



Eric Ulrich
Commissioner

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Re: OTCR Submittal Code: # 30-18,
Material Assessment of LP SmartSide Lap Siding and LP SmartSide
Panel Treated Engineered Wood Siding
Material Assessment Letter

Ben Barrette,

Thank you for submitting the OTCR1 material assessment application dated 03/23/2018 for the above referenced project evaluating LP SmartSide Lap Siding and LP SmartSide Panel Treated Engineered Wood Siding (siding). The application includes the following:

- **System Description.** LP SmartSide Engineered Wood Products, such as the LP SmartSide Lap Siding and LP SmartSide Panel Siding, are treated engineered wood exterior wall covering materials that are suitable for long-term exposure to weather. Lap siding is not intended for structural applications.
- **Component Description.** LP SmartSide Lap Siding and LP SmartSide Panel Siding consist of a mat-formed wood substrate. Mat formed wood substrate are made of wood particles compressed together to form a flat panel. The mat-formed wood substrate is treated with zinc borate in accordance with AWWPA Standard T1 to preserve the wood. A resin-impregnated overlay material is also bonded to the face of the lap and panel siding products intended to be exposed to weather. The lap siding refers to the way that planks overlap one another, creating a look of overlapped elongated boards, the panel siding are wider panels that can be used to create fewer seams. All lap and panel siding edges are factory sealed with a sealer in accordance with the approved quality-control manual.
- **Supporting Documents.** See Appendix A for a list of Supporting Documents.

Exterior wall coverings, such as the LP SmartSide Treated Engineered Wood Siding Products, are components of exterior walls. BC section 1404.3. requires exterior walls of wood construction be designed in accordance with BC Chapter 23 and the additional requirements prescribed therein. Furthermore, BC section 1406 indicates the provisions for combustible materials on the exterior side of exterior walls. However, neither BC Chapter 14 and 23 prescribe material acceptance requirements for engineered-wood exterior wall coverings such as LP SmartSide Treated Engineered Wood Siding Products. The materials and their use are



therefore determined to be an alternative to Section 1404.3 of the 2014 NYC Building Code.

AC 28-113.2.2 requires alternative materials to comply “with the intent of the provisions of this code” and “equivalent of that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety”. Therefore, the following criteria will be required of Lap Siding and Panel Siding under this application:

- ICC-ES Acceptance Criteria AC321, “Acceptance Criteria for Treated-Engineered-Wood Siding” is intended to establish requirements for treated engineered-wood siding. OTCR evaluated AC321 and determined it is acceptable for demonstrating equivalency as an alternative material. LP SmartSide lap and panel siding are evaluated under Evaluation Report ESR-1301, performed in accordance with ICC-ES AC321.
- The use of LP SmartSide lap and panel siding as an exterior wall covering must comply with the BC section 1406 “Combustible Materials On The Exterior Side Of Exterior Walls”, and the applicable provisions indicated therein, including but not limited to: ignition resistance, fire separation, location, fireblocking, etc.

Consequently, pursuant to AC 28-113, the Office of Technical Certification and Research (OTCR) has determined that the LP SmartSide Lap and Panel Treated Engineered Wood Siding are acceptable alternative materials and may be used as indicated in this letter, including the requirements below, without prior approval.

1. Requirements Prior to Signoff

- a. **Installation.** Installation of the LP SmartSide Lap Siding and LP SmartSide Panel Siding shall be in accordance with:
 - i. Approved plans;
 - ii. Manufacturer’s instructions;
 - iii. Acceptance Criteria AC321;
 - iv. The provisions of BC 1406 Combustible Materials On The Exterior Side Of Exterior Walls;
 - v. The applicable provisions of BC Chapter 16 when used structural applications
 - vi. The FDNY Letter of No Objection (see Supporting Document #7 of this letter).
- b. **Inspections:** Special cases inspections. Special inspections must be performed in compliance with BC 1704.14.
 - i. Qualifications of special inspection agencies shall be in accordance with 1 RCNY 101-06 (c)(3) and Appendix A, which shall be amended with the following:

Special Inspection Category	Primary Inspector or Inspection Supervisor	Supplemental Inspector (Alternative 1) – under direct supervision of inspection Supervisor	Supplemental Inspector (Alternative 2) – under direct supervision of inspection Supervisor

Treated-Engineered-Wood Siding	<ul style="list-style-type: none"> • PE or RA; and • 1 year relevant experience 	<ul style="list-style-type: none"> • Bachelors degree in engineering or architecture; and • 1 year relevant experience 	N/A
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ii. Have duties and responsibilities in accordance with, but not limited to:

- a) 1 RCNY section 101-06
- b) Verification that the siding was installed in accordance with the siding manufacturers application instructions and evaluation report ESR-1301
- c) Complete the statement of special inspection for "Alternative Materials" in section 3.0 of the TR1 form (see below).

<input type="checkbox"/>	Mastic and Intumescent Fire-resistant Coatings	BC 1704.12		
<input type="checkbox"/>	Exterior Insulation and Finish Systems (EIFS)	BC 1704.13		
<input type="checkbox"/>	Alternative Materials - OTCR Buildings Bulletin # _____	BC 1704.14		
<input type="checkbox"/>	Smoke Control Systems	BC 1704.15		
<input type="checkbox"/>	Mechanical Systems	BC 1704.16		
<input type="checkbox"/>	Fuel, Oil Storage and Fuel, Oil Disposal Systems	BC 1704.17		

Use this line to identify "OTCR # 30-18 site-specific approval" uploaded to BIS

In the event of non-compliance with any of the requirements listed above or unresolved system failure during operation, the LP SmartSide Lap Siding and LP SmartSide Panel Siding will be required to be removed at the owner's expense. An audit may be performed to verify compliance.

This OTCR letter only addresses material acceptance. Project approval must be obtained from the Department of Buildings through the required application process. Please refer to the above referenced OTCR Submittal Code in any future correspondence.

Regards,



Mariya Zarankina, RA, LEED Green Associate
Code Development Architect

Cc: Alan Price, PE, Director, OTCR, DOB
Joseph Ackroyd, PE, CFM, Assistant Commissioner, Technical Affairs and Code Development (DOB)
Keith Wen, RA, Assistant Commissioner, Code & Zoning Interpretation
Kam Chan, P.E. (FDNY), Director of Technology Management, Kam.Chan@fdny.nyc.gov

Appendix A
Supporting Documents

1. OTCR 1 application.
2. AC321 Treated-Engineered-Wood Siding – Revised 2021
3. ICC ESR-1301 Evaluation Report
4. LP SmartSide product catalog
5. LP SmartSide care and maintenance instructions
6. List of 10 projects where LP SmartSide was previously used
7. FDNY Letter of No Objection (FP Index No. 1810077) dated December 7, 2018.