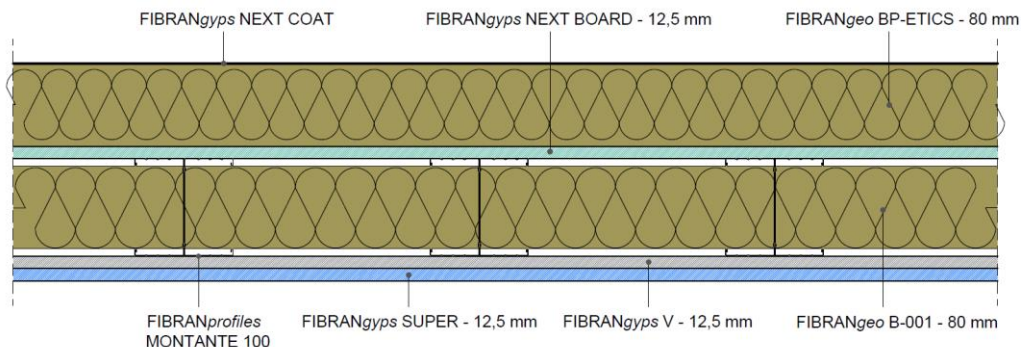


External partition FIBRAN EW 215/100 ETICS mw

External partition th. 215 mm



COMPONENTS

Plasterboards

1 layer (external side) of an innovate board **FIBRANgyps NEXT BOARD** with high resistance to moisture and water, thickness **12,5 mm**, CE marked– **type GM-H1-R** according to EN 15283-1, tapered edge (BA), fire reaction **A1** according to EN 13501-1, weight 10 kg/m², water vapor resistance factor $\mu=10$, thermal conductivity $\lambda=0,225$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to UNI EN 12524. Start profile FIBRANgyps NEXT BASE PROFILE fixed at 30 mm from the floor

1 layer of **FIBRANgyps V**, thickness **12,5 mm**, coated on the rear face with an aluminum foil as vapor barrier, CE marked according to EN 14190, classified **A+** according to EN ISO 16000-09, fire reaction **A2-s1, d0** according to EN 13501-1, weight 9,2 kg/m², water vapor resistance factor $\mu=10$ for plasterboard, $\mu=850000$ for aluminum foil, thermal conductivity $\lambda=0,25$ W/m K and specific heat $c_p=1,03$ kJ/kg K according to EN 10456

1 layer (internal side) of **FIBRANgyps SUPER**, 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/m³, enhanced surface hardness, improved core adhesion at high temperature, reduced water absorption rate (total <5% ; surface 180 g/m²), higher strength (flexural breaking load > 725 N), weight 12,7 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 $\geq 0,8$ mm conform to EN 14195

Channels **FIBRANprofiles GUIDA 100**, increased channel flange 80 mm, mechanically fixed to the floor and ceiling using fixing anchors at a maximum spacing of 500 mm;

Studs back to back **FIBRANprofiles MONTANTE 100**, max spacing every 300 mm, slotted to allow passage of the installations

Insulation board in cavity

FIBRANgeo B-001, biosoluble stone wool board, density **100 kg/m³**, thickness **80 mm**, fire reaction A1 according to EN 13501-1, thermal conductivity 10°C $\lambda_D=0,033$ W/m K according to EN 12667 and EN 12939, water vapour diffusion resistance factor $\mu= 1$ according to EN 12086, specific heat capacity $c_p=1,03$ kJ / kg K according to EN 10456

External partition FIBRAN EW 215/100 ETICS mw

External partition th. 215 mm

Screws

Self-drilling screws **FIBRANGyps NEXT SCREW 4,2 x 25 mm** with resistance in salt spray test not less than 500 hours, fixed max 200 mm;

Self-tapping screws **FIBRANGyps SUPER SCREW 3,9 x 38 mm** fixed max 200 mm each

Self-tapping screws **FIBRANGyps SCREW 3,5 x 25 mm** with resistance in salt spray test not less than 72 hours, fixed max 250 mm;

EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS

Insulation board

FIBRANgeo BP-ETICS, biosoluble stone wool board, density **115 kg/m³**, thickness **80 mm**, conform to EN 13162 and ETAG 004, CE and EUCEB marked, fire reaction A1 according to EN 13501-1, compressives stress at 10% thickness deformation 30 kPa, tensile strength perpendicular to faces 10 kPa, shear strenght 20 kPa, thermal conductivity 10°C **$\lambda_D=0,035$ W/m K** according to EN 12667 and EN 12939, water vapour diffusion resistance factor $\mu=1$ according to EN 12086, specific heat capacity $c_p=1,03$ kJ / kg K according to EN 10456

Bonding/fixing

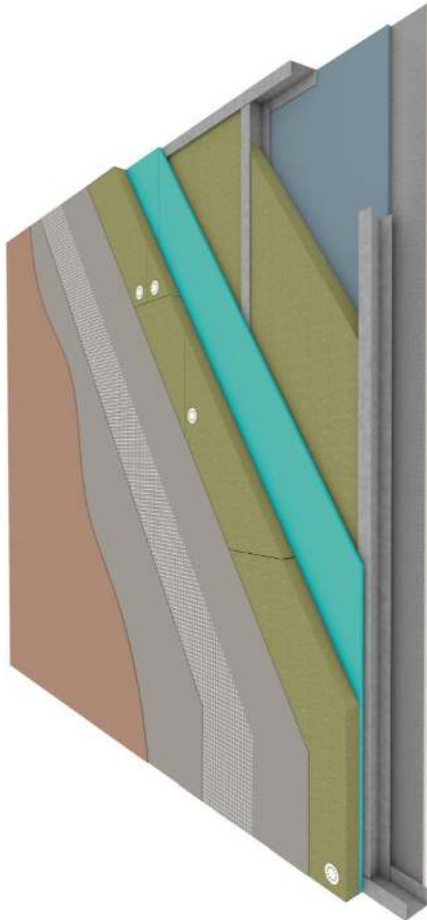
Stick on FIBRANGyps NEXT with a special etics plaster like FIBRANGyps NEXT COAT to apply over the entire surface of the panel. Additionally to the fixing by means of an adhesive, fix mechanically to wall using anchors at a maximum spacing of 300 mm. The type and the length of the anchors as well as the way of fixing are specified in the technical documentation. All these parameters depend on the type of underlay, the thickness of the thermal insulation, the height of the building and the facade load size.

External finishing

The finishing cycle is composed by reinforcing mesh **FIBRANGyps NEXT MESH** 160 g/m², with overlaps of 10 cm, embedded in a first layer of smoother **FIBRANGyps NEXT COAT** - based cement and special additives, which gives the compensated shrinkage, adhesion and tensile strength, posed with a notched trowel; after at least 24 h, application of a second layer of the of **FIBRANGyps NEXT COAT** to obtain a total thickness of not less than 5 mm. After aging for at least 14 days; breathable protective finish with anti-mold-algae for external, fine-grained or coarse, elastic and waterproof. All cycles shaving and finish will still always follow the specifications of each manufacturer

External partition FIBRAN EW 215/100 ETICS mw

Technical features



Thermal Insulation

U = 0,194 W/m²K – calculated with software

Mechanical performance

FIBRANprofiles channels and studs (back to back) DIN 100 mm, max spacing 300 mm, thickness \geq 8/10 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 where structural joints are

