m^2	2,1	2,1	2,1	2,1
FIBRAN*profiles* studs	m	2	4	2,6	5,2
FIBRAN*profiles* channels	m	0,7	0,7	0,7	0,7
FIBRANgeo	m^2	1,05	1,05	1,05	1,05
Joint filler FIBRAN*gyps* **JF**	kg	0,7	0,7	0,7	0,7
Adhesive tape FIBRAN*profiles*	m	1	1	1	1
FIBRAN*gyps* **TAPE**	m	1,67	1,67	1,67	1,67
FIBRAN*gyps* **SUPER SCREW** 38mm	pz	25	25	30	30

Technical Data Sheet