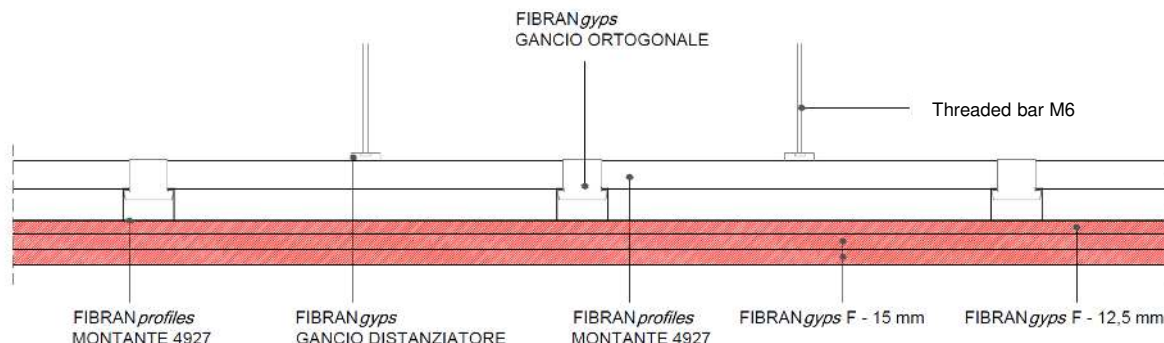


Membrane ceiling FMC 40/37

Fire resistant ceiling EI90



COMPONENTS

Plasterboards

2 layers of **FIBRANgyps F**, thickness **15 mm**, CE marked– **type F** according to EN 520, classified **A+** according to EN ISO 16000-09, fire reaction **A2-s1, d0** according to EN 13501-1, weight 13,1 kg/m², water vapor resistance factor $\mu=10$, thermal conductivity $\lambda=0,25$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to UNI EN 10456

1 layer of **FIBRANgyps F**, thickness **12,5 mm**, CE marked– **type F** according to EN 520, classified **A+** according to EN ISO 16000-09, fire reaction **A2-s1, d0** according to EN 13501-1, weight 9,8 kg/m², water vapor resistance factor $\mu=10$, thermal conductivity $\lambda=0,25$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to EN 10456

Metal frame thickness 0,6 mm conform to EN 14195

Perimeter “U” channel **FIBRANprofiles GUIDA 2830** mechanically fixed to the wall using anchors at a maximum spacing of 500 mm;

Main frame **FIBRANprofiles MONTANTE 4927**, max spacing 750 mm, fixed with threaded bars M6 and cross connectors **FIBRANprofiles GANCIO DISTANZIATORE** every 600 mm to the load-bearing slab structure;

Secondary frame **FIBRANprofiles MONTANTE 4927**, max spacing 400 mm, fixed to the main frame with orthogonal hook **FIBRANprofiles GANCIO ORTOGONALE**.

Screws

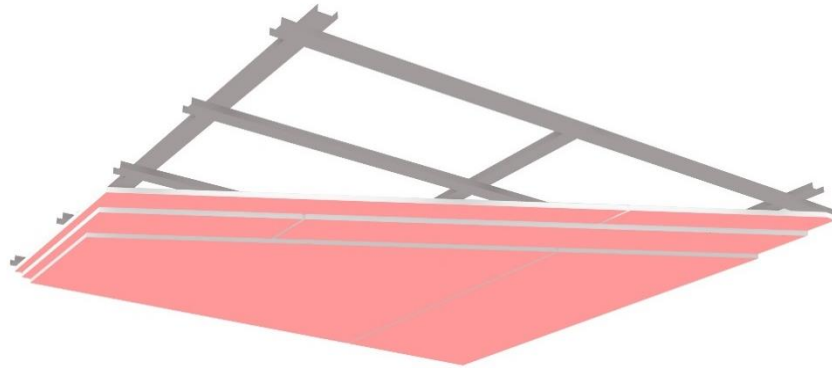
Self-drilling screws **FIBRANgyps SCREW 3,5 x 25 mm, 3,5 x 45 mm and 3,5 x 55 mm** with resistance in salt spray test not less than 72 hours, fixed max 200 mm

Adhesive tape and joint filler

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

Membrane ceiling FMC 40/37

Technical features



Fire rating

Fire rating: **EI 90** (Classification Report CSI 2048 FR according to EN 1364-2)

Mechanical performance

FIBRANprofiles channels and studs, thickness 6/10 mm conform to EN 14195.

Profiles must be designed according to local regulation and specific application.

