

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: Soaked, Dry Condition

Apparatus: Asset No.
 Load Frame: 00140
 Load Cell: 00151
 Loading Block: 01630
 Support Blocks: 2039, 2040, 1629
 Calipers: 02426
 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 testing purposes. , 20-in. wide x 34-in. long x 0.81-in. thick

Specimen Number	Pre-Conditioning Measurements				Post (Conditioned) Measurements				
	Thick (in.)	Length (in.)	Width (in.)	Mass (kg)	Thick (in.)	Length (in.)	Width (in.)	Mass (kg)	
1	130136	0.810	34.00	20.25	4.99	N/A	N/A	N/A	N/A
2	130137	0.758	33.88	20.19	4.98	N/A	N/A	N/A	N/A
3	130138	0.826	33.94	20.31	5.05	N/A	N/A	N/A	N/A
4	130139	0.755	33.75	20.25	5.04	N/A	N/A	N/A	N/A
5	130140	0.825	33.94	20.38	5.23	N/A	N/A	N/A	N/A
6	130141	0.842	33.81	20.31	5.20	N/A	N/A	N/A	N/A
7	130142	0.817	33.94	20.44	5.19	N/A	N/A	N/A	N/A
8	130143	0.737	33.94	20.25	4.99	N/A	N/A	N/A	N/A
9	130144	0.744	33.94	20.31	5.03	N/A	N/A	N/A	N/A
10	130145	0.748	33.94	20.25	4.96	N/A	N/A	N/A	N/A
11	130146	0.799	34.00	20.13	5.08	0.799	34.00	20.13	5.08
12	130147	0.865	34.06	20.31	5.14	0.865	34.06	20.31	5.14
13	130148	0.822	34.00	20.25	5.10	0.822	34.00	20.25	5.10
14	130149	0.855	34.00	20.31	5.19	0.855	34.00	20.31	5.19
15	130150	0.834	34.00	20.31	5.15	0.834	34.00	20.31	5.15
16	130151	0.839	33.94	20.31	5.14	0.839	33.94	20.31	5.14
17	130152	0.794	33.88	20.31	4.96	0.794	33.88	20.31	4.96
18	130153	0.774	33.88	20.25	5.02	0.774	33.88	20.25	5.02
19	130154	0.794	33.88	20.25	4.97	0.794	33.88	20.25	4.97
20	130155	0.827	33.81	20.31	5.21	0.827	33.81	20.31	5.21
Averages:		0.803	33.926	20.284	5.081	0.820	33.944	20.275	5.095

Test Variable: Soaked (immersed in water at 75°F± 5°F for 48 hours and tested within 30 minutes of removal from water), Dry Condition (7 days at 75°F± 5°F and 50% ± 10% RH)

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.

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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.: 72.3° F
Ambient R.H.: 48.5% R.H.
Sensor Asset No.: 00587

Table A2: Summary of Test Data

Specimen No.	Conditioning	Failure Mode	Observations	
1	130136	Soaked	Flexural failure at midspan	none
2	130137	Soaked	Flexural failure at midspan	none
3	130138	Soaked	Flexural failure at midspan	none
4	130139	Soaked	Flexural failure at midspan	none
5	130140	Soaked	Flexural failure at midspan	none
6	130141	Soaked	Flexural failure at midspan	none
7	130142	Soaked	Flexural failure at midspan	none
8	130143	Soaked	Flexural failure at midspan	none
9	130144	Soaked	Flexural failure at midspan	none
10	130145	Soaked	Flexural failure at midspan	none
11	130146	Dry (Conditioned)	Flexural failure at midspan	none
12	130147	Dry (Conditioned)	Flexural failure at midspan	none
13	130148	Dry (Conditioned)	Flexural failure at midspan	none
14	130149	Dry (Conditioned)	Flexural failure at midspan	none
15	130150	Dry (Conditioned)	Flexural failure at midspan	none
16	130151	Dry (Conditioned)	Flexural failure at midspan	none
17	130152	Dry (Conditioned)	Flexural failure at midspan	none
18	130153	Dry (Conditioned)	Flexural failure at midspan	none
19	130154	Dry (Conditioned)	Flexural failure at midspan	none
20	130155	Dry (Conditioned)	Flexural failure at midspan	none

MOR

Specimen No.	Orientation ^a	Orientation ^b	Maximum Load (lbs)	Modulus of Rupture (psi)	Apparent MOE (psi)	Moisture Content (%)	
1	130136	Perpendicular	Face-Down	159	539	114,799	N/A
2	130137	Perpendicular	Face-Down	156	606	125,240	N/A
3	130138	Perpendicular	Face-Down	173	563	113,641	N/A
4	130139	Perpendicular	Face-Down	157	614	135,100	N/A
5	130140	Perpendicular	Face-Down	170	553	143,163	N/A
6	130141	Perpendicular	Face-Down	168	526	112,850	N/A
7	130142	Perpendicular	Face-Down	176	582	150,901	N/A
8	130143	Perpendicular	Face-Down	161	660	135,510	N/A
9	130144	Perpendicular	Face-Down	157	629	141,732	N/A
10	130145	Perpendicular	Face-Down	158	628	134,380	N/A
11	130146	Perpendicular	Face-Down	185	647	175,211	N/A
12	130147	Perpendicular	Face-Down	193	572	193,040	N/A
13	130148	Perpendicular	Face-Down	212	696	169,445	N/A
14	130149	Perpendicular	Face-Down	197	598	190,369	N/A
15	130150	Perpendicular	Face-Down	203	645	183,932	N/A
16	130151	Perpendicular	Face-Down	190	596	186,523	N/A
17	130152	Perpendicular	Face-Down	175	616	156,666	N/A
18	130153	Perpendicular	Face-Down	180	667	173,483	N/A
19	130154	Perpendicular	Face-Down	184	650	170,428	N/A
20	130155	Perpendicular	Face-Down	201	652	205,255	N/A

Dry Averages: 192 634 180,435 N/A
Soaked Averages: 164 590 130,732 N/A

Soaked as percent of Dry^c: 85% 93% 72%

^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 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.

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