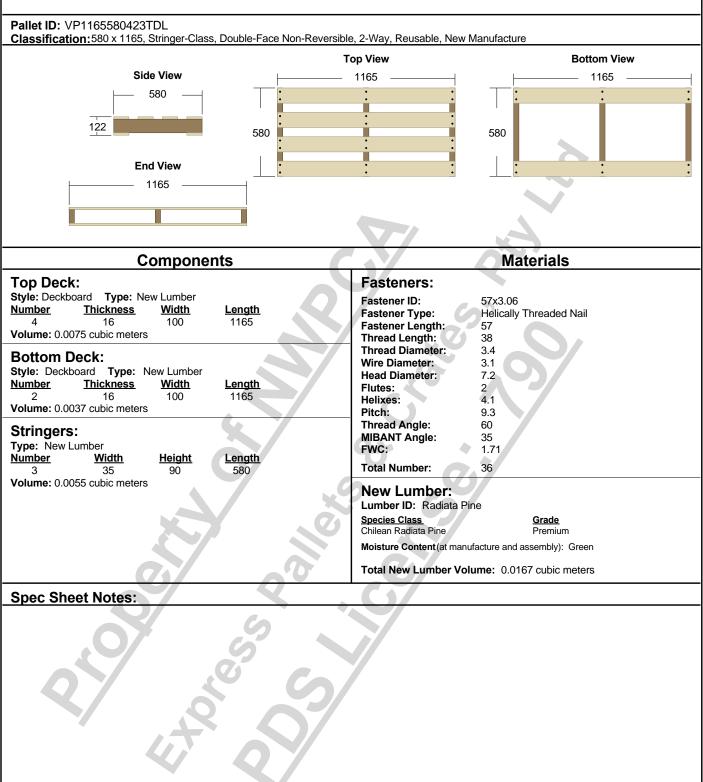
PALLET DESIGN SYSTEM Version 5.4 Pallet Specification Sheet

All dimensions in millimeters

Customer:

Prepared by:

Express Pallets & Crates Pty Ltd PDS License: 790 Printed: August 28, 2020



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PALLET DESIGN SYSTEM Version 5.4 **Pallet Structural Analysis**

Customer:

Prepared by:

Express Pallets & Crates Pty Ltd PDS License: 790 Printed: August 28, 2020

Pallet ID: VP1165580423TDL

Classification: 580 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	iow.	Safe Maximum	Deflection at Maximum	User Specified Deflection	Maximum Load for Deflection	Critical Member or Connection
		Load	Load	Limit	Limit	Connection
Warehouse Storage Stacked 1 Unit Load High	_	000 I	_		5	Interior
	* * * * * * *	862 kg	7 mm	6 mm	NA	Top Deckboard
Stacked 3 Unit Loads High	<u>ı</u>					Lead
	******	372 kg per pallet	7 mm	6 mm	NA	Top Deckboard
******	******					
Lateral Collapse Resistance	Low	Medium		Good	Excellent	
	†					

LCR Indic	cator = 0.42	
	G	
ò	Ð	<u>.</u>

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 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. Pallet Design System - Version 5.4 (C) Copyright 1985-2018 National Wooden Pallet and Container Association, 1421 Prince Street, Suite 340, Alexandria, Virginia 22314-2805, United States

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PALLET DESIGN SYSTEM Version 5.4 Pallet Physical Property Analysis

Customer:

Prepared by: Express Pallets & Crates Pty Ltd PDS License: 790 Printed: August 28, 2020

Pallet ID: VP1165580423TDL

Classification: 580 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	10 kg	8 kg	8 kg	8 kg	7 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	16 mm Thickness	0.3 mm (+/- 0.1 mm)	0.4 mm (+/- 0.1 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)	
	35 mm Width	0.7 mm (+/- 0.2 mm)	1.0 mm (+/- 0.3 mm)	
Bottom Deckboards	16 mm Thickness	0.3 mm (+/- 0.1 mm)	0.4 mm (+/- 0.1 mm)	
	100 mm Width	1.9 mm (+/- 0.5 mm)	2.7 mm (+/- 0.7 mm)	

PALLET DESIGN SYSTEM Version 5.4 2-D Pallet Drawings

All dimensions in millimeters

Pallet ID: VP1165580423TDL

Classification: 580 x 1165, Stringer-Class, Double-Face Non-Reversible, 2-Way, Reusable, New Manufacture

