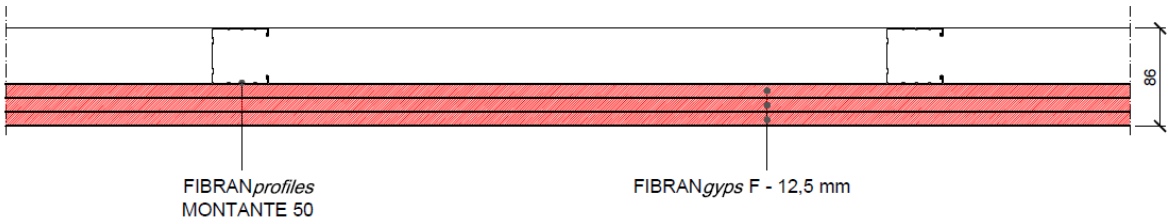
Independent partition **SW-F 86/48**

Fire resistant lining wall EI90, thickness 88 mm



COMPONENTS

Plasterboards

3 layers of **FIBRAN*gyps* 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/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 UNI 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

Screws

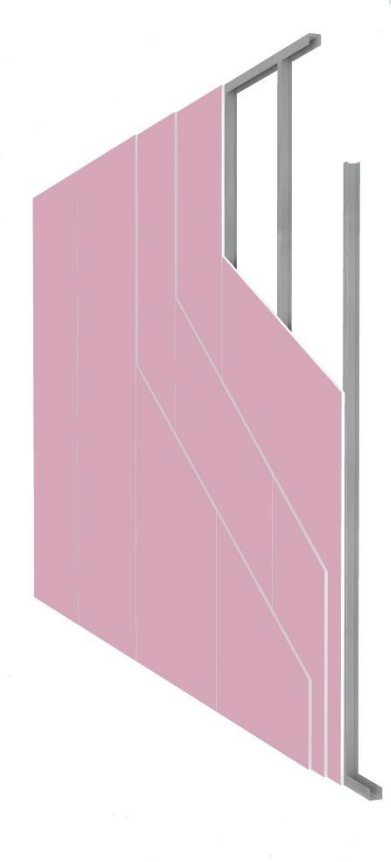
Self-drilling screws **FIBRAN*gyps* SCREW 3,5 x 25 – 45 - 55 mm** with resistance in salt spray test not less than 72 hours, fixed max 200 mm each

Adhesive tape and joint filler

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

Independent partition **SW-F 86/48** Technical features



Fire rating

Fire rating: **EI 90** (Classification Report LAPI 167/C/14-242-FR according to EN 1364-1)
Max height: 4m

Thermal Insulation

U = 3,125 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

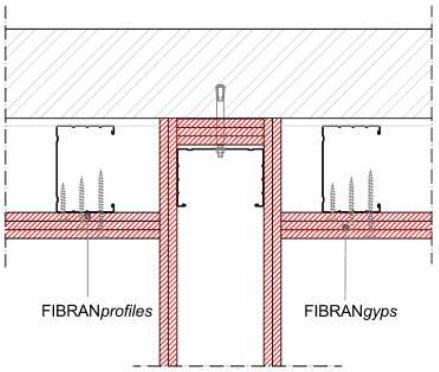
According to quality level required (Eurogypsum). Use FIBRAN*gyps* JF READY MIX for level Q4

Sustainability

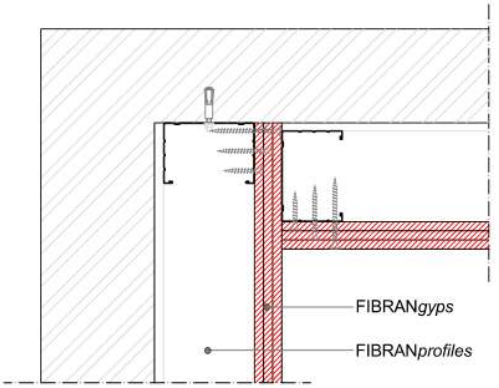
FIBRAN*gyps* plasterboards are classified A+, the best one according to EN ISO 16000-09, with regards to the emission of formaldehyde, acetaldeyde and other substances

Technical Data Sheet

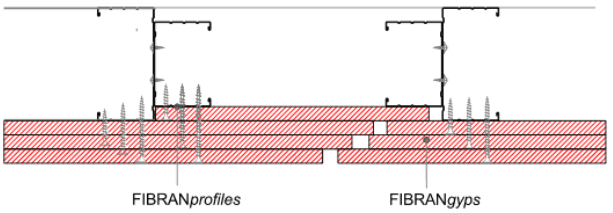
Independent partition **SW-F 86/48** Construction details



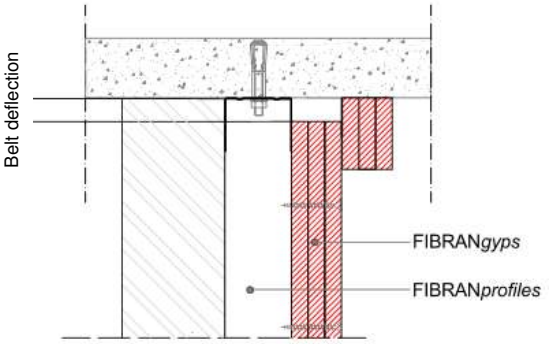
Detail. 1 **FITTING WITH FIRE RESISTANT WALL**



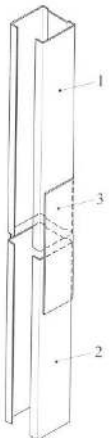
Detail. 2 **CORNER FITTING**



Detail. 3 **EXPANSION JOINT**



Detail. 4 **DESOLIDARIZZATION FLOOR - WALL**



LEGEND
1. stud
2. stud
3. stiffening element made with a channel of the same width as the stud; lenght at least 10 times the width

Detail. 5 **JOINT BETWEEN PROFILES**

Technical Data Sheet

Independent partition **SW-F 86/48**
Quantities of material

Indicative quantities for square meter of partition					
		quantity/m^2		quantity/m^2	
		centre 600 mm		centre 400 mm	
Description	UM				
FIBRAN*gyps*	m^2	3,2	3,2	3,2	3,2
FIBRAN*profiles* studs	m	1,95	3,9	2,3	4,6
FIBRAN*profiles* channels	m	0,7	0,7	0,7	0,7
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* **SCREW** 25mm	pz	13	13	19	19
FIBRAN*gyps* **SCREW** 45mm	pz	29	29	34	34

Technical Data Sheet