CHSN062618-22, ASTM C1185-08(2016).5 TEST Flexural Test of Sheathing Panels (FINAL) Summary Out Data

SUMMARY DATA

ASTM C1185-08(2016), Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards Section 5: Flexural Strength (Modulus of Rupture)

Client: Chu & Son Job Number: CHSN062618-22 Test Location: *NTA, Inc. Nappanee, Indiana* Constructed By: Melissa Johnson Performed By: Melissa Johnson Witnessed By: Caleb Hunsberger

General:			Apparatus:	Asset No.
Date Received: 6/	27/2018		Sensor (Conditioning):	00000
Construction Date: 8/	1/2018		Tape:	01448
Conditioning: S	tart Date: 8/1/2018		Calipers:	01780
]	End Date: 8/8/2018		Balance:	00003
Test Date: 8/	9/2018		Load Frame:	00140
			Load Cell:	00151
Conditioning	Environment (Equilibrium):		Load Fixture:	01149
Start	Temp. (°F): 72.1	RH (%) 49.5	Support Fixture:	01149
End	Temp. (°F): 72.8	RH (%) 48.5	Tape:	01448
			Sensor (Test):	00576
Product Descr	iption:		Dial Indicator:	N/A

Manufacturer: Chu & Son Trade Name: Dragon Board Material Description: 6-in x 12-in x 18mm nominal thickness Dragon Board Product Certifications: none Product Type: Flat Sheet

Test Results: Test Variable: None Modifications: None

Load Rate (in./min.): 1.25 Span (in.): 10 Ambient Temp. (°F): 72.5 Ambient RH (%): 51.2

	Flexural Strength (psi)	0	• Modulus of Elasticity (psi)
Average:	1,901	157	916,558
St. Dev.:	166	14	83,486
COV:	8.73%	9.17%	9.11%

Table A1: Summary of Results

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. NTA, Inc. 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. NTA, Inc. 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 NTA, Inc. has no control. NTA Inc. 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.

NTA, Inc.

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Table A 2. Individual Test Specimon Desults

Test Results:

		18	ble A2: Indiv	idual Test S	pecimen Res	suits		
Parent No.	Spec. No.	Long Edge Orientation	Width (in.)	Avg. Thickness (in.)	Ultimate load (lb)	Flexural Strength (psi)	Breaking Moment (ft-lb/ft)	Modulus of Elasticity (psi)
102042	103146	Unknown	5 7/8	0.70	333	1,738	142	889,416
102042	103147	Unknown	5 7/8	0.70	358	1,842	152	815,929
102042	103148	Unknown	5 7/8	0.71	424	2,169	180	1,052,992
102042	103149	Unknown	5 7/8	0.71	393	2,011	167	963,872
102042	103150	Unknown	5 7/8	0.71	341	1,746	145	860,579

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	Mode of Failure
103146	Flexural Failure at midspan an inch from load
103147	Flexural Failure at midspan an inch from load
103148	Flexural Failure at load head
103149	Flexural Failure at load head
103150	Flexural Failure at midspan an inch from load

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