

## BASF Wall Systems | PermaLath® Test Results

TECHNICAL BULLETIN 1032732

PermaLath	
Test	Result
<b>Fire Tests:</b> <b>ASTM C338</b> Softening point of glass	>797°C (>1466°F)
<b>ASTM E84</b> Surface burning characteristics <i>Assembly description:</i> Permalath with 3/8" StuccoBase and textured acrylic finish	Flame spread: <25 Smoke developed: <450
<b>ASTM E119</b> Fire tests of building and construction materials <i>Assembly description:</i> 5/8" Type X interior wallboard, R-11 kraft paper faced fiberglass batt 2"x4" wood studs, 24" oc, 7/16" OSB, 2 layers of Tyvek StuccoWrap, PermaLath, 3/8" StuccoBase Premix (load bearing: 1100 lbs per stud)	Achieved fire resistance rating of 1 hour from the interior side
<b>Physical Tests:</b> <b>ASTM E330</b> Transverse wind load <i>Assembly descriptions:</i> 3 5/8" steel stud framing, 16" oc, 1/2" GP Dens Glass Gold, Tyvek StuccoWrap, PermaLath, 3/8" StuccoBase Premix, textured acrylic finish	Average ultimate loads -2970 Pa (-62.05 psf) Studs failed +3360 Pa (+70.2 psf) Not taken to failure
2"x4" wood stud framing, 16" oc, 7/16" OSB, Tyvek StuccoWrap, PermaLath, 3/8" StuccoBase Premix, textured acrylic finish	Average ultimate loads -7760 Pa (-162.07 psf) Studs failed +3360 Pa (+70.2 psf) Not taken to failure
<b>ASTM E2098</b> Tensile breaking strength of glass fiber reinforcing mesh after exposure to sodium hydroxide solution (alkalinity resistance)	Minimum required: 120 pli Warp direction: 169.06 pli Weft direction: 182.79 pli

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<b>Physical Tests (continued):</b> <b>AC 275 Section 3.4</b> Fastener Attachment	Pass (>85 lbs)
<b>AC 275 Section 3.2.3</b> Attachment	Pass (>12 lbs cementitious exterior wall coatings)
	Pass (>18 lbs stucco)
<b>AC 275 Section 3.3</b> Embedment	Pass (min. 1/8": embedment)

**Note**

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