

PALLET DESIGN SYSTEM Version 5.0

Pallet Specification Sheet

All dimensions in inches

Customer:

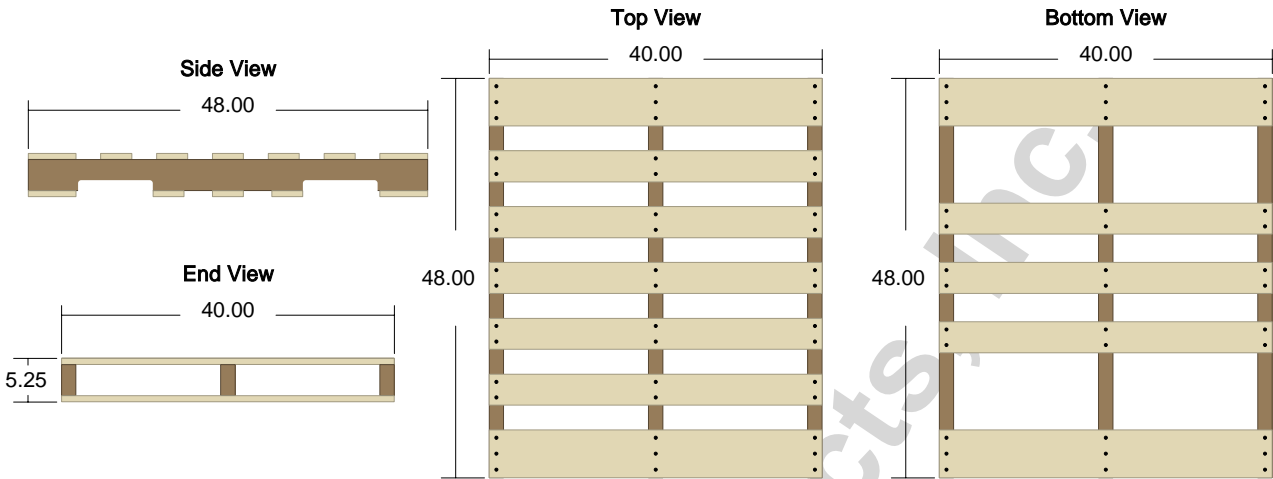
Customer in search of "The Total Pallet Solution"

Prepared by:

RCD Timber Products, Inc,
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302-778-5700
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PDS License: 209 Printed: May 15, 2012

Pallet ID: Generic Pallet Spec

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



Components

Top Deck:

Style: Deckboard Type: New Lumber

Number	Thickness	Width	Length
5	0.750	3.750	40.00
2	0.750	5.750	40.00

Volume: 6.3 bd ft

Bottom Deck:

Style: Deckboard Type: New Lumber

Number	Thickness	Width	Length
3	0.750	3.750	40.00
2	0.750	5.750	40.00

Volume: 4.7 bd ft

Stringers:

Type: New Lumber

Number	Width	Height	Length
3	1.750	3.750	48.00

Volume: 6.6 bd ft

Partial 4-way Entry Notch:

Depth: 1.250 Length: 9.00 Location: 6.00 Radius: 0.75

Materials

Fasteners:

Fastener ID:	2-1/4 x .112 SS
Fastener Type:	Helically Threaded Nail
Fastener Length:	2.25
Thread Length:	1.25
Thread Diameter:	0.128
Wire Diameter:	0.112
Head Diameter:	0.280
Flutes:	4
Helixes:	6.0
Pitch:	0.208
Thread Angle:	64
MIBANT Angle:	36
FWC:	2.69
Total Number:	84

New Lumber:

Lumber ID: Medium Density &Btr Mixed Hardwoods

Species Class	Grade	Lumber Mix
High Density Eastern Hardwoods	Standard &BTR	33 %
Eastern Oaks	Standard &BTR	33 %
Medium Density Eastern Hardwoods	Standard &BTR	34 %

