Senergy®

BUILDING TRUST

TECHNICAL BULLETIN

Senturion System Methods of Attachment

SENTURION™ OPTION 1	
Fire Test Results: **UBC Standard 26-9 (Formerly 17-6)/NFPA 285 Intermediate Scale Fire Test** Successfully meets all of the test criteria.	
NFPA 268/ Radiant Heat Exposure Satisfies conditions of acceptance. No ignition upon 20 minute radiant heat exposure at 1.25 W/cm^2.	
Physical Test Results: **ASTM E331 Modified**—drainage performance and drying potential of Class PB EIFS Pass	
ASTM E330—wind-load Assembly components: steel stud framing—(18 gauge), 406 mm (16") o.c.; sheathing—11.7 mm (15/32") exterior grade exposure 1 plywood; housewrap; expanded polystyrene insulation board; mechanical fasteners; Senergy Base Coat/ Flexguard 4 Reinforcing Mesh; and Senergy Finish Coat.	
Assembly Specifics:	Average Ultimate Loads:
EPS thickness—25 mm (1") See Figure 1	- 4166 Pa (- 87 psf) + 3016 Pa(+ 63 psf)(no failure)
EPS thickness—38 mm (1.5") See Figure 1	- 6224 Pa (- 130psf) + 3926 Pa(+ 82 psf)(no failure)
EPS thickness—50 mm (2") See Figure 1	- 6272 Pa (- 131 psf) + 3974 Pa(+ 83 psf)(no failure)
EPS thickness—50 mm (2") See Figure 2	- 4261 Pa (- 89 psf) + 3782 Pa(+ 79 psf)(no failure)
EPS thickness—38 mm (1.5") See Figure 2	- 5458 Pa (- 114 psf) + 3782 Pa (+ 79 psf)(no failure)

SENTURION™ OPTION 2

Fire Test Results:
UBC Standard 26-9 (Formerly 17-6)/NFPA 285—intermediate scale fire test
Successfully meets all of the test criteria.

NFPA 268/Radiant Heat Exposure
Satisfies conditions of acceptance. No ignition upon 20 minute radiant heat exposure at 1.25 w/cm^2.

Physical Test Results:
ASTM E 331Modified—drainage performance and drying potential of Class PB EIFS
Pass

ASTM E330—wind-load
Assembly components: wood framing/sheathing—10.9 mm (7/16") exposure 1 oriented strand board; type 15 # felt paper; SikaWall® Drainage Mat; expanded polystyrene insulation board; mechanical fasteners; Senergy Base Coat/Flexguard 4 Reinforcing Mesh; and Senergy Finish Coat.

Assembly Specifics:	Average Ultimate Loads:
Framing—406 mm (16") o.c. EPS thickness—25 mm (1")	- 5123 Pa (- 107 psf) + 3830 Pa (+ 80 psf) (no failure)
Framing—406 mm (16") o.c. EPS thickness—50 mm (2")	- 5841 Pa (- 122 psf) + 4022 Pa (+ 84 psf) (no failure)

FIGURE 1 (FOR SENTURION OPTION 1 & 2)

