

PALLET DESIGN SYSTEM Version 6.1

Pallet Specification Sheet

All dimensions in millimeters

Customer:

British Gypsum
Sherburn Site

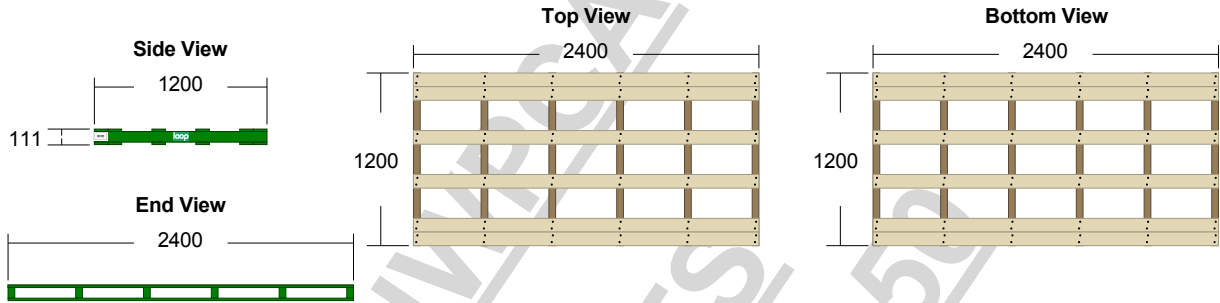
Prepared by:

Scott Pallets
Halbeath Interchange Business Park
Kingseat Rd
Halbeath, Dunfermline
KY11 8RY
PDS License: 150 Printed: July 02, 2020

Pallet ID: 1200 x 2400 - RED

Drawing Number: JDPL020720.1 **Specification Date:** July 02, 2020

Classification: 1200 x 2400, Stringer-Class, Double-Face Reversible, 2-Way, Reusable, New Manufacture



Components

Materials

Top Deck:

Style: Deckboard **Type:** New Lumber

Number	Thickness	Width	Length
6	18	95	2400

Volume: 0.0246 cubic meters
Staggered Top Deck Fastener Placement

Bottom Deck:

Style: Deckboard **Type:** New Lumber

Number	Thickness	Width	Length
6	18	95	2400

Volume: 0.0246 cubic meters
Staggered Bottom Deck Fastener Placement

Stringers:

Type: New Lumber

Number	Width	Height	Length
6	47	75	1200

Volume: 0.0254 cubic meters

Fasteners:

Fastener ID: 50 X 2.5
Fastener Type: Annularly Threaded Nail
Fastener Length: 50
Thread Length: 27
Thread Diameter: 2.6
Wire Diameter: 2.5
Head Diameter: 6.9
Rings: 34
Pitch: 0.8
MIBANT Angle: 72
FWC: 2.69
Total Number: 144

New Lumber:

Lumber ID:

Species Class	Grade	Lumber Mix
Common European Softwoods	Standard &BTR	70 %
Dense European Softwoods	Standard &BTR	30 %

Moisture Content(at manufacture and assembly): Green

Total New Lumber Volume: 0.0746 cubic meters

Spec Sheet Notes:

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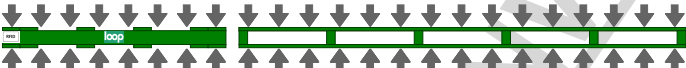

Pallet Structural Analysis

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General Load Type: Uniformly Distributed - Full Pallet Coverage
Load Weight Variability: Medium
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 or Connection	
Side View	End View						
Warehouse Storage Stacked 1 Unit Load High 		4698 kg	7 mm	----	----	Interior Top Deckboard	
Stacked 6 Unit Loads High 		1305 kg per pallet	7 mm	----	----	Interior Top Deckboard	
Lateral Collapse Resistance 		Horizontal Acceleration during transit (G-force)	0.5	1.0	2.0	3.0	4.0
		Vertical Load on Pallet (kg)	3131	1563	713	461	342

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.

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PALLET DESIGN SYSTEM Version 6.1
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	43.0 kg	35.8 kg	34.1 kg	33.0 kg	32.1 kg



Component	Original Dimension	Shrinkage from Manufacture to 19% MC	Shrinkage from Manufacture to 15% MC
Top Deckboards	18 mm Thickness	0.4 mm (+/- 0.1 mm)	0.5 mm (+/- 0.1 mm)
	95 mm Width	1.9 mm (+/- 0.5 mm)	2.7 mm (+/- 0.8 mm)
Stringers	75 mm Height	1.5 mm (+/- 0.4 mm)	2.1 mm (+/- 0.6 mm)
	47 mm Width	0.9 mm (+/- 0.3 mm)	1.3 mm (+/- 0.4 mm)
Bottom Deckboards	18 mm Thickness	0.4 mm (+/- 0.1 mm)	0.5 mm (+/- 0.1 mm)
	95 mm Width	1.9 mm (+/- 0.5 mm)	2.7 mm (+/- 0.8 mm)

