



The best housing experience Working for a better world



TGypsum is a modular panel composed of gypsum and glass fibre, which can be used for internal partitions, counter-walls and counter-ceilings with no need to apply any finishing plaster.

The fibre gypsum, a mineral and ecological product, counts on the microporosity among its most significant advantages; this characteristic can regulate environmental humidity, by absorbing and releasing it to keep optimal levels even when the climatic values would tend to alter its gradation. This guarantees healthy environments, quality and safety.

TGypsum can be installed easily, quickly and with precision, being strong and light, supporting by a structure of galvanized steel.

Reaction to fire/Resistance to fire: excellent fire prevention material

REI 120 on false ceilings - REI 180 on walls and partitions.

Thermal insulation: TGypsum thanks to the micro porous structure of the plaster, provides high thermal insulation in any climate condition.

Unitary thermal transmittance: $K = 4,1 \text{ W/sqm.K}$

Sound proofing: the micro porous structure of the material makes it surprisingly soundproof. The wall thermally insulated with a mineral wool matters has a noise emission level of $R_w = 53 \text{ dB}$. The non-insulated wall has a noise level of $R_w = 41,5 \text{ dB}$.

Finishing and colour: the joints and screws, are perfectly smooth and ready to be painted. The wall, when using suitable products, can be decorated with tiles, finished in a traditional coat or with Venetian stucco.

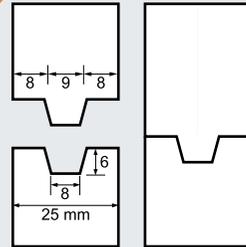
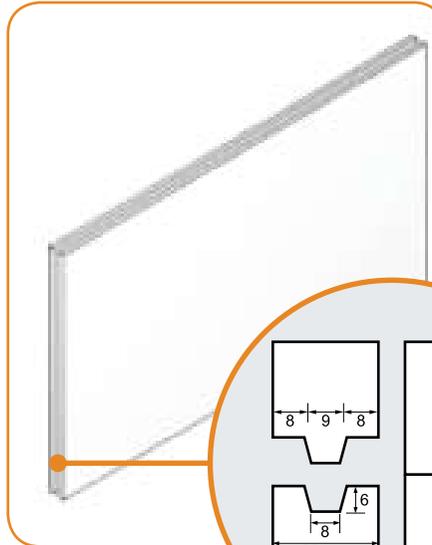
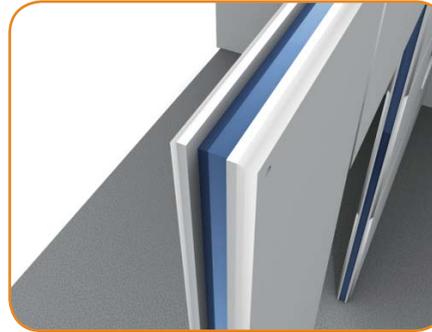
Luminous reflection: walls and ceiling in plaster reflect 75% of the incident light in a diffused manner with a pleasing effect and energy saver.

Humidity regulation: the inner micropores absorbs excess humidity from the environment and replace it when they are too dry in order to avoid condensation. Moisture permeability: according to UNI EU 12086

Mixture composition: The mixture is constituted by plaster – scagliola with micro crystal structure and reinforcement in fibre glass. There are not toxic or harmful products.

Mechanical resistance: 40 Kg on the single anchorage point with minimum span between two points is not inferior to 40 cm.

Package: on pallet with 45 boards equivalent to 30.69 sqm.



FEATURES

- ① EASY AND QUICK INSTALLATION
- ② LIGHT WEIGHT
- ③ HIGH MECHANICAL RESISTANCE
- ④ HIGH FIRE RESISTANCE
- ⑤ ACOUSTIC INSULATION
- ⑥ HUMIDITY RESITANCE
- ⑦ RESISTANCE TO WATER/MOISTURE DIFFUSION
- ⑧ HIGH THERMAL RESITANCE
- ⑨ SURFACE READY TO PAINT
- ⑩ DRY INSTALLATION
- ⑪ POSSIBILITY WORK IN HABITED ROOMS
- ⑫ ADAPTABLE TO ANY ARCHITECTURAL SPECIFIC NEED
- ⑬ FACILITING MEP WORKS

TGYPSUM OFFER CONSIDERABLE ADVANTAGES

- Light weight
- Easiness
- Flexibility
- Quick & clean
- High insulation
- High finishing quality



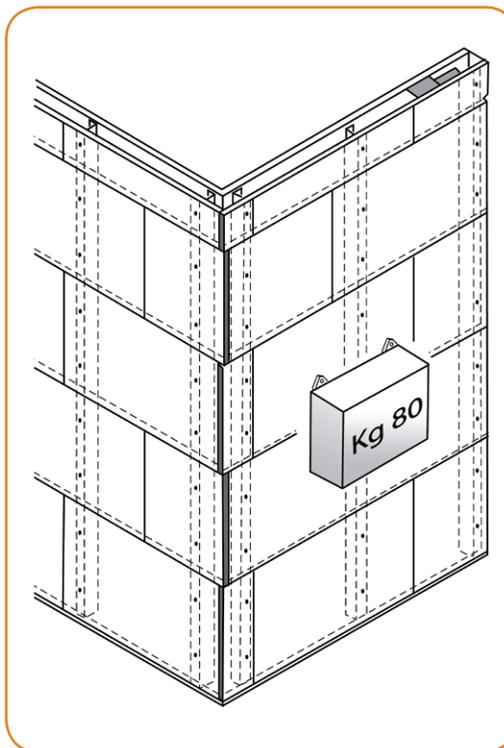
TGYPSUM PARTITION WALL DIMENSIONS

Partition wall Thickness (mm)	Rods dimensions for different thicknesses (mm)	Max height wall with different thicknesses (m)	Acoustic isolation of the insulated partition wall (dB)	Acoustic isolation of the non-insulated partition wall (dB)
100	50	3.60	Rw = 53	Rw = 41.50
125	75	5,00	Rw = 53	Rw = 41.50

TGYPSUM COUNTER WALL DIMENSIONS

Rods dimensions for different thicknesses (mm)	Thickness of the gypsum boards (mm)	Fire resistance of the insulated partition counter wall	Unitary thermal Transmittance
40	15	REI 180	4,1 W/mq.K
52	27	REI 180	4,1 W/mq.K

Conditions	T=23°C UR=0/50%	T=23°C UR=50/94%
Moisture permeability (mg/m h Pa)	0,072	0,17
Resistance to the diffusion of moisture factor	9,7	4,1



DIMENSIONS

- ① LENGTH: 100 CM
- ② WIDTH: 60 CM
- ③ THICKNESS: 2,5 COM
- ④ WEIGHT: ≈ 15 KG
- ⑤ DENSITY: ≈ 894 KG/MC