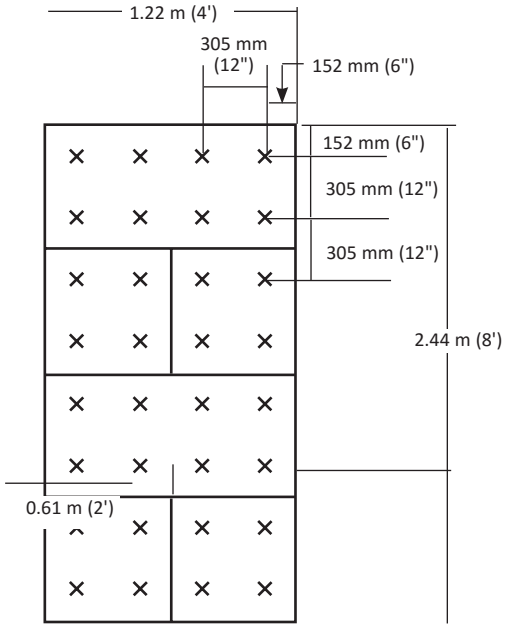
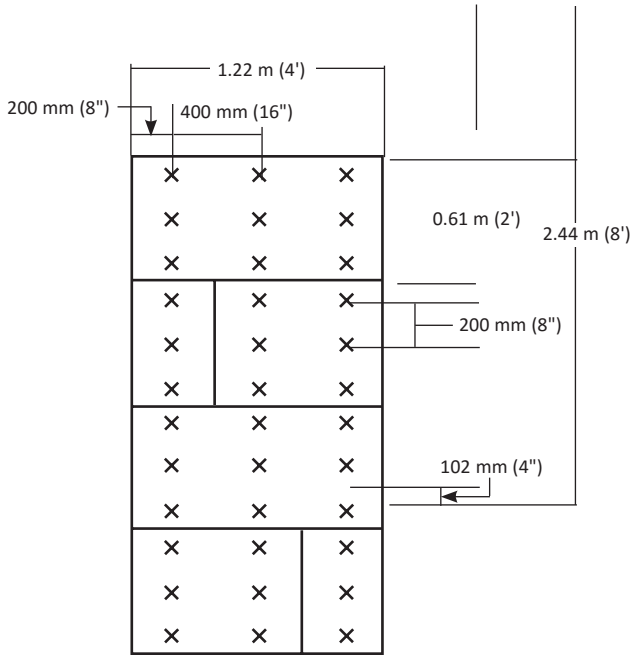


FIGURE 2 (FOR SENTURION OPTION 1)



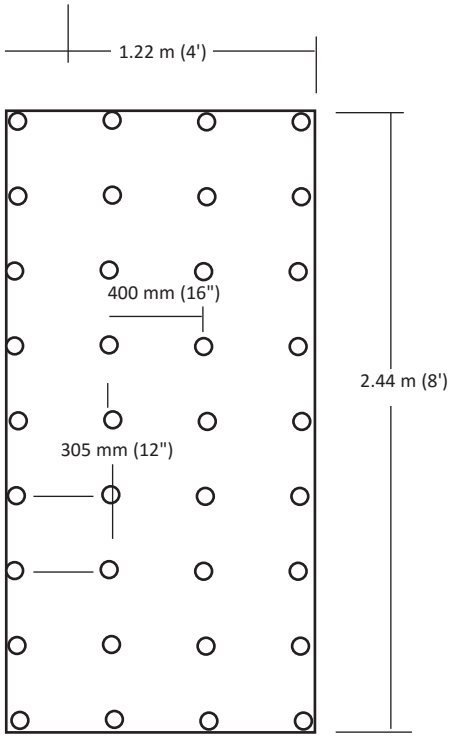
SENTURION™ OPTION 1 & 2 POLYISOCYANURATE

Physical Test Results:
ASTM E331 Modified—drainage performance and drying potential of Class PB EIFS
Pass.

ASTM E330—wind-load
Assembly components: wood framing; 25 mm x 1.22 m x 2.44 m (1" x 4' x 8') polyisocyanurate insulation board; mechanical fasteners; Senergy Base Coat/Flexguard 4 Reinforcing Mesh; and Senergy Finish Coat. Attached 304 mm (12") on center vertically and 406 mm (16") on center horizontally.

Ultimate Loads:
- 6392 Pa (- 133.5 psf)
+ 7302 Pa (+ 152.5 psf)

Note: No safety factors taken into consideration. Apply the safety factors for the code regulations governing the area of installation.



Note: Different methods of attachment are available depending upon project and local building code requirements. Recommended options are shown. Generally accepted engineering and design practice dictates a safety factor of up to three be applied to ultimate loads.
See current Senergy EIFS and Coatings Test Results technical bulletin for additional information.

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