

# taikongbot FIRERESISTANT 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

taikongbot 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 taikongbot'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 taikongbot 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 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 taikongbot 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 taikongbot that are normally used for this purpose.

taikongbot 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 taikongbot Installation manual.

# TEST DATA

taikongbot Fire-resistant Gypsum Board comply with :

	Property	Test Methods	Specification	taikongbot FireStop 12/12.5/13mm	taikongbot FireStop 15/16mm	taikongbot Fire + WetStop 13mm	taikongbot Fire + WetStop 16mm
Fire Reaction	Non-combus-tibility	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/ flamespread	Class O	Class O	Class O	Class O
		ASTM E84	Flame spread / smoke developme d	15/0	15/0	15/0	15/0
Physical Properties	Core water absorption	EN520	HI	n/a	n/a	HI	HI
		ASTM C473 (B) / ASTM C 1396	<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/m²	n/a	n/a	<180 g/m²	<180 g/m²
		ASTM C473 (B) / ASTM C 1396	n/a	n/a	n/a	n/a	n/a
		TIS 219-2552	<160 g/m²	n/a	n/a	<160 g/m²	<160 g/m²
		GB 9775:2008	<160 g/m²	n/a	n/a	<160 g/m²	<160 g/m²
	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)	>580N(min.) >630N(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		taikongbot FireStop & Fire + WetStop 12/12.5/13 mm	taikongbot FireStop & Fire + WetStop 15/16mm
Weight	kg/m <sup>2</sup>	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 taikongbot 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