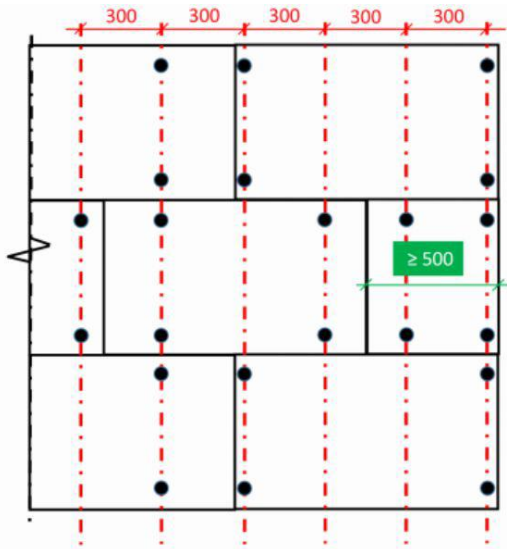
Finishing

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

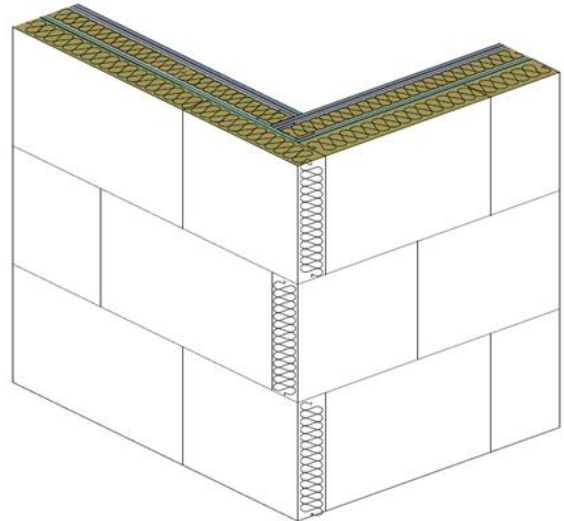
Sustainability

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

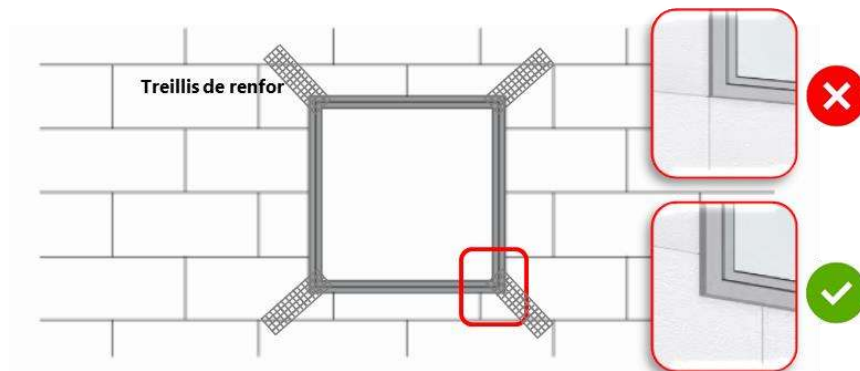
External partition FIBRAN EW 215/100 ETICS mw Construction details



Detail. 1 **POSITIONING OF ANCHORS**



Detail. 2 **CORNER FITTING**



Detail. 3 **PLACING SLABS AROUND THE WINDOWS OPENINGS**

For more information about specification FIBRAN 215/100p ETICS mw, please visit our website www.fibran.it

External partition FIBRAN EW 215/100 ETICS mw

Quantities of material

| Indicative quantities for square meter of partition – 5% waste | | |
|--|----------------|-------------------------|
| | | quantity/m ² |
| Description | UM | |
| FIBRANgyeps NEXT BOARD plasterboard | m ² | 1,05 |
| FIBRANgyeps SUPER plasterboard | m ² | 1,05 |
| FIBRANgyeps V plasterboard | m ² | 1,05 |
| FIBRANprofiles MONTANTE 100 stud | m | 7,5 |
| FIBRANprofiles GUIDE 100 channel | m | 0,7 |
| Joint filler FIBRANgyeps JF | kg | 0,35 |
| Joint filler FIBRANgyeps NEXT COAT | kg | 8,1 |
| FIBRANgyeps TAPE fiber-glass tape | m | 1,7 |
| FIBRANgyeps NEXT SCREW 4,2 x 25 mm | pz | 25 |
| FIBRANgyeps SCREW 25 | pz | 20 |
| FIBRANgyeps SCREW SUPER 38 | pz | 20 |
| FIBRANgyeps SCREW 25 | pz | 25 |
| Reinforcing mesh FIBRANgyeps NEXT MESH | m | 1,1 |
| Stonewool panel FIBRANgeo BP-ETICS | m ² | 1,05 |
| Stonewool panel FIBRANgeo B- 001 | m ² | 1,05 |