APA PRODUCT REPORT®

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Georgia-Pacific DryMax® Industrial Panel — PR-N135
GP North Woods LLC

Revised February 17, 2018

Product: Georgia-Pacific DryMax® Industrial Panel
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1. Basis of the product report:
   - ASTM D1761 Standard Test Methods for Mechanical Fasteners in Wood
   - ASTM D2718 Standard Test Methods for Sturtural Panels in Planar Shear
   - ASTM D3043 Standard Test Methods for Structural Panels in Flexure
   - APA Panel Design Specification
   - DOC PS 2 Performance Standard for Wood-Based Structural-Use Panels
   - APA Reports T2014P-47A and T2014P-49A, and other qualification data

2. Product description:
   Georgia-Pacific DryMax® industrial panels are 23/32 Performance Category Structural I OSB sheathing with a 48/24 span rating in accordance with PS 2, which can be used as floors in truck beds when manufactured and quality-controlled to a proprietary mill specification documented in the in-plant manufacturing standard and approved by APA.

3. Design properties:
   Table 1 provides general properties for Georgia-Pacific DryMax® industrial panels. The allowable mechanical properties for Georgia-Pacific DryMax® industrial panels are listed in Table 2. The applicability of the DryMax® industrial panels at various spans and loads is presented in Table 3. Reference fastener lateral design values for panels applied to steel framing and steel framing applied to panels with select screw sizes are listed in Tables 4 and 5, respectively. Table 6 provides reference withdrawal design values for select screw sizes.

4. Product Installation:
   The 23/32 Performance Category DryMax® industrial panels recognized in this report shall be installed in accordance with the recommendations provided by the manufacturer, and the applicable load-span restrictions listed in Table 3 of this report. The maximum span shall not exceed the span rating shown in the DryMax® industrial panel trademark.

5. Limitations:
   a) Georgia-Pacific DryMax® industrial panels are limited to dry service conditions where the average equilibrium moisture content of sawn lumber is less than 16 percent.
   b) Georgia-Pacific DryMax® industrial panels shall be permitted for use as trailer floors in accordance with the load-span restrictions listed in Table 3 of this report. Reference fastener lateral and withdrawal design values tabulated in Tables 4, 5, and 6 of this report shall be used in design, when required.
   c) Georgia-Pacific DryMax® industrial panels are produced by GP North Woods LLC at the facility in Englehart, Ontario, Canada, under a quality assurance program audited by APA.
   d) This report is subject to re-examination in one year.

6. Identification:
   Georgia-Pacific DryMax® industrial panels recognized in this report are identified by a label bearing the manufacturer's name and/or trademark (GP North Woods LLC), the APA assigned plant number (530), the product Performance Category (23/32), the Span Rating

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(48/24, Structural I), the Exposure Rating (Exposure 1), the APA logo, the report numbers PR-N135, and a means of identifying the date of manufacture.

Table 1. General Properties for Georgia-Pacific DryMax® Industrial Panels

Description	Specification
Thickness	23/32 inch, ± 1/32 inch
	Recommended Label: Thickness 0.703 in.
Length and Width Tolerances	Nominal Dimension ± 1/16 inch
Length and Width Straightness Tolerances	± 1/16 inch
Squareness	± 1/64 inch/lineal foot
Formaldehyde	Exempt from testing by CARB and HUD

For SI: 1 inch = 25.4 mm; 1 foot = 305 mm

Table 2. Allowable Mechanical Properties for Georgia-Pacific DryMax® Industrial Panels[(a)]

Property	23/32 Performance Category	
	Stress parallel to strength axis	Stress perpendicular to strength axis
Panel Bending Stiffness (EI), lbf-in.^{2}/ft	400,000	146,400
Panel Bending Strength (F_bS), lbf-in./ft	1,000	608
Panel Shear in the plane (F_s(IB/Q)) lbf/ft	250	250

For SI: 1 lbf-in.^{2}/ft = 9.415 N-m^2/m; 1 lbf-in./ft = 0.3707 N-m/m; 1 lbf/ft = 14.59 N/m

[(a)] The tabulated properties are in compliance with the design values for 48/24 Structural I OSB sheathing in accordance with the APA Panel Design Specification.

Table 3. Applicability of Georgia-Pacific DryMax® Industrial Panels for Transportation Equipment

Uniform Live Load (psf)	Center-to-Center Support Spacing (in.)[(a)]							
	Panel Perpendicular to Supports					Panel Parallel to Supports		
	12	16	20	24	32	12	16	24
50	✓	✓	✓	✓	✓	✓	✓	✓
100	✓	✓	✓	✓	✓	✓	✓	✓
150	✓	✓	✓	✓		✓	✓	
200	✓	✓	✓	✓		✓	✓	
250	✓	✓	✓			✓	✓	
300	✓	✓				✓		
350	✓	✓				✓		
400	✓					✓		
450	✓					✓		

For SI: 1 inch = 25.4 mm; 1 psf = 47.9 Pa

[(a)] Based on multi-span applications under normal duration of load and dry-use conditions with panels of 24 inches or wider attached to 2x nominal supports. The load-span combinations marked by "✓" shall be permitted for Georgia-Pacific DryMax® industrial panels.

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Table 4. Reference Lateral Design Values for Sheet Metal Screws through Georgia-Pacific DryMax® Industrial Panels into Steel Framing[a,b]

Framing	Reference Lateral Design Values (lbf)				
	Screw Size				1/4-in.–20 Self-Tapping Screws
	#8	#10	#12	#14	
0.058-in. Galvanized Steel Hat Channels	140	195	225	240	230

For SI: 1 inch = 25.4 mm; 1 lbf = 4.448 N

[a] Based on normal duration of load in dry-use conditions.
[b] Based on 0.058-in.-thick steel with a tensile capacity of 130,000 psi.

Table 5. Reference Lateral Design Values for Sheet Metal Screws through Steel Framing into Georgia-Pacific DryMax® Industrial Panels[a,b]

Framing	Reference Lateral Design Values (lbf)				
	Screw Size				1/4-in.–20 Self-Tapping Screws
	#8	#10	#12	#14	
0.058-in. Galvanized Steel Hat Channels	105	125	145	190	170

For SI: 1 inch = 25.4 mm; 1 lbf = 4.448 N; 1 psi = 6.89 kPa

[a] Based on normal duration of load in dry-use conditions.
[b] Based on 0.058-in.-thick steel with a tensile capacity of 130,000 psi.

Table 6. Reference Withdrawal Design Values for Sheet Metal Screws[a,b]

Georgia-Pacific DryMax® Panels	Reference Withdrawal Design Values for Screws (lbf)				
	Screw Size				1/4-in.–20 Self-Tapping Screws
	#8	#10	#12	#14	
23/32	125[c]	165[c]	195[c]	225[d]	185[d]

For SI: 1 inch = 25.4 mm; 1 lbf = 4.448 N; 1 psi = 6.89 kPa

[a] Based on normal duration of load in dry-use conditions.
[b] Based on 0.058-in.-thick steel with a tensile capacity of 130,000 psi.
[c] Value controlled by screw head pull-through *Georgia Pacific DryMax*® industrial panels.
[d] Value controlled by screw pull-out of metal framing.

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