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2-D Pallet Drawings

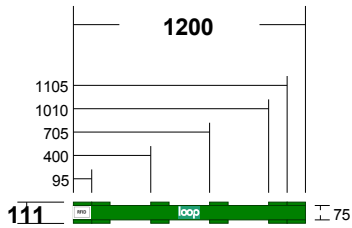
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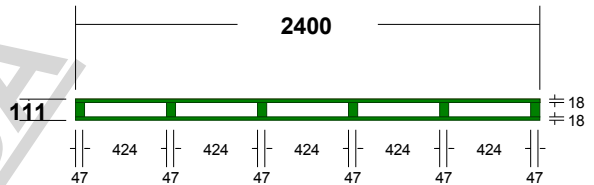
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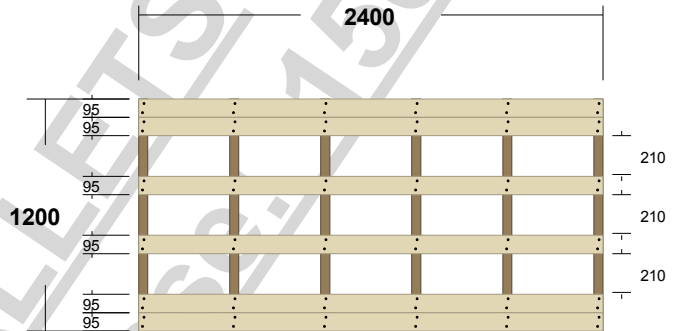
Side View



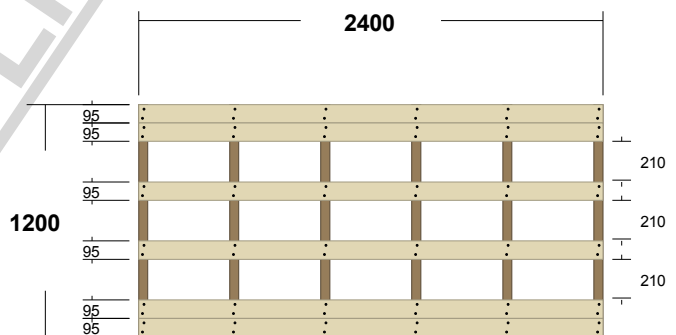
End View



Top View



Bottom View



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Pallet Drawing - Side and End View

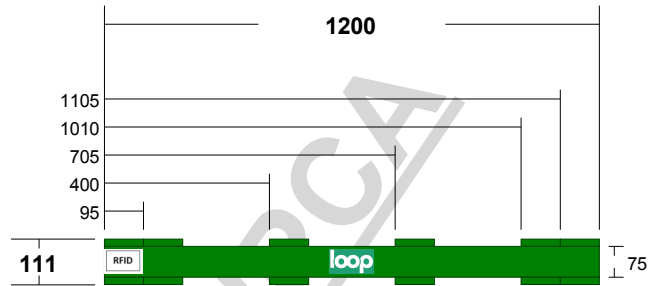
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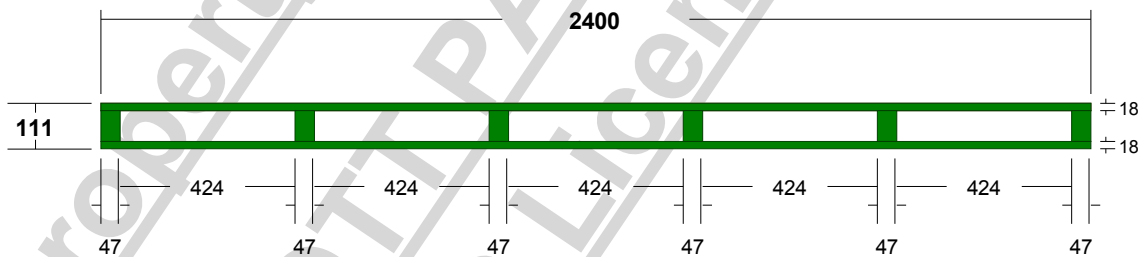
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Side View



