PALLET DESIGN SYSTEM Version 3.35 Pallet Structural Analysis

Pallet ID: GMA 48 x 40 4-Way Mixed Width Deck Boards

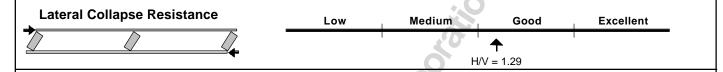
Classification 48.00 x 40.00, Stringer-Class, Double-Face Non-Reversible, Partial 4-Way, Limited-Use, New Manufacture

Unit Load Type: Uniformly Distributed - Full Pallet Coverage

Unit Load Weight VariabilityHigh

Service EnvironmentDry Environment (EMC <= 19%)

Support Condition	Safe Maximum Load	Deflection at Maximum Load	User Specified Deflection Limit	Maximum Load for Deflection Limit	Critical Member
Stacked 1 Unit Load High + + + + + + + + + +	5659 lbs.	0.19 in.	0.18 in.	4783 lbs.	Top Deckboard
Stacked 3 Unit Loads High	2902 lbs. (each pallet)	0.19 in.	0.18 in.	2453 lbs. (each pallet)	Top Deckboard



The recommendations from PDS are based on the NWPCA's continuing program of laboratory and field research. They represent the best available engineering information compiled to date.

However, the quality of workmanship, the input data, and the conditions in which pallets are used may vary widely. Therefore, the Association cannot accept responsibility for pallet performance or design as actually constructed. Wood pallets bearing the NWPCA SPEQ trademark are manufactured to the Uniform Standard for Wood Pallets established by the Association which define the prescriptive and performance criteria.

Wood pallets manufactured to this PDS design are for the sole purpose of storing and/or transporting material. Under no circumstance should any person stand, step, or lean upon them or otherwise use them for support.

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Pallet Design System - Version 3.3 Software developed by:

The Pallet and Container Research Laboratory Department of Wood Science and Forest Products College of Natural Resources Virginia Polytechnic Institute and State University Blacksburg, Virginia 24061-0503 Prepared by: PDS License: 327 Date: October 04, 2004

Based on research conducted by: Virginia Polytechnic Institute and State University U.S.D.A. Forest Service APA - The Engineered Wood Association NWPCA - National Wooden Pallet and Container Association

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	At Manufacture	At 25% MC	At 19% MC	At 15% MC	At 12% MC	
Average Pallet Weigh	t 45 lbs.	33 lbs.	32 lbs.	31 lbs.	30 lbs.	
Dimensional Change due t	o Wood Drying			Width Shrinkage	s Shrinkage	
Component	Original Dimension	Shrinkage from Manufacture to 19% MC		Shrinkage from Manufacture to 15% MC		
Top Deckboards	0.625 in. Thickness 5.500 in. Width 3.500 in. Width	0.088 in. (+/-	0.010 in. (+/- 0.003 in.) 0.088 in. (+/- 0.025 in.) 0.056 in. (+/- 0.016 in.)		0.015 in. (+/- 0.004 in.) 0.128 in. (+/- 0.036 in.) 0.081 in. (+/- 0.023 in.)	
Stringers	3.500 in. Height 1.500 in. Width	0.056 in. (+/- 0.016 in.) 0.024 in. (+/- 0.007 in.)		0.081 in. (+/- 0.023 in.) 0.035 in. (+/- 0.010 in.)		
Bottom Deckboards	0.625 in. Thickness 5.500 in. Width 3.500 in. Width	0.010 in. (+/- 0.003 in.) 0.088 in. (+/- 0.025 in.) 0.056 in. (+/- 0.016 in.)		0.015 in. (+/- 0.004 in.) 0.128 in. (+/- 0.036 in.) 0.081 in. (+/- 0.023 in.)		
Reference Data			~			
	2 3 (Total: 48) (Total: 36)	bd ft)				
Pallet Design System - Versi Software developed by: The Pallet and Container Research Lat Department of Wood Science and Fore College of Natural Resources Virginia Polytechnic Institute and State	poratory est Products	Prepared by: PDS License: 327 Date: October 04, 2004 Based on research conducted by: Virginia Polytechnic Institute and State University U.S.D.A. Forest Service APA - The Engineered Wood Association NWPCA - National Wooden Pallet and Container Association				

Virginia Polytechnic Institute and State University Blacksburg, Virginia 24061-0503

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Pallet Specification Sheet All dimensions in inches							
Customer: The Home Depot	Prepared by: North American Container Corporation 1811 West Oak Parkway, Suite D Marietta, Ga 30062 PDS License: 327 Date: October 04, 2004						
Pallet ID: GMA 48 x 40 4-Way Mixed Width Deck Boards Classification 48.00 x 40.00, Stringer-Class, Double-Face Non-Rever	rsible, Partial 4-Way, Limited-Use, New Manufacture						
Side View 48.00 48.00 48.00 48.00 48.00 48.00	Top View Bottom View 40.00 40.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Components	Materials						
Top Deck:Style: DeckboardType: New LumberThickness: 0.625Length: 40.00Wing: 0.00Total Number of Deckboards:7NumberFasteners Per Connection25.500353.5002Endboards Flush, Interior boards Equally SpacedVolume: 4.9 bd ftBottom Deck:Style: DeckboardType: New LumberThickness: 0.625Length: 40.00Wing: 0.00Total Number of Deckboards55NumberWidth25.500333.5002Endboards Flush, Interior Cluster Equally SpacedVolume: 3.7 bd ftStringers:Type: New LumberHeight: 3.500Length: 48.00Total Number of Stringers:3NumberMumberWidth31.500Partial 4-way Entry Notch:Stringers:	Fasteners: Fastener ID: Fastener Type: Helically Threaded Nail Fastener Length: 2.25 Thread Length: 1.50 Thread Diameter: 0.120 Wire Diameter: 0.281 Head Diameter: 0.281 Helixes: 6.0 Flutes: 4 Thread Angle: 69 MIBANT Angle: 36 FWI: 46 FSI: 67 Total Number: 84 New Lumber: 84 New content: Green 100 % Moisture Content: Green 100 %						
Depth: 1.000 Length: 9.00 Location: 6.00 Radius: 0.50 Volume: 5.3 bd ft Custom Notes and Information: The materials generated from the PDS software (including without limitation specification sheet, drawings, and all a	analyses) (PDS Materials) are protected by convribit and you may not conv. modify						

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PALLET DESIGN SYSTEM Version 3.35 Pallet Drawing

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Classification 48.00 x 40.00, Stringer-Class, Double-Face Non-Reversible, Partial 4-Way, Limited-Use, New Manufacture

All dimensions in inches

