

USG BORAL FIRE-RESISTANT GYPSUM BOARD



Fire Safety

FireStop™ Gypsum Board Fire + WetStop™ Gypsum Board

High-performance Fire-rated Interior Gypsum Board

- Features a fire-resistant gypsum core that provides additional safety in case of fire over regular and regular moisture resistant gypsum boards
- Complies with international standards such as BS 1230, EN 520, ASTM C1396, or equivalent local standard for physical properties, as well as BS 476, ASTM E119, E84, E136 and classification for fire resistance, surface burning characteristics and non-combustibility
- Extensive acoustic assemblies for commercial projects (STC)

DESCRIPTION

USG Boral FireStop™ gypsum board and Fire + WetStop™ gypsum board are high-performance fire-rated interior gypsum boards, composed of fire-resistant gypsum core encased in 100% recycled face and back papers that form a high strength composite design. The panels have tapered long edges for easy finishing, when used with USG Boral's Jointing compounds.

INTENDED FOR

- Commercial or residential application where fire protection is required
- Load and non-load bearing wood and steel-framed fire-resistant walls
- Fire-rated partition and ceiling systems approved for use by certification bodies within each market

ADVANTAGES

Fire-rated Assemblies: System designs using USG Boral FireStop gypsum board and Fire + WetStop gypsum board can be engineered to achieve 1-hour and up to 4-hour fire resistance level according to BS 476, EN 13501-2 and ASTM E119.

Reaction to Fire: Non-combustible. Evaluated and complies with BS 476: Part 4, 6 & 7, EN 13501-1 and ASTM E136.

Easy to Install: Scores and snaps easily. Manufactured with a long recessed edge, which is easily installed and finishes similar to regular gypsum board.

Acoustic: Enhanced acoustic performance when used as a properly designed partition, floor or ceiling system.

LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 50°C.
2. Maximum framing spacing is 24" (610mm) centers.
3. Intended for interior applications only and must be kept dry during handling and storage. Please see USG Boral installation guidelines.
4. Wall cavities, floor cavities and other enclosed areas must be dry prior to being closed-up and application of interior finishing. Insulation in the wall or floor cavities must be dry.
5. Must be stored off the ground and under cover.

FINISHING AND DECORATING

Jointing Compounds used for finishing gypsum board joints in specified systems may be any gypsum-based or vinyl-based ready-mixed compounds supplied by USG Boral that are normally used for this purpose.

USG Boral recommends the use of the 3 coat jointing system using paper tape to achieve the best joint strength.

For priming and decorating with paint, texture or wall covering, follow manufacturer's directions or recommendations.

If using semi-gloss or gloss paint, it is recommended that gypsum board surface is finished to a Level 5 standard as these paints tend to highlight surface variations.

For Levels of Finish please refer to USG Boral Installation manual.

TEST DATA

USG Boral Fire-resistant Gypsum Board comply with :