Moisture Content (at manufacture and assembly): Green

Total New Lumber Volume: 17.6 bd ft

Spec Sheet Notes:

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Pallet Structural Analysis

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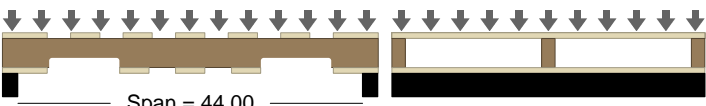
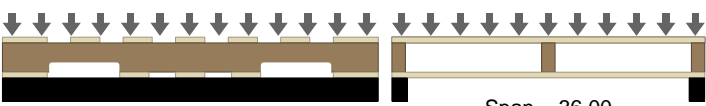
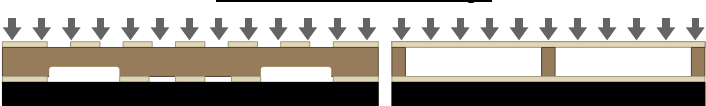
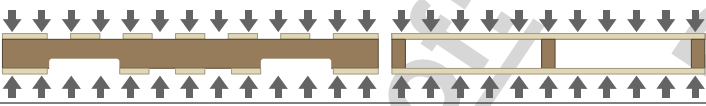

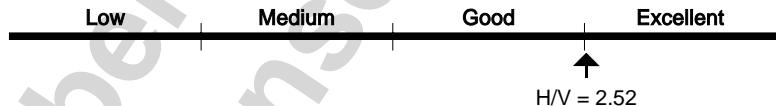
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General Load Type: Uniformly Distributed - Full Pallet Coverage

Unit Load Weight Variability: User-Specified

Weight Coefficient of Variation: 49.5 % Maximum to Average Weight Ratio: 2.15

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
Side View	End View					
Racked Across Length 2 Beam Support 		3174 lbs.	0.59 in.	0.50 in.	2062 lbs.	Center Stringer
Racked Across Width 2 Beam Support 		3239 lbs.	1.00 in.	0.50 in.	1229 lbs.	Interior Bottom Deckbd
Warehouse Storage Stacked 1 Unit Load High 		11822 lbs.	0.25 in.	----	----	Interior Top Deckboard
Stacked 4 Unit Loads High 		4378 lbs. per pallet	0.25 in.	----	----	Interior Bottom Deckbd
Lateral Collapse Resistance 						

Pallet Design System (PDS)

Developed and owned by:

National Wooden Pallet and Container Association (NWPCA)

Research and development for early versions of PDS were conducted in cooperation with:
 Center for Unit Load Design, 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	78 lbs.	56 lbs.	53 lbs.	51 lbs.	50 lbs.



Component	Original Dimension	Shrinkage from Manufacture to 19% MC	Shrinkage from Manufacture to 15% MC
Top Deckboards	0.750 in. Thickness	0.018 in. (+/- 0.005 in.)	0.026 in. (+/- 0.008 in.)
	3.750 in. Width	0.088 in. (+/- 0.027 in.)	0.128 in. (+/- 0.039 in.)
	5.750 in. Width	0.135 in. (+/- 0.042 in.)	0.196 in. (+/- 0.060 in.)
Stringers	3.750 in. Height	0.088 in. (+/- 0.027 in.)	0.128 in. (+/- 0.039 in.)
	1.750 in. Width	0.041 in. (+/- 0.013 in.)	0.060 in. (+/- 0.018 in.)
Bottom Deckboards	0.750 in. Thickness	0.018 in. (+/- 0.005 in.)	0.026 in. (+/- 0.008 in.)
	3.750 in. Width	0.088 in. (+/- 0.027 in.)	0.128 in. (+/- 0.039 in.)
	5.750 in. Width	0.135 in. (+/- 0.042 in.)	0.196 in. (+/- 0.060 in.)

