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DragonBoard™ MAG X-24 Structural Subfloor Panel

3/4″ nominal (18mm) · Extended-span subfloor, steel or wood framing up to 24″ o.c.

DragonBoard™ MAG X-24 is a high-performance structural subfloor panel developed for wide-span and premium flooring applications. It is designed as an alternative to traditional gypcrete-topped OSB and plywood subfloor systems, as well as metal deck and concrete floor systems, in multifamily and other low-rise commercial construction. MAG X-24 provides a durable, termite-, mold-, and moisture-resistant solution for fire-rated floor assemblies while delivering excellent dimensional stability and reliable long-term performance throughout construction and over 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	4.53 lbs. per sq. ft.
Weight Per Panel	Approx. 145 lbs.
Pallet Weight	3,190 lbs.

BOARD CAPACITY (PSF)

Spacing o.c.	L/360 Dry	L/360 Wet	Strength Limit 3.0x SF (Dry / Wet)
16″	497	366	643 / 521
19.2″	287	212	446 / 362
24″	147	108	286 / 231

Table Notes:
- Preliminary engineering values based on Intertek Report No. 250218008SHF-002 and ASTM C1185-23, Section 5.
- Dry MOR/MOE: 5,120 psi / 1,183 ksi. Wet MOR/MOE: 4,148 psi / 871 ksi.
- L/360 values are for three-span continuous panels. Strength-limit values are reduced by a 3.0 safety factor (MOR/3); deflection governs in every case.



MAG X-24 3/4″ nominal (18mm)

APPLICATIONS, PERFORMANCE & INSTALLATION

Typical Applications
- Multifamily construction
- Modular and offsite construction
- Hotels and hospitality
- Senior living facilities
- Student housing and dormitories
- Healthcare facilities

Performance Features
- 1- and 2-hour fire-rated assemblies
- Moisture resistant
- Mold resistant
- Termite resistant
- High dimensional stability
- Highest flexural strength and surface durability

Product Installation
- Installs over wood or steel trusses and joists
- Installs without the need for 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 G556 (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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