



PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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DragonBoard™ Structural Subfloor Panel (3/4" nominal)

DragonBoard™ Structural Subfloor is a lighter weight magnesium oxide (MgO) panel designed for 16"OC 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 in. nominal (18mm)
Panel Width	48 in. (4') Square Edge
Panel Length	96 in. (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	Max Deflection	
o.c.	L/240	L/360
16"	393	257

Table Notes:

- Values are based on testing performed NTA, with a flexural board strength of 1901 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.

Typical Applications:

- Commercial Construction
- Multifamily Construction
- Hotels and Hospitality
- Healthcare Facilities
- Senior Living Facilities
- Mixed Use Developments
- Modular and Offsite Construction

Performance Features:

- 1 and 2-Hour Fire Rating
- 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: ADWPA E-1-13
- Moisture Resistance: ASTM C1185
- Flexural Strength/Modulus of Rupture ASTM C1185
- Does not contain Asbestos, Formaldehyde, or VOC's

***Environmental Stewardship: DragonBoard™ USA supports the programs of the United States Green Building Council (USGCB).**