In case of ceiling longer than 15 meters, an expansion joint must be made every 10 meters or where structural joints are

Finishing

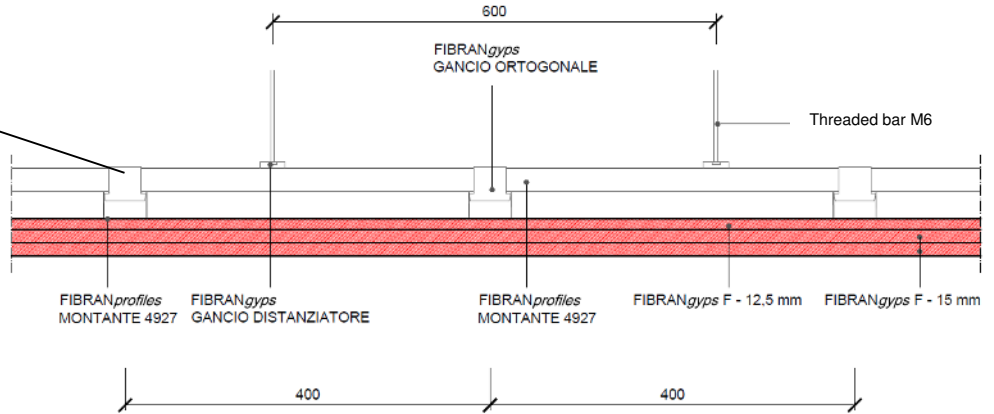
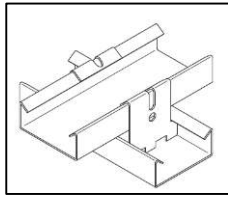
According to quality level required (Eurogypsum). Use FIBRANGYPS JF READY MIX for level Q4.

Sustainability

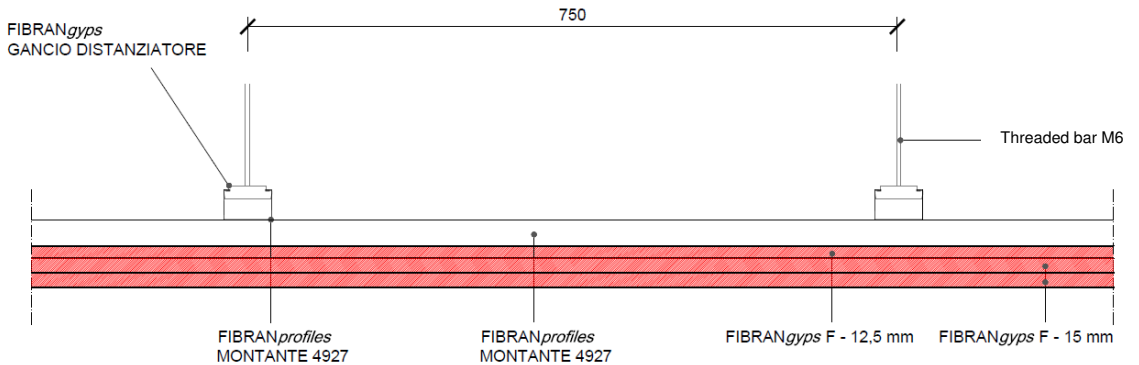
FIBRANGYPS plasterboards are classified A+, the best one according to EN ISO 16000-09, for emission of formaldehyde, acetaldehyde and other substances.

Membrane ceiling **FMC 40/37**

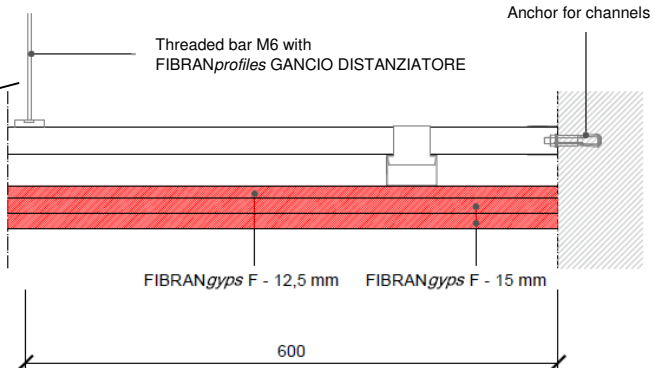
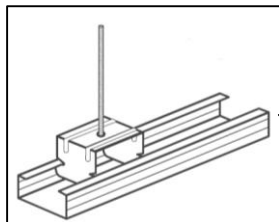
Construction details



Detail. 1 **CROSS SECTION**



Detail. 2 **LONGITUDINAL SECTION**



Detail. 3 **PERIMETER SECTION**

Membrane ceiling **FMC 40/37**

Quantities of material

Indicative quantities for square meter of ceiling (dimensions 3x4 m) – 5% waste		
		quantity/m ²
Description	UM	
FIBRANgypS F 15 plasterboards	m ²	2,1
FIBRANgypS F 13 plasterboards	m ²	1,05
FIBRANprofiles MONTANTE 4927 stud	m	4,4
FIBRANprofiles GUIDE 2830 channel	m	0,7
Joint filler FIBRANgypS JF	kg	0,35
FIBRANprofiles GANCIO ORTOGONALE orthogonal hook	pz	7
FIBRANprofiles GANCIO DISTANZIATORE cross connector	pz	2,45
Threaded bars M6	pz	2,45
FIBRANprofiles TASSELLO anchor for ceiling	pz	2,45
FIBRANprofiles TASSELLO anchor for channels	pz	2,62
FIBRANgypS TAPE fiber-glass tape	m	2,01
FIBRANgypS SCREW 25mm	pz	10,6
FIBRANgypS SCREW 45mm	pz	14,7
FIBRANgypS SCREW 55mm	pz	16,8