

PALLET DESIGN SYSTEM Version 4.1

Pallet Specification Sheet

All dimensions in inches

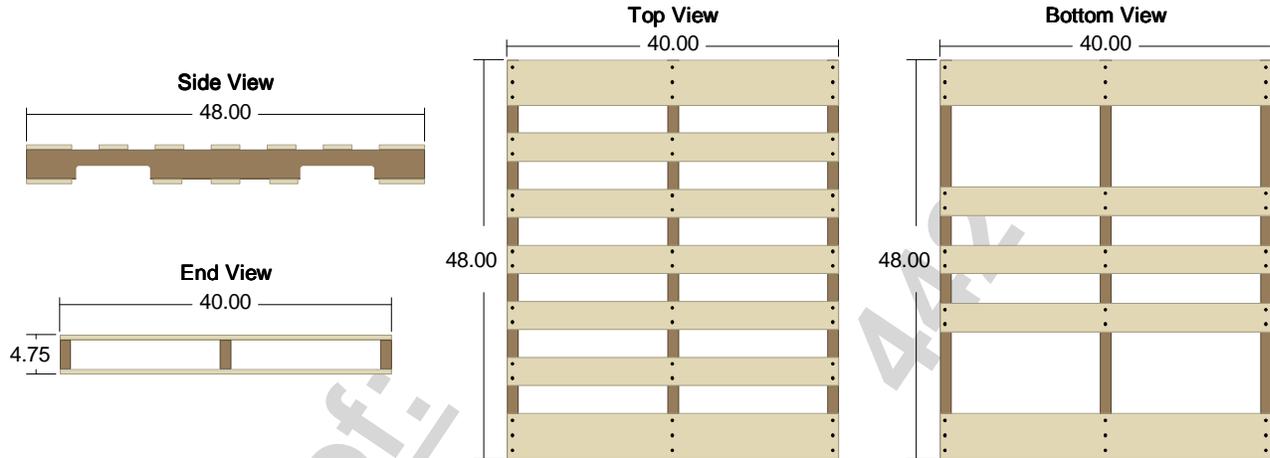
Customer:

Prepared by:

PalletMaxx, Inc.
4818 W. 137th St.
Crestwood, IL 60445
PDS License: 442 Printed: March 16, 2010

Pallet ID: New 48 x 40 4-way 5/8" GMA

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



Components

Materials

Top Deck:

Style: Deckboard **Type:** New Lumber

Number	Thickness	Width	Length
5	0.625	3.500	40.00
2	0.625	5.500	40.00

Volume: 4.9 bd ft

Bottom Deck:

Style: Deckboard **Type:** New Lumber

Number	Thickness	Width	Length
3	0.625	3.500	40.00
2	0.625	5.500	40.00

Volume: 3.7 bd ft

Stringers:

Type: New Lumber

Number	Width	Height	Length
3	1.375	3.500	48.00

Volume: 4.8 bd ft

Partial 4-way Entry Notch:

Depth: 1.500 Length: 9.00 Location: 6.00 Radius: 0.75

Fasteners:

Fastener ID:	
Fastener Type:	Helically Threaded Nail
Fastener Length:	2.25
Thread Length:	1.25
Thread Diameter:	0.104
Wire Diameter:	0.099
Head Diameter:	0.250
Helixes:	5.7
Flutes:	4
Thread Angle:	70
MIBANT Angle:	60
FWI:	35
FSI:	37
Total Number:	84

New Lumber:

Lumber ID:

Species Class	Grade	Lumber Mix
Medium Density Eastern Hardwoods	Standard &BTR	50 %
Eastern Oaks	Standard &BTR	50 %

Moisture Content (at manufacture and assembly): Green

Total New Lumber Volume: 13.5 bd ft

Spec Sheet Notes:

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Pallet Structural Analysis

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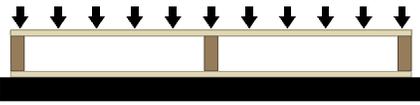
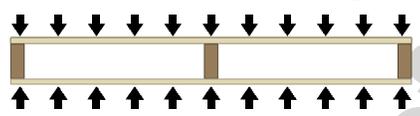
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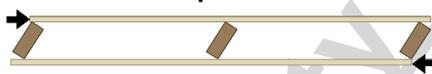
Unit Load Type: Uniformly Distributed - Full Pallet Coverage

Unit Load Weight Variability: Low

Service Environment: Dry 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 	5575 lbs.	0.25 in.	----	----	Top Deckboard
Stacked 2 Unit Loads High 	3484 lbs. (each pallet)	0.25 in.	----	----	Top Deckboard

Lateral Collapse Resistance



Low Medium Good Excellent

H/V = 1.09

Pallet Design System (PDS)

Developed by:

National Wooden Pallet and Container Association (NWPCA)

In cooperation with:

Pallet and Container Research Laboratory, Virginia Tech Department of Wood Science and Forest Products;
 U.S.D.A. Forest Service and Forest Products Laboratory; APA - The Engineered Wood Association;
 Software Technologies Laboratory, Virginia Tech Department of Industrial and Systems Engineering

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 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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National Wooden Pallet and Container Association, 1421 Prince Street, Suite 340, Alexandria, Virginia 22314-2805

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Pallet Physical Property Analysis

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Average Pallet Weight	At Manufacture	At 25% MC	At 19% MC	At 15% MC	At 12% MC
	58 lbs.	40 lbs.	38 lbs.	37 lbs.	36 lbs.



