Pallet Specification Sheet

All dimensions in millimeters

Materials

Customer:

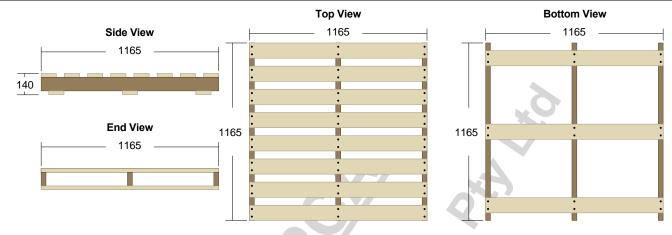
Prepared by:

Express Pallets & Crates

65-71 Boundary Road, Narangba, QLD 4504 PDS License: 790 Printed: May 31, 2018

Pallet ID: VP1165833HDSTD

Classification: 1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture



Components

Top Deck:

Style: Deckboard Type: New Lumber

 Number
 Thickness
 Width
 Length

 8
 25
 100
 1165

Volume: 0.0233 cubic meters

Bottom Deck:

Style: Deckboard Type: New Lumber

 Number
 Thickness
 Width
 Length

 3
 25
 100
 1165

Volume: 0.0087 cubic meters

Stringers:

Type: New Lumber

 Number
 Width
 Height
 Length

 3
 32
 90
 1165

Volume: 0.0101 cubic meters

Fasteners:

Fastener ID: 57X3.06

Fastener Type: Helically Threaded Nail

Fastener Length: 57
Thread Length: 38
Thread Diameter: 3.4
Wire Diameter: 7.2
Flutes: 2
Helixes: 4.1

Helixes: 4.1
Pitch: 9.3
Thread Angle: 60
MIBANT Angle: 35
FWC: 1.71

Total Number: 66

New Lumber:

Lumber ID: HOOP PINE

 Species Class
 Grade

 Chilean Radiata Pine
 Premium

 Moisture Content (at manufacture and assembly): Green

Total New Lumber Volume: 0.0421 cubic meters

Spec Sheet Notes:

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PALLET DESIGN SYSTEM Version 5.4 Pallet Structural Analysis

Customer:

Prepared by:

Express Pallets & Crates

PDS License: 790 Printed: May 31, 2018

Pallet ID: VP1165833HDSTD

Classification: 1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture

General Load Type: Uniformly Distributed - Full Pallet Coverage

Load Weight Variability: Medium

Service Environment: Dry Environment (EMC <= 19%)

Support Condition		Safe Maximum	Deflection at Maximum	User Specified Deflection	Maximum Load for Deflection	Critical Member or
<u>Side View</u>	End View	Load	Load	Limit		Connection
Racked Across Leng 2 Beam Support	th	0500 km	C		9	Center
— Span = 750 —	*******	2582 kg	6 mm			Stringer
Warehouse Storage Stacked 1 Unit Load Hig		4245 kg	8 mm	6 mm	NA	Interior Top Deckboard
Lateral Collapse Resistance	Low	Medium		Good	Excellent	

LCR Indicator = 0.70

Pallet Design System (PDS) <u>Developed and owned by:</u> 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 results from PDS are based on the NWPCA's continuing program of laboratory and field research. While the engineering outcomes reflected in the results are based on sound science, 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, and specifically disclaims any responsibility for such. Notwithstanding the history of the PDS system, users of the PDS system are strongly encouraged to undertake individual, unique analysis of the results as they then pertain to specific applications and the production process. 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, United States http://www.palletcentral.com
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PALLET DESIGN SYSTEM Version 5.4 Pallet Physical Property Analysis

Customer:

Prepared by:
Express Pallets & Crates
PDS License: 790 Printed: May 31, 2018

Pallet ID: VP1165833HDSTD

Classification: 1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture

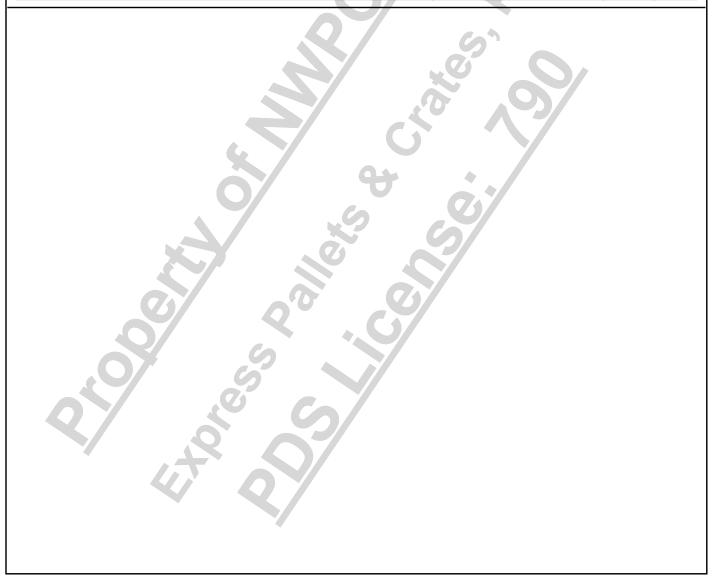
	At Manufacture	At 25% MC	At 19% MC	At 15% MC	At 12% MC
Average Pallet Weight	25 kg	21 kg	20 kg	19 kg	19 kg

