



**Mill Specification for
19/32 Performance Category, 40/20 Span Rated
Oriented Strand Board**

for

Mill #363

Modern Lumber Technology Ltd.

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Russian Federation

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Reference:

Reference #1 – PFS TECO Report 17-721



General Information

Product Standard(s)	U.S. Department of Commerce Voluntary Product Standard PS 2-10, <i>Performance Standard for Wood-Based Structural-Use Panels</i>
Mill Number	363
Product Description	Oriented Strand Board
Trademark Thickness	0.563 INCHES
Nominal Size	48 x 96 inches
Performance Category	19/32 Perf CAT
Span Rating	40/20
Bond Classification	Exposure 1
Grade	Sheathing Span®

Dimensional Tolerances

Width	Plus 1/16 inches, Minus 1/16 inches
Length	Plus 1/16 inches, Minus 1/16 inches
Thickness	Minimum ¹ 0.578, Maximum 0.625 inches
Squareness	1/64 inch per lineal foot
Straightness	1/16 inch

Structural and Mechanical Properties

Concentrated Static Load ¹

	Roof	Subfloor
Maximum Deflection Under 200 lbf Load (in)	0.500	0.219
Minimum Ultimate Load (lb)	400	400

Large Specimen Bending ²

Dry	Parallel to Strength Axis of Panel	Perpendicular to Strength Axis of Panel
Stiffness, EI (lb-in²/ft)	307,963	107,997
Strength, MM (lb-in/ft)	3,342	1,667

¹ Values are based on Section 5 of PS 2, according to Section 6.3 of PS 2.

² Values are based on Reference #1.



Small Specimen Bending ¹

Dry	Parallel to Strength Axis of Panel	Perpendicular to Strength Axis of Panel
Stiffness, EI (lb-in ² /ft)	245,520	84,570
Strength, MM (lb-in/ft)	4,301	1,544

Small Specimen Bending ³

Dry	Parallel to Strength Axis of Panel	Perpendicular to Strength Axis of Panel
Stiffness, EI (lb-in ² /ft)	132,000	38,000
Strength, MM (lb-in/ft)	2,170	970

Physical Properties

Linear Expansion ⁴

	Parallel to Strength Axis of Panel	Perpendicular to Strength Axis of Panel
LE OD to VPS (%)	0.50	0.50

Adhesive Bond ⁵

Small specimen bending following single-cycle	Parallel to Strength Axis of Panel
Strength, MM (lb-in/ft)	1,210

³ Values based on, “Tabulated values in Table 8, Section 6.3.2.2 of PS 2

⁴ Values are based on Procedure B, Section 6.3.3.3 of PS 2.

⁵ Value based on, “Tabulated values in Table 7”, Section 6.3.4.1 of PS 2