

PALLET DESIGN SYSTEM Version 4.1

Pallet Specification Sheet

All dimensions in inches

Customer:

You The Customer
123 Success Highway
Aim To Please, USA 12345

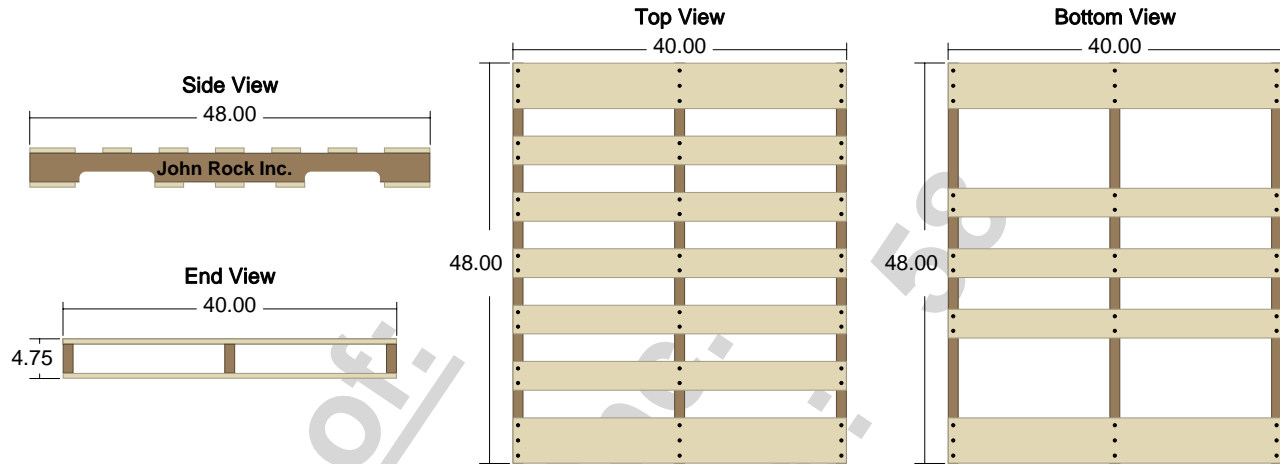
Prepared by:

John Rock Inc.
500 Independence Way
Coatesville, PA 19320
PH: 610-857-8080
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PDS License: 58 Printed: September 25, 2009

Pallet ID: 48 x 40 GMA

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

Pallet Treatments: ISPM-15 Compliance: Heat Treatment (HT)



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	1.250	3.500	48.00

Volume: 4.4 bd ft

Partial 4-way Entry Notch:

Depth: 1.250 Length: 9.00 Location: 6.00 Radius: 1.50

Fasteners:

Fastener ID:	2" Nail
Fastener Type:	Helically Threaded Nail
Fastener Length:	2.00
Thread Length:	1.50
Thread Diameter:	0.127
Wire Diameter:	0.113
Head Diameter:	0.281
Helixes:	7.9
Flutes:	5
Thread Angle:	67
MIBANT Angle:	32
FWI:	75
FSI:	74
Total Number:	84

New Lumber:

Lumber ID: Mixed Eastern Hardwoods

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

Moisture Content (at manufacture and assembly): Green

Total New Lumber Volume: 13.1 bd ft

Spec Sheet Notes:

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Pallet Structural Analysis

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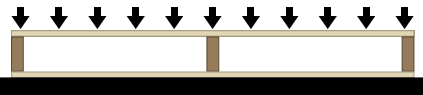
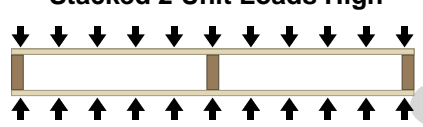
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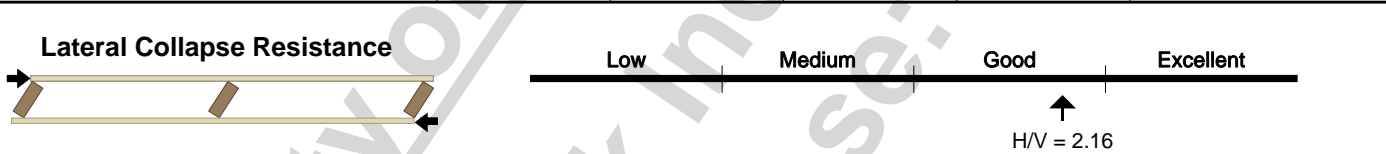
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Unit Load Type: Uniformly Distributed - Full Pallet Coverage

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 	6522 lbs.	0.27 in.	0.01 in.	241 lbs.	Top Deckboard
Stacked 2 Unit Loads High 	4076 lbs. (each pallet)	0.27 in.	0.01 in.	151 lbs. (each pallet)	Top Deckboard



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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Pallet Physical Property Analysis

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	At Manufacture	At 25% MC	At 19% MC	At 15% MC	At 12% MC
Average Pallet Weight	59 lbs.	42 lbs.	40 lbs.	39 lbs.	38 lbs.



