SUMMARY DATA

ASTM D1037-12, Standard Test Methods for Evaluating Properties of Wood-Based Fiber and Particle Panel Materials

Section 9 Static Bending

Client: Arcitell, LLC
Job Number: AL060920-32
Test Location: *ICC NTA*
Nappanee, Indiana

Performed By: Melissa Johnson
Witnessed By: Lucas Ward

General:
Date Received: 9/28/2020
Construction Date: 2/22/2021
Constructed By: Melissa Johnson
Test Date: 2/25/2021
Conditions Assessed: Freeze thaw

Apparatus: Asset No.
Load Frame: 00140
Load Cell: 00151
Loading Block: 01630
Support Blocks: 2039, 2040, 1629
Calipers: 00691
Micrometers: 01448

Product Description:
Manufacturer: Arcitell, LLC
Trade Name/Designation: Qora Cladding
Material Description: Specimens were cut from 48-in. overall length to 34-in. length by cutting 14-in.off the non-tabbed end, retaining the tab end for testiing purposes. , 20-in. wide x 34-in. long x 0.81-in. thick

	Specimen Number	Post (Conditioned) Measurements Thick (in.)	Length (in.)	Width (in.)	Mass (kg)
1	129428	0.803	34.00	20.25	5.6
2	129429	0.821	33.94	20.25	5.7
3	129430	0.764	34.00	20.38	6.0
4	129431	0.796	34.00	20.25	5.8
5	129432	0.765	34.00	20.25	5.6
6	129433	0.756	33.94	20.31	5.8
7	129434	0.778	34.00	20.25	5.7
8	129435	0.856	34.00	20.44	6.1
9	129436	0.756	34.00	20.25	5.8
10	129437	0.756	34.00	20.38	5.8
	Averages:	0.785	33.988	20.301	5.789

Test Variable: Freeze-thaw conditioned specimens per ICC-ES AC92 Section 4.2: Specimens were subjected to 10 freeze-thaw cycles. Each cycle consists of air-drying at a temperature of 120°F for a minimum of eight hours, immersion in water at 70°F to 80°F for eight hours, and exposure to a temperature of –20°F for 16 hours.

Procedure Modifications: Specimens were larger than required due to specimen composition and size needed to ensure acceptable failure mode. Specimens were only tested in one direction with the facing in tension.

This summary contains only data arrived at after employing the specific test procedures listed herein. This summary data might not include all reporting requirements of the test standard. The data herein does not constitute a recommendation for, endorsement of, or certification of the product or material tested. ICC NTA makes no warranty, expressed or implied, except that the test has been performed, and data prepared, based upon the specimen furnished by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC NTA assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC NTA has no control. ICC NTA has issued this data summary for the exclusive use of the client to whom it is addressed. Any use or duplication of this summary shall not be made without their consent. This summary shall only be reproduced in its entirety.

Test Data:

Test Date: 2/25/2021
Load Rate: 2.3 in./minute
Test Span: 30 in.

Performed By: Melissa Johnson
Witnessed By: Lucas Ward

Ambient Conditions:

Ambient Temp.: 71.2˚ F
Ambient R.H.: 51.9% R.H.
Sensor Asset No.: 00587

Table A2: Summary of Test Data

	Specimen No.	Conditioning	Failure Mode	Observations
1	129428	Freeze-thaw	Flexural failure at midspan	None
2	129429	Freeze-thaw	Flexural failure at midspan	None
3	129430	Freeze-thaw	Flexural failure at midspan	None
4	129431	Freeze-thaw	Flexural failure at midspan	None
5	129432	Freeze-thaw	Flexural failure at midspan	None
6	129433	Freeze-thaw	Flexural failure at midspan	None
7	129434	Freeze-thaw	Flexural failure at midspan	None
8	129435	Freeze-thaw	Flexural failure at midspan	None
9	129436	Freeze-thaw	Flexural failure at midspan	None
10	129437	Freeze-thaw	Flexural failure at midspan	None

	Specimen No.	Orientation[a]	Orientation[b]	Maximum Load (lbs)	MOR Modulus of Rupture (psi)	Apparent MOE (psi)	Moisture Content (%)
1	129428	Perpendicular	Face-Down	165	569	128,334	N/A
2	129429	Perpendicular	Face-Down	192	634	160,238	N/A
3	129430	Perpendicular	Face-Down	166	628	142,688	N/A
4	129431	Perpendicular	Face-Down	174	611	136,427	N/A
5	129432	Perpendicular	Face-Down	166	631	148,469	N/A
6	129433	Perpendicular	Face-Down	172	668	166,946	N/A
7	129434	Perpendicular	Face-Down	160	588	140,754	N/A
8	129435	Perpendicular	Face-Down	165	496	132,717	N/A
9	129436	Perpendicular	Face-Down	162	632	146,085	N/A
10	129437	Perpendicular	Face-Down	199	768	195,924	N/A
			Freeze-thaw Averages:	**172**	**623**	**149,858**	**N/A**
			Dry Averages[c]:	**192**	**634**	**180,435**	**N/A**
			Freeze-thaw as percentage of Dry[d]:	**90%**	**98%**	**83%**	

[a] Specimen length parallel or perpendicular to the length of the original panel

[b] Specimen tested with the exterior side face-up or face-down (N/A if panel is symmetric).

[c] See Project AL060920-32 for dry-control data.

[d] Conditions of acceptance per ICC-ES AC92 Section 4.4.2: Average flexural strength (MOR) of freeze-thaw and wet specimens shall be at least 60 percent of the average strength of the dry-control specimens. If values obtained for wet and/or freeze-thaw specimens are less than 90 percent of control-dry specimens, allowable positive and negative load capacity from section 4.7 of AC92 will be reduced proportionately.

This summary contains only data arrived at after employing the specific test procedures listed herein. This summary data might not include all reporting requirements of the test standard. The data herein does not constitute a recommendation for, endorsement of, or certification of the product or material tested. ICC NTA makes no warranty, expressed or implied, except that the test has been performed, and data prepared, based upon the specimen furnished by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC NTA assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC NTA has no control. ICC NTA has issued this data summary for the exclusive use of the client to whom it is addressed. Any use or duplication of this summary shall not be made without their consent. This summary shall only be reproduced in its entirety.