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Engineering Evaluation Report

Report No.: 514689A

Manufacturer: NovaTech Wall Systems
390 Old Spartanburg Highway
Wellford, SC 29385

Product Line: Accu-Trac DS/ALFREX FR Reinforced Wall System Panel - Impact

Compliance:

The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-03594 revision A, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Report No.: K8138.01-550-18 R1 signed and sealed by Vinu J. Abraham P.E.
Intertek, Lithia Springs, GA.
TAS 201/ TAS 203
Large Missile Impact Test, Level D, Wind Zone 4
Cyclic Pressure loading ± 75.0 psf design pressure
TAS 202 Uniform Static Air Pressure, ± 75.0 psf design pressure, 20.0psf water penetration.
3. Report No.: K8138.02-550-18 R1 signed by James Blakely
Intertek, Lithia Springs, GA.
ASTM E330 Uniform static air pressure ± 75.0 psf, 20.0psf water penetration.
ASTM E1886/ E1996
Large Missile Impact, Level D, Wind Zone 4
Cyclic Load Test, ± 75.0 psf design pressure
4. Anchor calculations and comparative analysis, report number 514689-1, prepared, signed and sealed by Luis Roberto Lomas P.E.

Limitations and Conditions of use:

- Design pressure: ± 75.0 psf
- Panel Size: 120" x 60"
- This product is rated to be used in the HVHZ.
- Panel material to be composite with 3003-H16 aluminum faces 5/32" thickness Alfrex FR MCM.
- Stiffener material to be Extruded Aluminum.
- All clips material to be Extruded Aluminum.
- Panels maybe obtained under the following brand names and manufacturers:
 - Alpolic by Mitsubishi
 - Reynobond by Arconic
 - Alucobond by 3A Composites
 - Alfrex FR by Alfrex, LLC
- Mechanical properties of composite material:
 - ASTM E8 Tensile strength: 7900PSI
Yield strength: 7500PSI
Elongation: 3.6%
 - ASTM C393/D790 Flexural Elasticity: 5740×10^3 PSI
 - ASTM E413 Sound transmission loss: 27 STC

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03594, Revision A.

Certification of Independence:

Please note that I do not have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I do not have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).

