

SPECIFICATIONS

CHEMICAL RESISTANT HEAVY DUTY FLOOR BRICK

All Belden Industrial Floor Brick/Paving Tile are manufactured to conform to or exceed ASTM C-279, Type II or ASTM C-410, Type H. Minimum requirements regarding ASTM C-279 and C-410 specification standards are shown in the following table:

SPECIFICATION STANDARD	ASTM C-279			ASTM C-410			METHOD OF TEST
	TYPE I	TYPE II	TYPE III	TYPE H	TYPE M	TYPE L	
Modulus of Rupture Minimum p.s.i.	1250 (8.6 MPa)	1250 (8.6 MPa)	1250 (8.6 MPa)	1000 (6.9 MPa)	2000 (13.8 MPa)	2000 (13.8 MPa)	ASTM Designation C67
Water Absorption Maximum % by 2 hr. Boiling Test	6.0-7.0%	4.0-5.0%	1.0-1.5%	n/a	n/a	n/a	ASTM Designation C20
Water Absorption Maximum % by 5 hr. Boiling Test	n/a	n/a	n/a	6.0-7.0%	2.0-2.5%	1.0-1.5%	ASTM Designation C20
H ₂ SO ₄ Solubility Maximum % Weight Loss	20	12	8	20	n/a	8	ASTM Designation C20
Size Variances	±3%	±3%	±3%	3/16" (4.8mm)	3/16" (4.8mm)	3/16" (4.8mm)	ASTM Designation C67
Tolerances on Warpage 8" and under	3/32" (2.4mm)	3/32" (2.4mm)	3/32" (2.4mm)	1/16" (1.6mm)	1/16" (1.6mm)	1/16" (1.6mm)	ASTM Designation C67

PHYSICAL PROPERTIES AND COMPARISON TABLE – SMOOTH, ABRASIVE & VERTICAL FIBRE FINISH FLOOR BRICK/PAVING TILE

Technical Data	Belden - Vertical Fibre Finish	Belden - Smooth or Abrasive Finish	ASTM C279 Type II	ASTM C279 Type III	ASTM C410 Type H	ASTM C410 Type M	ASTM C410 Type L	Fed Spec SST-308B Class C
Maximum Permissible Variations in Dimensions (Largest to Smallest)	1/16" (1.6 mm)	1/16" (1.6 mm)	3%±	3%±	3/16" (4.8 mm)	3/16" (4.8 mm)	3/16" (4.8 mm)	None
Maximum Permissible Deviation of Face Distortion (in.)	1/32" (0.8 mm)	1/32" (0.8 mm)	3/32" (2.4 mm)	3/32" (2.4 mm)	1/16" (1.6 mm)	1/16" (1.6 mm)	1/16" (1.6 mm)	9/64" (3.6 mm)
Compression p.s.i. ¹	18,860 (129.8 MPa)	40,610 (279.4 MPa)	None	None	None	None	None	None
Modulus of Rupture p.s.i.	2570 (17.7 MPa)	2400 (16.6 MPa)	1250 (8.6 MPa)	1250 (8.6 MPa)	1,000 (6.9 MPa)	2000 (13.8 MPa)	2000 (13.8 MPa)	None
Coefficient of Expansion in $\Delta in./\Delta F \times 10^6$	2.4-3.0	2.4-3.0	None	None	None	None	None	None
Tensile Strength, p.s.i. ²	3195-3390	3195-3390	None	None	None	None	None	None
Modulus of Elasticity p.s.i. ³	$6.98-7.97 \times 10^6$	$6.98-7.97 \times 10^6$	None	None	None	None	None	None
Absorption - 2 Hr. Bol	2.2-3.9%	2.0-2.4%	4.0 Max.	1.0 Max.	None	None	None	5.0 Max.
Absorption - 5 Hr. Bol	NA	2.5-2.7%	None	None	6.0 Max.	2.0 Max.	1.0 Max.	None
Acid Solubility (% of Loss) H ₂ SO ₄ - 48 Hr. Bol	2.2	4.3	12.0 Max.	8.0 Max.	20.0 Max.	None	8.0 Max.	None

NOTES:

1. Applicable Testing Specification Procedure - ASTM C67 2. Applicable Testing Specification Procedure - ASTM C885 3. Applicable Testing Specification Procedure - ASTM C1006

PLEASE NOTE:

The information given in this reference table should be used as a guide only. No guarantee is made nor can we assume any liability in connection with the use of this information. Please contact The Belden Brick Company for specific recommendations.