

Gypsum based products and systems provide excellent passive fire protection solutions ranging from 1-4 hours taking care of stability, integrity and insulation requirements of the system in equal measure. Gypsum contains approx 21% water content and about 79% calcium sulphate, which is inert below a temp of 120°C. The bound crystalline moisture in gypsum content plays a significant role in excellent fire resistance properties, which makes gypsum a material of limited combustibility.

Gyproc Fire Protection solutions are achieved through a combination of Gyproc Fireline gypsum plasterboard and Gypsteel ULTRA metal framing systems. The Gyproc Fireline plasterboard is made of a pink paper liner wrapped around an inner core made primarily from gypsum plaster. Three key factors influence the performance: the quantity of gypsum, ie, board density; board shrinkage, preventing gaps opening between boards and board pulling away from fixings; and board integrity, preventing boards from falling. The inclusion of glass fibres and shrinkage inhibitors of fire-rated products give a much higher fire protection by limiting the board shrinkage and improving the integrity. Saint-Gobain Gyproc has a range of drywall solutions branded GypWall Fire Resist to provide 1-4 hours fire protection for its walls.

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GypWall Fire Resist

