

LETTER REPORT

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July 15, 2021

Armatherm, Inc. 1 Titleist Drive Acushnet, MA 02743 tom@armatherm.com Intertek Report No. G104464357SAT-011 Intertek Project No. G1044464357

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Subject: NFPA 285 Evaluation of the Armatherm Z-Girt Wall Assembly

This letter report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

NFPA 285-2019, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

Intertek Testing Services NA, Inc. (Intertek) conducted screening testing for Armatherm, Inc. on their Z-Girt wall assembly on June 8, 2021. The wall assembly described herein met the conditions of acceptance of the standard. Details of the assembly constructed are below.

TEST REQUIREMENTS	TEST RESULTS	PASS/FAIL
Flames are not to reach 10 ft. above the window opening header.	Flames did not reach 10 ft. above the window opening header.	PASS
Flames are not to reach a lateral distance of 5 ft. from the vertical centerline.	Flames did not reach a lateral distance of 5 ft. from the vertical centerline.	PASS
Flames are not to propagate beyond the limits of the first story test room.	Flames did not propagate beyond the limits of the first story test room.	PASS
No visible flaming allowed in the second story test room	No visible flaming in the second story test room.	PASS
TC's 11 and 14-17 (1000°F limit)	TC's 11 and 14-17 did not exceed their 1000°F limit.	PASS
TC's 18-19, 28, and 31-40 (750°F above ambient)	TC's 18-19, 28, and 31-40 did not exceed their 750°F above their ambient temperatures.	PASS
TC's 49-54 (500°F above ambient)	TC's 49-54 did not exceed 500°F above their ambient temperatures.	PASS
TCs 55-67 (750°F above ambient)	TC's 65-65 did not exceed their 750°F above their ambient temperatures.	PASS

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Base Frame:

- Interior Sheathing: 5/8 in. Type X gypsum board installed in a staggered fashion and fastened 24 in. on center (oc) horizontally and 12 in. oc vertically with 1-3/4 in. self-tapping screws.
- Stud and track layout: 20 GA 3-5/8 in. deep steel studs spaced 24 in. oc with track fastened horizontally along the top and bottom of the window opening as well as on the top and bottom of the wall assembly with 1/2 in self-tapping screws.
- Cavity Insulation: none
- Exterior Sheathing: 1/2 in. Densglass installed in a staggered fashion and fastened 24 in. on center (oc) horizontally and 12 in. oc vertically with 1-3/4 in. self-tapping screws.

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External Cladding System:

- Armatherm[™] Z Girt installed horizontally space approximately 1-1/2 ft oc vertically with #12 x 2-1/2 hex head screws. Tremco Spectrum1 was applied to all external sheathing joints and screw heads.
- Tremco ExoAir[®] 130 weather barrier installed around the window opening perimeter and sheathing joints
- Hunter Xci 3.5" thick Foil Class A insulation installed by friction fitting into the Z-Girt cavities.
- Alucoil Larson FR 4-mm thick panels, incorporating the NOW 8000 System, fastened onto the Armatherm Z-Girts with #12 x 2-1/2 in. hex head self-drilling screws.

Window flashing detail: 040 Aluminum with a 2 in. long vertical leg on the interior surface with the horizontal leg extended until flush with the exterior face.



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APPENDIX A: Photos



Photo No. 1 Armatherm Z-Girt assembly before test.



Photo No. 2 Armatherm Z-Girt assembly after test. (Panels were removed to extinguish fire after the test).



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If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact your dedicated Intertek Project Manager.

Completed by:	Philip G. Casso, E.I.T.	Reviewed by:	Mike Dey
Title:	Project Engineer	Title:	Senior Project Engineer
Signature:	Pl-: C	Signature	Untr Deg
Date	July 15, 2021	Date:	July 15, 2021

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