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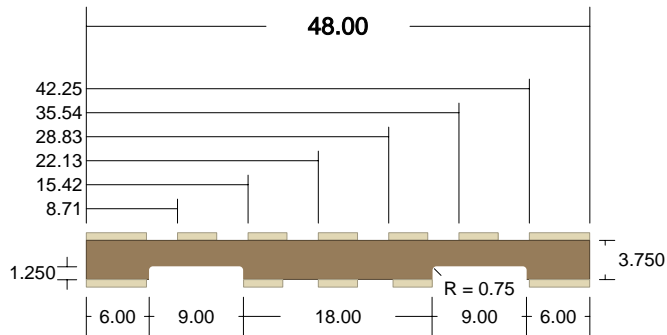
2-D Pallet Drawings

All dimensions in inches

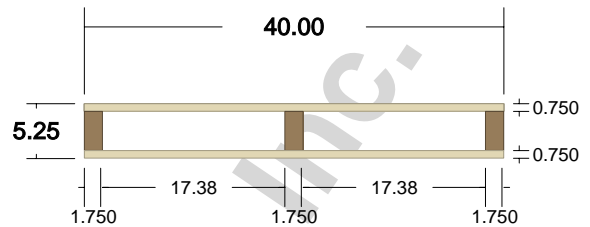
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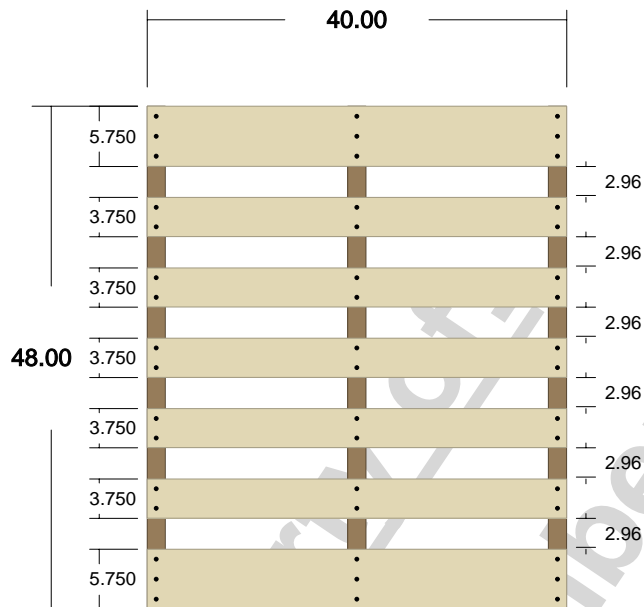
Side View



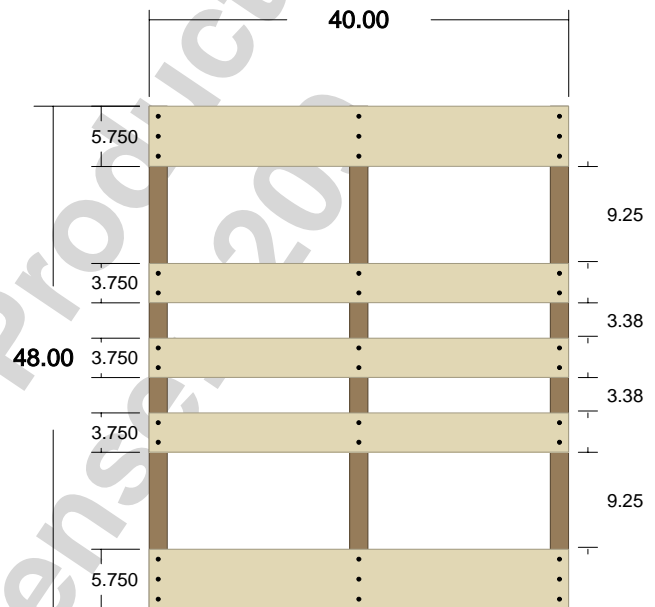
End View



Top View



Bottom View



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