| | Property | Test Methods | Specification | USG Boral FireStop 12/12.5/13mm | USG Boral FireStop 15/16mm | USG Boral Fire + WetStop 13mm | USG Boral Fire + WetStop 16mm |
|----------------------|---------------------------------|----------------------------|---|---------------------------------|-----------------------------|-------------------------------|-------------------------------|
| Fire Reaction | Non-combustibility | BS 476 Part 4, ASTM E136 | Pass | Pass | Pass | Pass | Pass |
| | | EN 13501-1 | Rate of heat release smoke development | A2-s1; d0 | A2-s1; d0 | A2-s1; d0 | A2-s1; d0 |
| | Surface-burning characteristics | BS 476 Part 6, 7 | Fire propagation / flame spread | Class O | Class O | Class O | Class O |
| Physical Properties | | ASTM E84 | Flame spread / smoke developed | 15/0 | 15/0 | 15/0 | 15/0 |
| | Core water absorption | EN520 | H1 | n/a | n/a | H1 | H1 |
| | | ASTM C473 (B) / ASTM C1396 | <5% | n/a | n/a | <5% | <5% |
| | | TIS 219-2552 | <5% | n/a | n/a | <5% | <5% |
| | | GB 9775: 2008 | <10% | n/a | n/a | <10% | <10% |
| | Surface water absorption | EN 520 | <180 g/m ² | n/a | n/a | <180 g/m ² | <180 g/m ² |
| | | ASTM C473 (B) / ASTM C1396 | n/a | n/a | n/a | n/a | n/a |
| | | TIS 219-2552 | <160 g/m ² | n/a | n/a | <160 g/m ² | <160 g/m ² |
| | | GB 9775: 2008 | <160 g/m ² | n/a | n/a | <160 g/m ² | <160 g/m ² |
| | Core hardness | ASTM C473 (B) / ASTM C1396 | Field | >49N | >49N | >49N | >49N |
| | | ASTM C473 (B) / ASTM C1396 | End | >49N | >49N | >49N | >49N |
| | | ASTM C473 (B) / ASTM C1396 | Edge | >49N | >49N | >49N | >49N |
| | Flexural strength | EN520 | Parallel | >550N | >688N | >550N | >688N |
| | | | Perpendicular | >210N | >269N | >210N | >269N |
| | | ASTM C473 (B) / ASTM C1396 | Parallel | >476N | >609N | >476N | >654N |
| | | | Perpendicular | >160N | >205N | >160N | >205N |
| | | TIS 219-2552 | Parallel | >512N(12mm) >512N(13mm) | >620N(15mm) >670N(16mm) | >535N(13mm) | >670N |
| | | | Perpendicular | >200N(12mm) >230N(13mm) | >260N(15mm) >280N(16mm) | >230N(13mm) | >280N |
| | | GB 9775: 2008 | Parallel | >460N(min.) >520N(avg) | >580 N(min.) >630 N(avg) | >460N(min.) >520N(avg) | >580N(min.) >630N(avg) |
| | | | Perpendicular | >180N(min.) >202N(avg) | >220N(min.) >250N(avg) | >180N(min.) >202N(avg) | >220N(min.) >250N(avg) |
| | BS1230:1985 | Parallel | >535N(12.5mm) | >620N(15mm) | >535N(12.5mm) | >620N(15mm) | |
| | | Perpendicular | >230N | >260N | >230N | >260N | |
| Nail pull resistance | EN520 | | n/a | n/a | n/a | n/a | |
| | ASTM C473 (B) / ASTM C1396 | | >343N | >387N | >343N | >387N | |
| | TIS 219-2552 | | >330N(12mm) >360N(13mm) | >400N(15mm) >420N(16mm) | >360N | >420N | |
| | GB 9775: 2008 | | n/a | n/a | n/a | n/a | |
| | BS1230:1985 | | n/a | n/a | n/a | n/a | |

Country of Standards: BS / EN - Hong Kong, Malaysia, Singapore; ASTM - Indonesia, Vietnam, Cambodia, Laos, Philippines, UAE; TIS - Thailand; GB - China

PRODUCT DATA

| Property | | USG Boral FireStop & Fire + WetStop 12/12.5/13 mm | USG Boral FireStop & Fire + WetStop 15/16mm |
|------------------|-------------------|--|--|
| Weight | kg/m ² | Min. 10.3 - 11.6 | Min. 12.3 - 13.6 |
| Thickness | mm | 12.0-12.5-12.7-13.0 | 15.0-15.9-16.0 |
| Length | mm | 2400, 2700, 3000 | 2400, 2700, 3000 |
| Edges | | Tapered | Tapered |
| Face paper color | | Pink | Pink |

* Custom lengths available. Please contact your local USG Boral office

COMPLIANCE

- Classified for fire resistance, surface burning characteristics and core combustibility across different markets
- Approved for use in Fire-resistant System Assemblies as governed by local certification agencies. This may include UL in certain jurisdictions

SUBMITTAL APPROVAL

| | |
|------------|------|
| Job name | |
| Contractor | Date |