Component	Original Dimension	Shrinkage from Manufacture to 19% MC	Shrinkage from Manufacture to 15% MC
Top Deckboards	0.625 in. Thickness	0.014 in. (+/- 0.005 in.)	0.021 in. (+/- 0.007 in.)
	3.500 in. Width	0.080 in. (+/- 0.026 in.)	0.116 in. (+/- 0.037 in.)
	5.500 in. Width	0.126 in. (+/- 0.041 in.)	0.183 in. (+/- 0.059 in.)
Stringers	3.500 in. Height	0.080 in. (+/- 0.026 in.)	0.116 in. (+/- 0.037 in.)
	1.375 in. Width	0.032 in. (+/- 0.010 in.)	0.046 in. (+/- 0.015 in.)
Bottom Deckboards	0.625 in. Thickness	0.014 in. (+/- 0.005 in.)	0.021 in. (+/- 0.007 in.)
	3.500 in. Width	0.080 in. (+/- 0.026 in.)	0.116 in. (+/- 0.037 in.)
	5.500 in. Width	0.126 in. (+/- 0.041 in.)	0.183 in. (+/- 0.059 in.)

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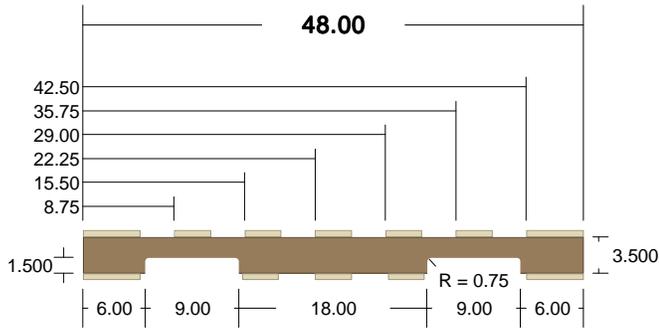
2-D Pallet Drawings

All dimensions in inches

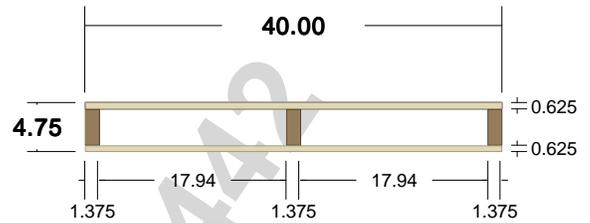
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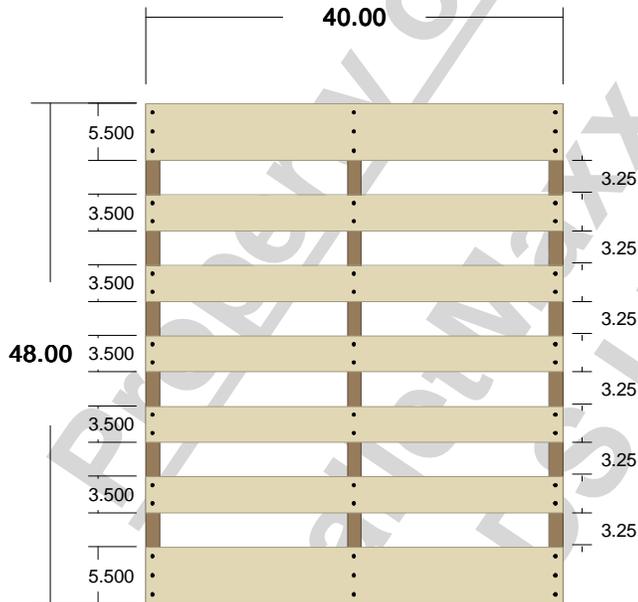
Side View



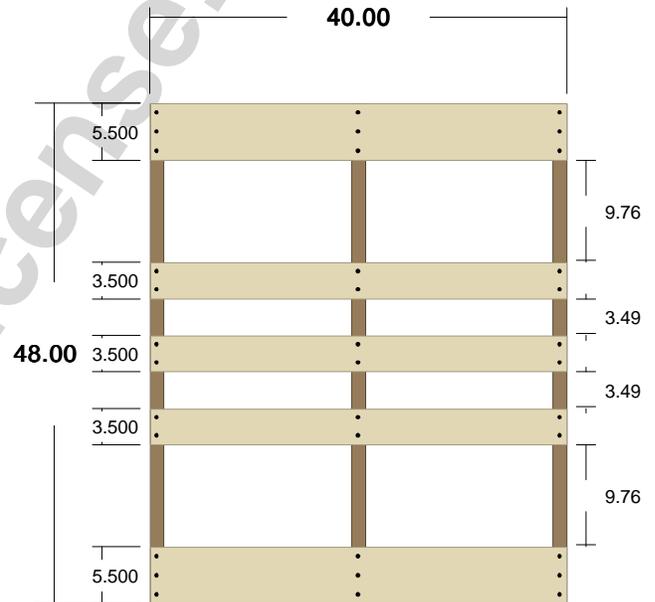
End View



Top View



Bottom View



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