



# PRODUCT SUBMITTAL SHEET

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## DragonBoard™ MAG X-24 Structural Subfloor Panel (3/4" nominal)

**DragonBoard™ MAG X-24 Structural Subfloor Panels** are high-performance magnesium oxide (MgO) products developed for wide-span structural subfloor applications and premium floors. They are 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 in. nominal (18mm)          |
| Panel Width            | 48 in. (4')                     |
| Panel Length           | 96 in. (8')                     |
| Panel Edge             | SE (Square Edge) on all 4 sides |
| 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<br>o.c.      | L/360 Dry | L/360 Wet | Strength Limit<br>3.0x Safety Factor<br>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.

### 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 directly over plywood, OSB, and MgO subflooring
- 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 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).**