



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Smartlam NA Enterprises US LLC
P O Box 2070
Columbia Falls, MT 59912

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "SmartLam Southern Yellow Pine Cross Laminated Timber Panels

APPROVAL DOCUMENT: Drawing No. GLT-23-001, titled " **Southern Yellow Pine Cross Laminated Timber Panels** ", sheet 1 of 1, prepared by Britt, Peters, & Associates, Inc. consulting Engineers, dated November 15, 2023, signed and sealed by David F. Impson, P.E., on December 07, 2023, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each Timber Panel shall bear a permanent label with the manufacturer's name or logo and the Miami-Dade County logo.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
12/14/2023

NOA No. 23-1031.01
Expiration Date: 12/14/2028
Approval Date: 12/14/2023

Smartlam NA Enterprises US LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. GLT-23-001, titled "Southern Yellow Pine Cross Laminated Timber Panels", sheet 1 of 1, prepared by Britt, Peters, & Associates, Inc. consulting Engineers, dated November 15, 2023, signed and sealed by David F. Impson, P.E., on December 07, 2023.*

B. TESTS

1. *Test report PFS-TECO Project 23-634 CSA 0112.9 Testing on Henkel Adhesive LOCTITE HB X202 PURBOND for Henkel Corporation, per ASTM D5266, prepared by PFS-TECO, Springfield Laboratory, Report No. 23-634, dated 07/19/2023, all tests were performed by Brian Thompson or other PFS TECO trained staff/technicians under the supervision of Brian Thompson, report signed and sealed by David Impson, P.E., on 10/18/2023.*

C. CALCULATIONS

1. *APA Product Report PR-L319 of SmartLam Cross-Laminated Timber SmartLam, LLC, date Revised 03/20/2023, 11 pages, prepared by The Engineered Wood Association.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *Letter of approval for LOCTITE HB Xnm2 PURBOND Adhesives, signed and sealed by Borjen ("B.J") Yeh, P.E., dated March 13, 2019.*

F. OTHER

1. *Letter prepared by Britt, Peters, & Associates, Inc. consulting Engineers, dated October 24, 2023, signed and sealed by David F. Impson, P.E., on December 07, 2023, certifying the Smart Lam Cross Laminated Timber Product as described in the approved drawing above is in compliance with the Florida Building Code, 2023 Edition.*



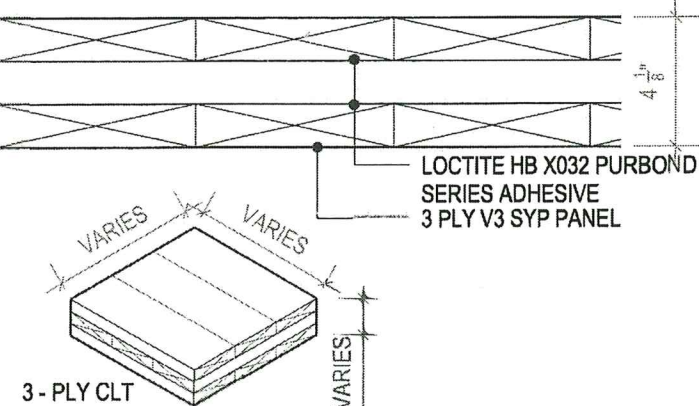
Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 23-1031.01
Expiration Date: 12/14/2028
Approval Date: 12/14/2023

QUALIFICATIONS

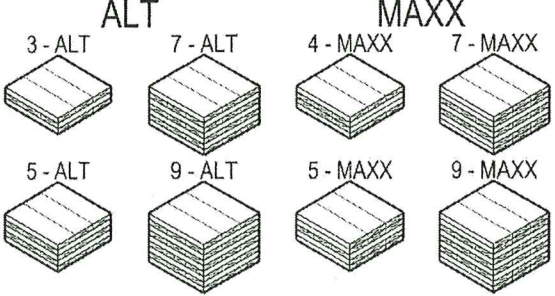
REVIEW HAS BEEN PERFORMED IN COMPLIANCE WITH THE HIGH VELOCITY HURRICANE ZONE [HVHZ] REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE - BUILDING SECTION 2315.1.11 AND THIS NOA IS HEREBY GRANTED PROVIDED:

- 1. THE EXTERIOR SURFACE OF THE CLT GRADE V3, V3.2, V3.3, V3M7, E4M4, E4M5, E4M6 PANEL IS CLADDED WITH AN APPROVED WALL CLADDING SYSTEM;
- 2. THE EXTERIOR ROOF SURFACE OF THE CLT GRADE V3, V3.2, V3.3, V3M7, E4M4, E4M5, E4M6 PANELS IS COVERED WITH AN APPROVED ROOFING SYSTEM;
- 3. THE CLT GRADE V3, V3.2, V3.3, V3M7, E4M4, E4M5, E4M6 PANELS CONSIST OF SOLID WOOD MEMBERS, WITH PANELS COMPRISING OF AT LEAST THREE LAYERS OF SOLID 2X WOOD MEMBERS;
- 4. THE CLT GRADE V3, V3.2, V3.3, V3M7, E4M4, E4M5, E4M6 PANELS ARE STAMPED BY APA AS SHOWN IN THE APPROVED DRAWING.