Width Shrinkage

=Thickness Shrinkage

Dimensional Change due to Wood Drying

Component	Original Dimension	Shrinkage from Manufacture to 19% MC	Shrinkage from Manufacture to 15% MC
Top Deckboards	25 mm Thickness	0.5 mm (+/- 0.1 mm)	0.7 mm (+/- 0.2 mm)
	100 mm Width	1.9 mm (+/- 0.5 mm)	2.7 mm (+/- 0.7 mm)
Stringers	90 mm Height	1.7 mm (+/- 0.4 mm)	2.4 mm (+/- 0.6 mm)
	32 mm Width	0.6 mm (+/- 0.2 mm)	0.9 mm (+/- 0.2 mm)
Bottom Deckboards	25 mm Thickness	0.5 mm (+/- 0.1 mm)	0.7 mm (+/- 0.2 mm)
	100 mm Width	1.9 mm (+/- 0.5 mm)	2.7 mm (+/- 0.7 mm)

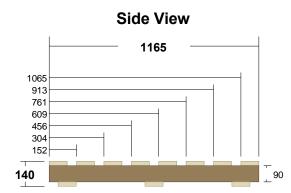


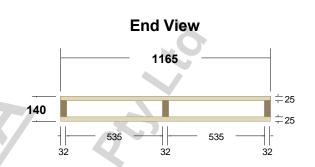
2-D Pallet Drawings

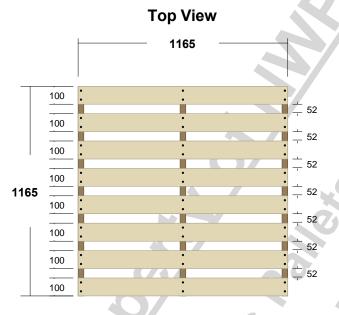
All dimensions in millimeters

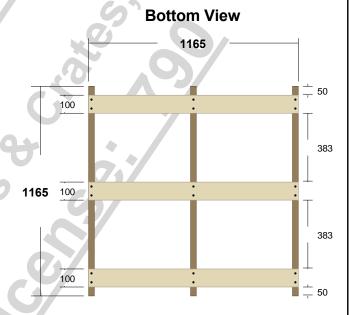
Pallet ID: VP1165833HDSTD

Classification: 1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture









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Customer:

Prepared by:

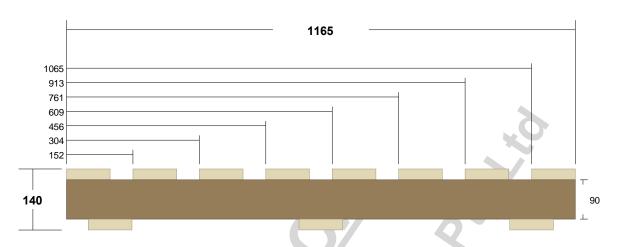
PALLET DESIGN SYSTEM Version 5.4 Pallet Drawing - Side and End View

All dimensions in millimeters

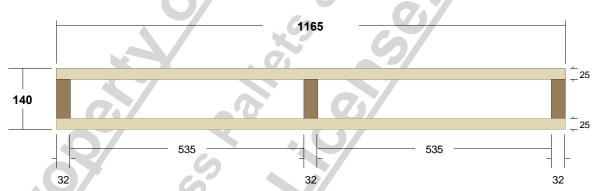
Pallet ID: VP1165833HDSTD

Classification: 1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture

Side View



End View



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Customer:

Prepared by:

