

Issue Date: December 17, 2021

Intertek Letter Report No. G104788959SAT-004
Intertek Project No: G104788959

Julia Jun
Alfred, LLC
943 Gainesville Hwy., Building 100-4000
Buford, GA 30518
USA

Phone: 470-589-7449

Subject: Summary Letter for Report No. G104788959SAT-002, CAN/ULC S134 testing of 4 mm ALFLEX FR Aluminum Composite Materials

Dear Julia Jun,

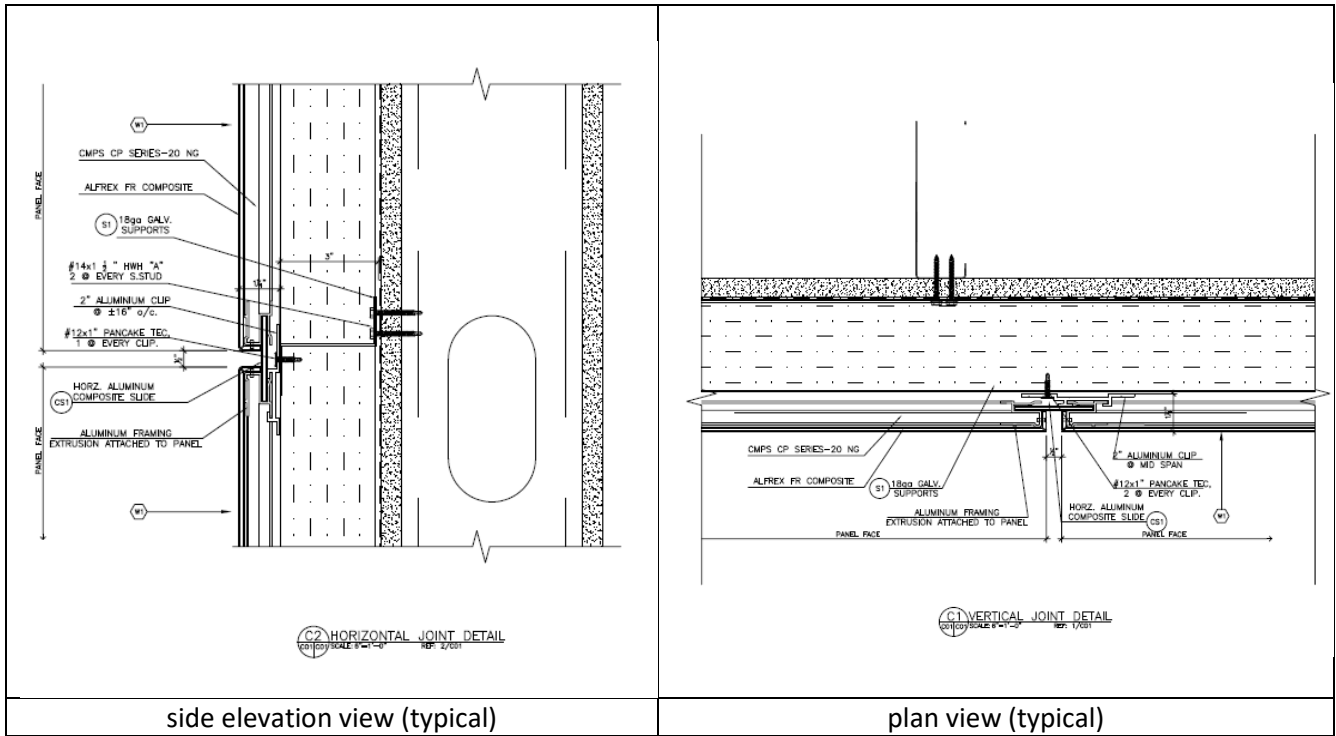
This letter report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

The assembly described above underwent fire resistance testing to the applicable requirements of *CAN/ULC S134 Standard Method of Fire Test of Exterior Wall Assemblies, 2nd Edition, dated August 2013(R2018)*. The test took place on December 2, 2021 and was conducted at the Intertek B&C test facility in Elmendorf, Texas, USA.

Interior cladding was composed of 1/2 in. thick, American Gypsum Firebloc TYPE X gypsum board. Studs used were 2 in. x 6 in., 20 GA galvanized steel studs, 24 in. oc. Exterior sheathing was composed of 5/8 in. DensGlass® Gold Exterior Sheathing (Georgia Pacific). One layer of WrapShield SA® vapor barrier was installed over the exterior sheathing, self-adhered into place. Insulation, 3 in. thick mineral wool with a dual density of 6.2psf on the outer layer and 4.1psf on the inner layer, was used between the vapor barrier and ACM panels. This was held in place with 3 in. wide, 18GA steel zees installed horizontally, spaced 24-in. on center with #14 x 1-1/2 in. type "A" screws, with two screws at every stud, through the pre-installed 2"x 3" aluminum clips around the perimeter of the panels. Exterior panels were 4mm Alfred FR Aluminum Composite Material. The panels were installed leaving a nominal 1/2 in. gap between panels edges.

The assembly and testing are described in full in Intertek Test Report No. G104788959SAT-002





The conclusion of the report states, "The Alfred, LLC aluminum composite panel wall system containing 4 mm thick Alfrex FR Aluminum Composite Materials met the conditions of acceptance outlined in CAN/ULC S134-2013, Standard Method of Fire Test of Exterior Wall Assemblies 2nd Edition, dated August 2013 (Reaffirmed 2018)."



APPENDIX A: Photos




Photo No. 1
4 mm Alfred aluminum composite panel Wall assembly Start of Test.



Photo No. 2
4 mm Alfred aluminum composite panel Wall assembly End of Test.



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 designated Intertek Project Manager.

| | | | |
|---------------|---|--------------|---|
| Completed by: | Emmanuel Ogoe | Reviewed by: | Abel de Hoyos |
| Title: | Project Engineer, Fire Resistance | Title: | Senior Project Manager – Fire Resistance |
| Signature: |  | Signature: |  |
| Date: | 17 December 2021 | Date: | 17 December 2021 |



Intertek



Intertek



Intertek