



The Chemical Company

BASF Wall Systems | PermaLath® 1000 Test Results

TECHNICAL BULLETIN

PermaLath 1000	
Test	Result
Fire Tests: ASTM C338 Softening	Pass(>750°F)
ASTM E84 Surface burning characteristics	Flame spread: <25 Smoke developed: <450
ASTM E119 Fire Resistive Rating <i>Assembly Descriptions:</i> 3/4" ASTM C926 stucco with PermaLath 1000 over steel framing, 5/8" Type X on both sides 1/2" StuccoBase with PermaLath 1000 over steel framing, 5/8" Type X on both sides	1 hour
3/4" ASTM C926 stucco with PermaLath 1000 over 2 x 4 framing, 5/8" Type X on inside, 7/16" OSB on outside	1 hour (from inside only)
ASTM E136 Non Combustibility	Pass
Physical Tests: ASTM E2098 Tensile Strength	Pass
ASTM E330 Transverse wind load <i>Assembly descriptions:</i> 2x4 SPF wood studs 16" oc, 2 layers water resistive barrier, PermaLath 1000 fastened 6" oc with 1" crown x 1-1/4" long staples 6" oc vertically to studs x 16" oc horizontally, 3/4" stucco.	Average ultimate pressures: Negative: 124 PSF Positive: 163 PSF (tested w/ 7/16" OSB)
3-5/8" x 1-5/8" 20 ga steel studs 16" oc, 1 layer water resistive barrier, PermaLath 1000 fastened 6" oc vertically to studs x 16" oc horizontally with No 6, 1-1/4" bugle head screws and galvanized Lath Plates, 3/4" stucco.	Average ultimate pressures: Negative: 63 PSF Positive: 153 PSF (tested with 1/2" ext gyp sheathing)

PermaLath 1000	
Test	Result
Physical Tests (continued):	
ASTM E 330 Transverse wind load (For use with EIFS)	Negative: 300 PSF
ASTM E 72 Racking	
<i>Assembly descriptions:</i> 2x4 SPF wood studs 16" oc, 1/2" ASTM C 79/C 1396 gypsum sheathing nailed (11 gauge, 1-3/4" long) to studs @ 8" oc field & perimeter, 1 layer weather barrier, PermaLath 1000 fastened with 1" crown x 1-1/4" long staples 6" oc vertically to studs x 16" oc horizontally, 3/4" stucco.	>180 plf
1/2" ASTM C 36 Gypsum wallboard (interior) fastened (6d nails) to studs 8" oc vertically, 2x4 SPF studs spaced 16" oc, 7/16" OSB nailed (8d common) to studs @ 12" oc field, 6" oc perimeter, 2 layers weather barrier, PermaLath 1000 fastened with 1" crown x 1-1/4" long staples 6" oc vertically to studs x 16" oc horizontally, 3/4" stucco.	>180 plf
AC 275 Section 3.4 Fastener Attachment	Pass (>85 lbs)
AC 275 Section 3.2.3 Attachment	Pass (>12 lbs cementitious exterior wall coatings) Pass (>18 lbs stucco) Pass (>48 lbs stone veneer)
AC 275 Section 3.3 Embedment	Pass (min. 1/4": embedment)
Tensile/Yield Strength	>300 lbs/inch in both directions

Note

BASF Wall Systems is an operating unit of BASF Construction Chemicals, LLC. (herein after referred to as "BASF Wall Systems")

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