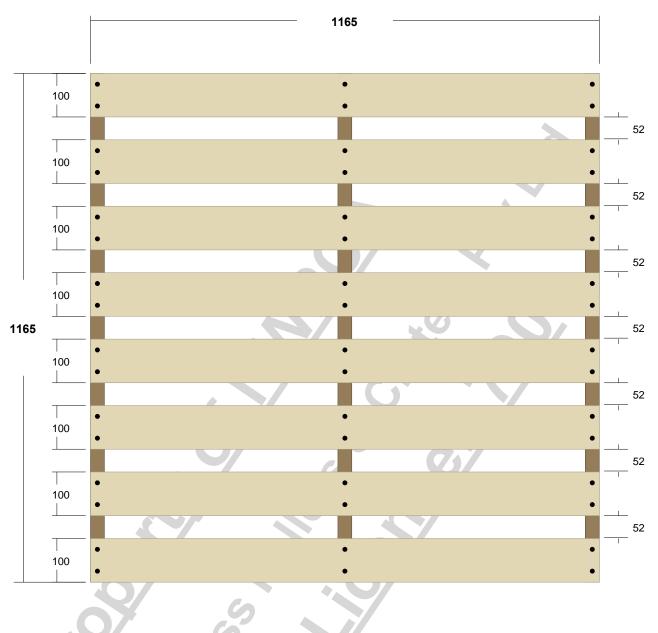
Pallet Drawing - Top View

All dimensions in millimeters

Pallet ID: VP1165833HDSTD

Classification: 1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture





Customer:

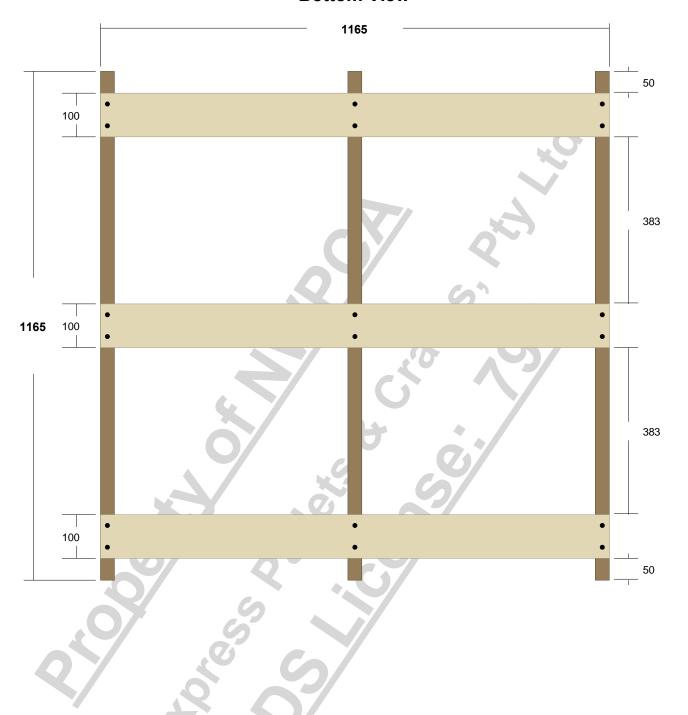
Prepared by:

Pallet Drawing - Bottom View

All dimensions in millimeters

Pallet ID: VP1165833HDSTD
Classification:1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture

Bottom View



Customer:

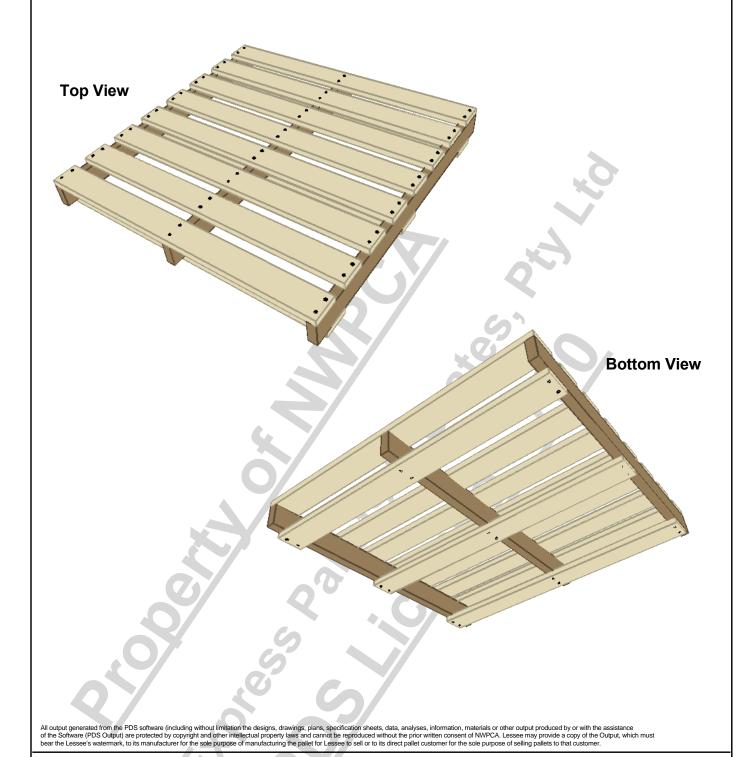
Prepared by:

3-D Pallet Drawings

All dimensions in millimeters

Pallet ID: VP1165833HDSTD

Classification: 1165 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture



Customer:

Prepared by: