



A1 Class Noncombustible

corex

Product Data and Submittal Sheet

DESCRIPTION

- **A1 COREX** is a plasterboard used in the cladding of existing walls and partition walls, in the construction of suspended ceilings, shaft walls and ventilation ducts, and to enhance the fire resistance of steel and wooden structural components.
- The core of **A1 COREX** is strengthened with special additives to ensure fire resistance.
- Both sides of **A1 COREX** are coated with a completely non-combustible fibreglass matting.
- The "A1" class specifies non-combustible building materials.
- **A1 COREX** offers ideal fire resistance solutions for public buildings including schools, hospitals, hotels, and commercial and business centres.
- **A1 COREX** is a product that offered the first fire protection system for structural steels with plaster boards in line with ETAG018-4 in Europe, and that is certified with European Technical Approval ETA 18-050.

USAGE

A1 COREX can be used for:

- Non-load-bearing partition walls, by screwing it to both faces of a metal frame.
- Dry-lining, by screwing it to one face of a metal frame or by bonding it to the existing wall.
- Suspended ceilings, by screwing it to the metal frame that has been fastened to the existing floor with a hanger system.

PROPERTIES

- For water and moisture resistance, the core of **A1H1 COREX** is strengthened with water repellent agents and can be subjected to water and moisture for extended periods.
- Easy to handle, both horizontally and vertically. Is resistant to breaking.
- As a dry material, it is easy to clean after application.
- Suitable for all kinds of surface finishes.
- Has dimensional consistency; shrinkage and expansion are negligible. As a breathable material, it creates a healthier environment by stabilizing humidity.
- When used with either sound or insulation materials, delivers an increase in their effectiveness.
- When concrete, steel or wooden components are cladded with **A1 COREX**, their fire resistance is significantly increased.
- Used in the construction of shaft walls and in the cladding of ventilation ducts to prevent toxic gas and smoke emissions during a fire.
- **A1 COREX** applications have higher fire resistance, in minutes*, in comparison to both conventional structural materials and to applications in which other plasterboards have been used.
- Since cross-sectional carrier components designed for **COREX** are relatively small, they improve the building economics right from the start.
- **COREX** can easily be mounted and dismantled, so it is possible to make changes in layouts.
- By using **COREX**, partition walls with narrow cross- sections can be made, thus increasing available floor area.
- Every kind of installation can be made using **COREX** applications. Thus, able to install services (pipework/wiring) easily.

RECOMMENDATIONS

- Use **ADERTEK** bonding plaster for bonding **A1 COREX** to the existing walls.
- Use **DERZTEK** gypsum jointing compound on all **COREX** joints.



Greenguard certification is a certificate that shows the effects of our products on indoor air quality.

A1 Class Noncombustible

coreX



LIMITATIONS

- **A1 COREX** plasterboard is for internal applications only.
- **A1 COREX** plasterboard is nonstructural product and should never be used as a nailing base or to support heavy wall mounted objects. It is not for load-bearing design.
- **A1 COREX** plasterboard is unsuitable for use in areas subject to continuously damp or humid conditions. The designers should take care to eliminate all possibility of problems caused by humidity and condensation.
- **A1 COREX** plasterboard must not be installed where the temperature may exceed 52°C, for an excessive amount of time and must be installed while the ambient temperature at the time of installation is between 4°C and 35°C.
- Boards should be stacked flat. Gypsum board must be stored in dry areas
- Handle with care to prevent sagging and/or damaging the surfaces, edges and ends.
- Gypsum board must be stored under protective cover and off the ground.
- Sufficient risers must be used to assure support for the entire length of the gypsum board to prevent sagging.

STORAGE and HANDLING

STANDARD

Standard	EN 15283-1	Gypsum Boards with Mat Reinforcement
Type	GM-FR / GM-FH1R *	

TECHNICAL SPECIFICATION

	General Type	All Types			
Length	2500 mm	2000 - 2500 mm			
Width	1200 mm	1200 mm			
Thickness	12,5 mm	12,5 mm	15 mm	20 mm	25 mm
Average weight	~11,5 kg/m ²	~11,5 kg/m ²	~13,5 kg/m ²	~17,6 kg/m ²	~21,9 kg/m ²
Flexural strength (Perpendicular)	≥ 725 N	≥ 725 N	≥ 870 N	≥ 1160 N	≥ 1450 N
Flexural strength (Parallel)	≥ 300 N	≥ 300 N	≥ 360 N	≥ 480 N	≥ 600 N
Edge type		IK (Tapered Edge) - KK (Square Edge)			
Thermal conductivity(λ)		0,25 W/mK			
Reaction to fire		A1: Noncombustible building material (acc. TS EN 13501-1)			

PACKAGING

	General Type	All Types			
Thickness	12,5 mm	12,5 mm	15 mm	20 mm	25 mm
Number of boards in pallet	50 pcs/pallet	50 pcs/pallet	40 pcs/pallet	18 pcs/pallet	18 pcs/pallet

* Since fire resistance, in minutes, is specific to building components (building systems), it is not possible to discuss the fire resistance of plasterboard separately, as it is one of many structural components.

*Water absorption based on weight of plasterboards with reduced water absorption rate according to TS EN 520 +A1 is maximum 5% for H1 class after 2 hours.