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DragonBoard™ Structural Subfloor Panel

3/4″ nominal (18mm) · Steel or wood framing, 16″ o.c. or shorter spans

DragonBoard™ Structural Subfloor is a lighter weight magnesium oxide (MgO) panel designed for 16″ o.c. or shorter spans where weight is a critical issue. It is an alternative to traditional gypcrete-topped OSB and plywood subfloor systems, or metal deck and concrete floor systems, in multifamily and other low-rise commercial construction. The panels provide a durable, termite-, mold-, and moisture-resistant system for 1- and 2-hour fire-rated floor assemblies suitable for both wood and steel framing applications. DragonBoard™ panels are manufactured to deliver dimensional stability and long-term performance throughout construction and the life of the building.

PRODUCT SPECIFICATIONS

Thickness	3/4″ nominal (18mm)
Panel Width	48″ (4′) Square Edge
Panel Length	96″ (8′) Shiplap Edge
Panels Per Pallet	22
Weight	4.0 lbs. per sq. ft.
Weight Per Panel	Approx. 130 lbs.
Pallet Weight	2,900 lbs.

BOARD CAPACITY (PSF)

Spacing o.c.	Max Deflection L/240	Max Deflection L/360
16″	393	257

Table Notes:

- Values are based on testing performed by NTA, with a flexural board strength of 1,901 PSI and modulus of elasticity of 916.56 KSI.
- Ultimate capacity; not reduced by safety factors.
- Testing for strength and stiffness based on ASTM C1185, Section 5.
- Values are the lesser of strength capacity or board stiffness that results in the target maximum deflection.



Structural Subfloor 3/4″ nominal (18mm)

APPLICATIONS, PERFORMANCE & INSTALLATION

Typical Applications

- Multifamily construction
- Hotels and hospitality
- Healthcare facilities
- Senior living facilities
- Mixed-use developments
- Modular and offsite construction

Performance Features

- 1- and 2-hour fire-rated assemblies
- Moisture resistant
- Mold resistant
- Termite resistant
- High dimensional stability
- High surface durability

Product Installation

- Installs directly to steel or wood framing
- Installs without the need for any specialized tools

DragonBoard™ Codes & Standards

- International Building Code (IBC): 2006 – 2024
- Fire Testing Per ASTM E84, E136, E119
- UL Fire Rated Assemblies:
  - UL G575 (1- and 2-Hour Fire-Resistance Steel Assembly)
  - UL L583 (1-Hour Fire-Rated Wood Assembly)
- Diaphragm: ASTM E455
- Sound: ASTM E90, E492
- Mold Resistance: ASTM G21
- Extreme Termite Resistance: AWPA E1-13
- Moisture Resistance: ASTM C1185
- Flexural Strength / Modulus of Rupture: ASTM C1185
- Does not contain Asbestos, Formaldehyde, or VOCs

Environmental Stewardship

DragonBoard™ USA supports the programs of the United States Green Building Council (USGBC). Contact our team for fire-rated assembly details, product specifications and technical support.

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