

Titan Board Type DFH1R

Titan Board is a revolutionary plasterboard designed for use in premium quality interior dry construction systems such as partition walls, shaft walls, wall linings and suspended ceilings.


It complies with the highest requirements for fire, sound and moisture resistance while being extremely resistant to mechanical impact, scratches, dents and heavy loads.


Titan Board is perfect for homes, offices, schools, hospitals and other small, medium and large construction projects that want to implement sustainable construction methods and strive for a healthy, safe and comfortable living and working environment.





TITAN BOARD


Properties:


- 


High density of gypsum core for better sound insulation and stability **Type D**. Effective protection against airborne and impact sound for acoustic comfort in all premises.
- 


Increased load capacity ensures stability of standard drywall nail plugs when hanging objects.
- 


Increased resistance to high temperatures **Type F**. Non-combustible class plane class - A2, s1-d0.
- 

Element of system solutions Technogips Pro
- 

Highest class of moisture resistance **Type H1**. Suitable for areas with high humidity, providing additional protection against the growth and spread of mold and mildew.
- 

Ideal for interior application in areas with high humidity up to 90% for short periods of time and assured ventilation.
- 

Impact and scratch resistance **Type I**. Increased resistance to impact from hard objects such as furniture, shopping carts, etc. Resistance to scratches and surface damage from small objects such as bags, balls, etc.
- 

Provide healthy environment that controls moisture.
- 

Exceptional strength and durability **type R**. Over 30% higher strength than the standard plasterboard, allowing construction of high walls without the need to change the standard metal frame.

Standard Clasification and Certificates:

CE type: **A, D, F, H1, I** and **R**
EN 520:2004 + A1:2009

 EPD Verified

 **FSC**
The mark of responsible forestry
FSC® C138031

Titan Board type DFH1IR

Application:

The innovative Titan Board DFH1IR is a vital component in each of Technogips Pro high-performance system solutions for the construction of lightweight partition walls, shaft walls, wall claddings and suspended ceilings. Technogips Pro system solutions provide a healthy, safe and comfortable living and working environment and are widely used in:

Residential Buildings

Bedrooms
Kitchens
Living Rooms
Entrances and hallways
Staircases
Batchroom and Closets
Garage Spaces

Public Buildings

Shopping Centers
Offices and Hotels
Sport Halls
Hospitals
Cultural Buildings
Industrial Halls
Educational Buildings

Technical Data

Class of Reaction to Fire	A2-s1,d0
Controlled Density	> 1000 kg/ m ³ , type D
Core Cohesion of High Temperatures	> 15 min, type F
Total Water Absorption	< 5 %, type H1
Surface Water Absorption	< 180 g/m ² , type H1
Flexural Strength, longitudinal direction	> 725 N
Flexural Strength, transversal direction	> 300 N
Thermal Conductivity, λ	0.25 W/(m.K)
Water Vapor Resistance Factor, μ	10

Thickness	12.5 mm
Width	1200 (1250) mm
Length	2000 - 3000 mm
Edge Type	Tapered (TE/AK)
Board Weight	13 kg/m ²
Board Color, face	Purple
Board Color, back	Purple

Storage and Packaging

- ✓ Store the pallets indoors to protect them from rain, sun and other adverse weather conditions.
- ✓ It is allowed to place a maximum 6 pallets one over the other for storage purposes.
- ✓ Product quality is guaranteed only when the product is stored and used correctly.

Board Dimensions	Boards per Pallet
12.5x1200x2000-3000 mm	40 pcs (96 m ²)
12.5x1250x2000 mm	24 pcs (60 m ²)

Safety Recommendations

✓ Titan Board type DFH1IR is not classified as dangerous.

✓ The use of safety gloves, mask and googles is strongly advisable when working with this product, in prevention from physical harm and dust particle inhalation.

Titan Board Type DFH1IR

Installation Guidelines

General Information

The Titan Board plasterboard must be transported vertically upright along the length of the factory edge. Until the installation, Titan Board must be stored on a flat surface and protected from moisture and other weather conditions. In case any humidification occurs before the installation process, complete drying of the board must be ensured. The boards are cut in the desired shape and size with a standard utility knife, without the need for an electric circular saw.

*Before skim coating, the surface must be cleaned of dust and primed. The primer must be compatible with the plasterboard.

Cladding

Fixing the Titan Board plasterboard to the metal frame of Premium profiles is done using the Titan Screw TN. The Titan screws must be fixed at least 10 mm from the board's edges. A 10 mm gap must be left between the floor and the board. The vertical and horizontal joints on one side of the partition must not fall in the same place as the opposite side. Cross joints are not permitted. The screw head should go 1 mm below the surface of the board, and the other end of the screw should enter at least 10 mm into the hollow space of

Joint Treatment and Finishing Coats

The method for joint filling depends on the purpose for the application of Titan Board:

In areas with normal humidity (< 60 %), the joints between Titan Board plasterboards must be filled with FUGA gypsum joint filler or FUGA & FINISH Light ready-to-use compound. It is recommended to use Paper, Glass-fibre or Self-adhesive joint tape for reinforcing the joints.

In rooms with high humidity (60 - 90%), the joints between Titan Board plasterboards must be filled with FUGA Hydro moisture-resistant joint filler and reinforced with Glass-fibre joint tape.

For optimal quality, the entire surface can be coated with SATEN gypsum skimcoat or FUGA & FINISH Light ready-to-use compound to achieve surface levels Q3 and Q4.

* The level of joint and surface completion is determined according to the requirements of the project and in relation to the levels of surface finishing Q1, Q2, Q3 and Q4.

Additional Information

Technogips Pro provides a wide range of construction products for various applications divided into the following product categories:

- ✓ Dry Construction System Solutions;
- ✓ Lightweight Façade Systems;
- ✓ Professional Systems for Fire Protection and Sound Insulation;
- ✓ Gypsum-based plasters and finishes;

Technogips Pro also provides various technical information such as CAD details, detailed method statements, specification clauses, application manuals and technical support both in contractors and consultants offices as well as construction sites. For further information on these products and systems kindly check our website or contact your local Technogips Pro representative.