EXAMPLE CLT BUILDUP



EXAMPLE CLT LAYUP OPTIONS



NOTE: CLT TO FOLLOW SPECIFIED DESIGN GUIDELINES DOCUMENT AND ANSI/APA PRG-320. ALL PRODUCT APPLICATIONS TO BE ENGINEERED PER PROJECT DESIGN.

EXAMPLE CLT LAYUP TABLE - REFERENCE DESIGN GUIDE AND PRODUCT REPORT

Layup	Lamination Thickness (in) in CLT Layup								Total Thickness
	=	⊥	=	⊥	=	⊥	=	⊥	
3-alt	1 3/8	1 3/8	1 3/8						4 1/8
4-maxx	1 3/8	1 3/8 x 2	1 3/8						5 1/8
5-alt	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8				6 1/8
5-maxx	1 3/8 x 2	1 3/8	1 3/8 x 2						6 1/8
7-alt	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8		9 1/8
7-maxx	1 3/8 x 2	1 3/8	1 3/8	1 3/8	1 3/8 x 2				9 1/8
9-alt	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	12 1/8
9-maxx	1 3/8 x 2	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8 x 2		12 1/8

= Laminations oriented in the major strength direction NOTE: THIS IS FOR STANDARD LAYUPS, OTHER LAYUP COMBINATIONS WITH DIFFERENT THICKNESSES ARE AVAILABLE
⊥ Laminations oriented in the minor strength direction

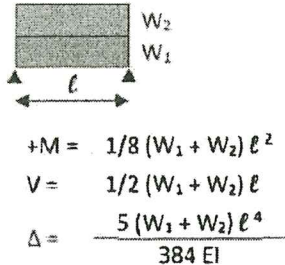
EDGEWISE BENDING IN THE MAJOR [LEFT] AND MINOR [RIGHT] CLT STRENGTH DIRECTIONS

FLATWISE BENDING IN THE MAJOR [LEFT] AND MINOR [RIGHT] CLT STRENGTH DIRECTIONS

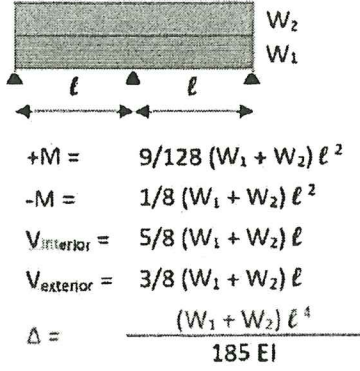


LOADING DIAGRAMS, BENDING MOMENTS, SHEARS AND DEFLECTION

SIMPLE SPAN CONDITION



TWO SPAN CONDITION



NOTES:

l = clear span length (center of support - ft)
W1 = CLT panel self weight (psf)
W2 = uniform Live Load (psf)
EI = apparent bending stiffness (including effects of shear deformation)

LOADING AND LOAD COMBINATIONS

TABLES ACCOUNT FOR CLT SELF WEIGHT.
A REDUCTION IN SELF WEIGHT HAS BEEN CONSIDERED DUE TO CHARRING - POST FIRE.

LOAD COMBINATIONS D + L

MATERIAL

MAXIMUM FINISHED PANEL DIMENSIONS:

COLUMBIA FALLS, MT: 10'-0" X 50'-6" [V3, V3M7]
DOTHAN, AL: 11'-1" X 51'-4" [V3, V3.2, V3.3, V3M7, E4M4, E4M5, E4M6]
1-3/8", 7/8", 5/8"
12 +/- 3% AT TIME OF MANUFACTURING
FINGER JOINTS AND FACE BOND: PURBOND POLYURETHANE ADHESIVE
CLT PANELS ARE INTENDED FOR DRY USE ONLY
R= 1.25 [h x ft² x °F / Btu]

LAMINATION THICKNESS:
MOISTURE CONTENT:
GLUE SPECIFICATION:
INTENDED USE:
THERMAL RESISTANCE:
SHRINKING AND SWELLING:

V3, V3.2, V3.3, V3M7, E4M4, E4M5, E4M6 [SYP] L LENGTH AND WIDTH [LONGITUDINAL]: 0.02% PER % CHANGE IN MOISTURE CONTENT
THICKNESS [RADIAL AND TANGENTIAL]: 0.25% PER % CHANGE IN MOISTURE CONTENT

NOTES:

- A. CONTACT SMARTLAM FOR PLANT SPECIFIC PRESS PARAMETERS
- B. SHRINKAGE OR SWELLING DUE TO CHANGES IN MOISTURE CONTENT PRESENT THEORETICAL VALUES FROM THE NDS AND APA TECHNICAL NOTE EWS Y260. DIMENSIONAL CHANGES THROUGH THE THICKNESS ARE ASSUMED TO BE THE RESULT OF THE COMPOSITE BEHAVIOR BASED ON GRAIN ORIENTATION AND IS BASED ON THE AVERAGE OF RADIAL AND TANGENTIAL EFFECTS.
- C. DIMENSIONAL CHANGES IN THE LONGITUDINAL DIRECTION ARE ASSUMED TO BE 5% OF THAT IN THE TANGENTIAL DIRECTION.
- D. REFER TO SMARTLAM TECHNICAL NOTE ST-1 FOR MORE INFORMATION ON THIS TOPIC.

DIMENSIONAL TOLERANCES

TOLERANCES AT THE TIME OF MANUFACTURING ARE OUTLINED IN THE APA PRG-320.

PANEL THICKNESS: +/- 1/16" OR 2% OF THE DESIGN THICKNESS, WHICHEVER IS GREATER
LENGTH: +/- 1/4" OF THE SPECIFIED LENGTH
WIDTH: +/- 1/8" OF THE SPECIFIED WIDTH
SQUARENESS: FACE TOLERANCES SHALL NOT DIFFER BY MORE THAN 1/8"
STRAIGHTNESS: 1/16" ALONG THE LENGTH OF THE PANEL

Approved as complying with the Florida Building Code
Date 12/14/2023
NOA# 23-1031.01
Miami Dade Product Control
By Hely A. M...

CAPACITY ADJUSTMENT FACTORS AND DESIGN CONSTANTS

LOAD DURATION ADJUSTMENT FACTORS, Cd LIVE LOAD: 1.0
OTHER LOAD DURATION FACTORS MAY NOT BE ASSUMED
SHEAR DEFORMATION CONSTANTS, Ks SINGLE SPAN: 11.5
TWO SPAN: 15.6
FIRE ADJUSTMENT FACTORS BENDING STRENGTH, Kf: 2.85
SHEAR STRENGTH, Kv: 2.75
EFFECTIVE CHAR DEPTHS 1-HOUR: 1.9 IN
2-HOUR: 3.8 IN
ALL CLT LAYUPS ARE COMPOSED WITH 1-3/8" THICK LAMINATIONS

TABULATED CREEP DEFLECTION SPANS ARE BASED ON A TOTAL LOAD DEFLECTION LIMIT OF L/240 AND TIME DEPENDENT DEFORMATION FACTOR K =2.0

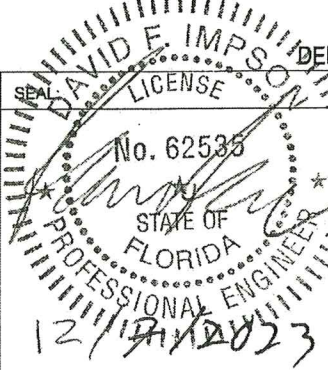
NOTES:

- A. TABULATED CLT LAYUPS ARE THE MINIMUM GOVERNED BY BENDING STRENGTH, SHEAR STRENGTH OR DEFLECTION
- B. DEFLECTION LIMITS LIVE LOAD = L/360
TOTAL LOAD CREEP = L/240
DEFLECTION HAS NOT BEEN CONSIDERED FOR FIRE DESIGN.

SMARTLAM NORTH AMERICA
COLUMBIA FALLS - MONTANA
DOTHAN - ALABAMA
www.smartlam.com

PROJECT INFORMATION:
SOUTHERN YELLOW PINE CROSS LAMINATED TIMBER PANELS

STRUCTURAL ENGINEER:
BRITT, PETERS, & ASSOCIATES, INC.
CONSULTING ENGINEERS
(980) 999-6122
1307 W MOREHEAD ST SUITE 205
CHARLOTTE, NC. 28208



REVISIONS	DATE: 11.15.2023
	DRAWN BY: Atelier Mey
	WWW.ATELIERMEY.NET
	DRAWING NO: CLT - 23 - 001
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