Component	Original Dimension	Shrinkage from Manufacture to 19% MC	Shrinkage from Manufacture to 15% MC
Top Deckboards	0.625 in. Thickness	0.015 in. (+/- 0.004 in.)	0.021 in. (+/- 0.006 in.)
	3.500 in. Width	0.081 in. (+/- 0.023 in.)	0.117 in. (+/- 0.034 in.)
	5.500 in. Width	0.128 in. (+/- 0.037 in.)	0.184 in. (+/- 0.053 in.)
Stringers	3.500 in. Height	0.081 in. (+/- 0.023 in.)	0.117 in. (+/- 0.034 in.)
	1.250 in. Width	0.029 in. (+/- 0.008 in.)	0.042 in. (+/- 0.012 in.)
Bottom Deckboards	0.625 in. Thickness	0.015 in. (+/- 0.004 in.)	0.021 in. (+/- 0.006 in.)
	3.500 in. Width	0.081 in. (+/- 0.023 in.)	0.117 in. (+/- 0.034 in.)
	5.500 in. Width	0.128 in. (+/- 0.037 in.)	0.184 in. (+/- 0.053 in.)

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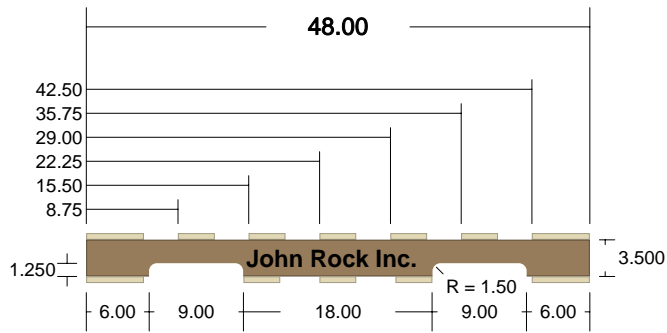
2-D Pallet Drawings

All dimensions in inches

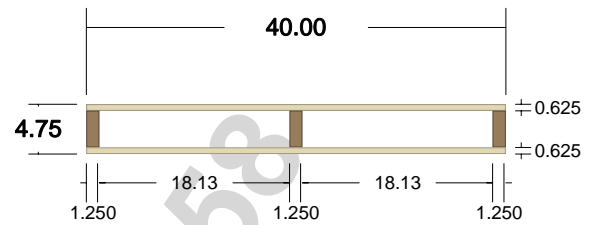
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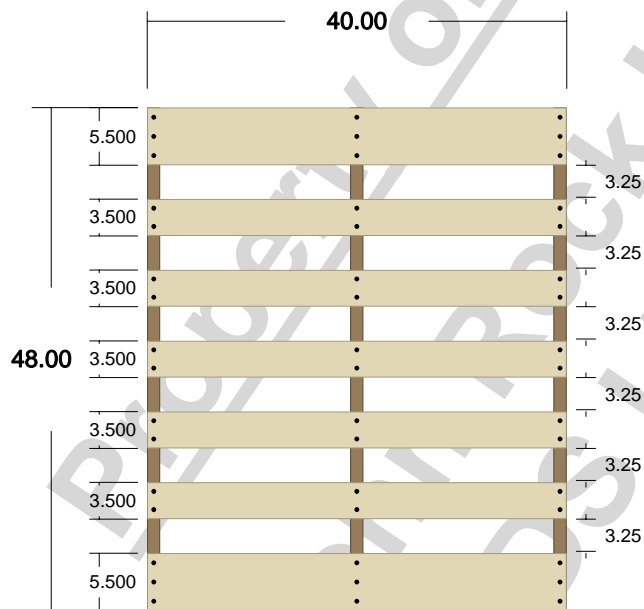
Side View



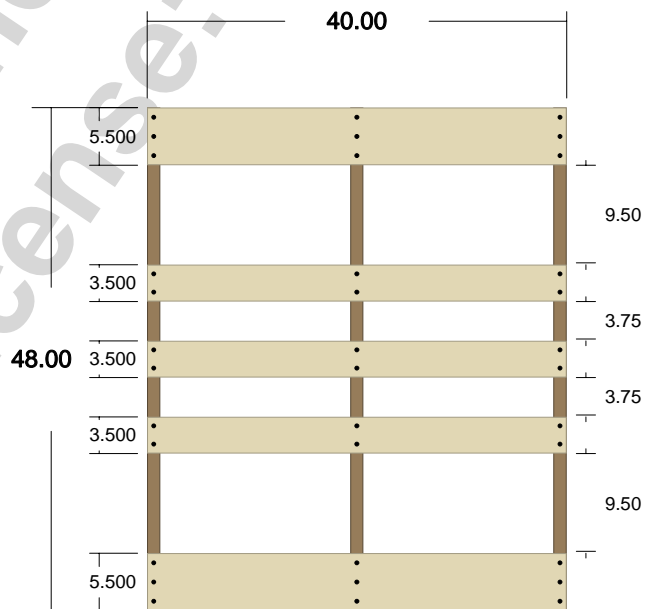
End View



Top View



Bottom View



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