End View



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Pallet Drawing - Top View

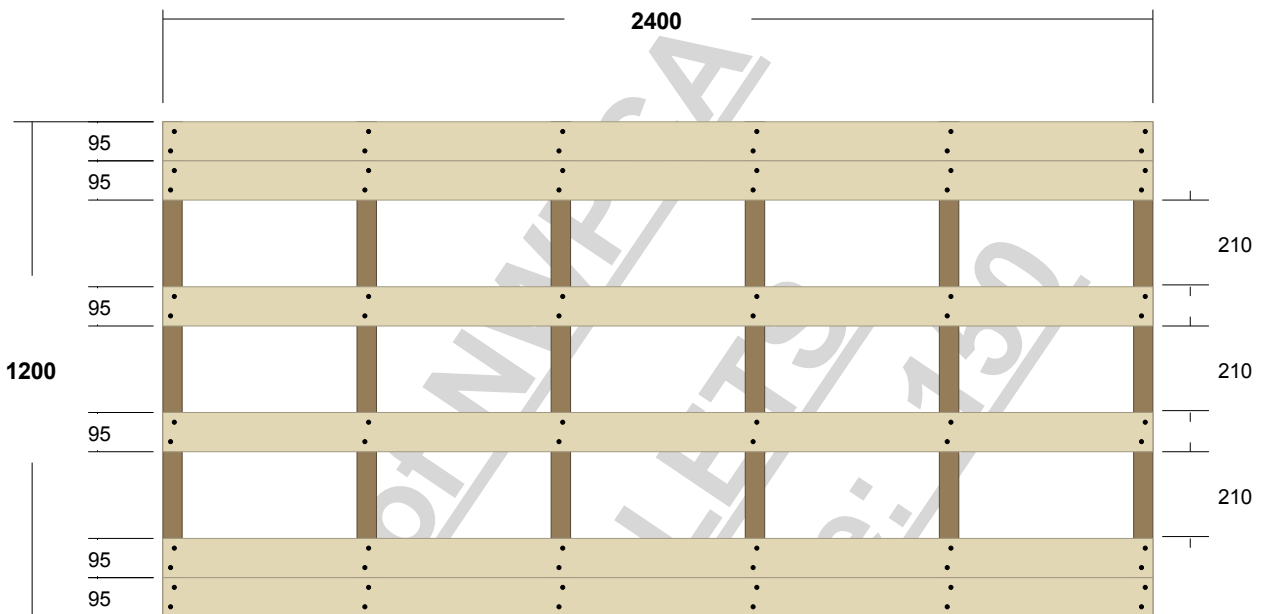
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Top View



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Pallet Drawing - Bottom View

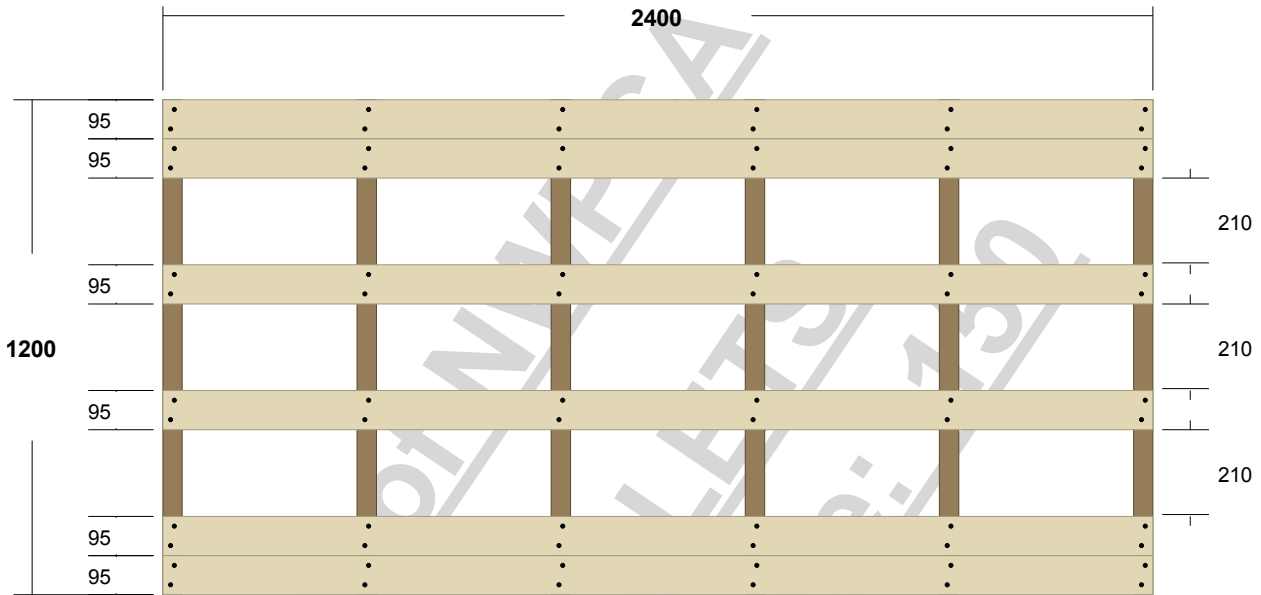
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Bottom View



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3-D Pallet Drawings

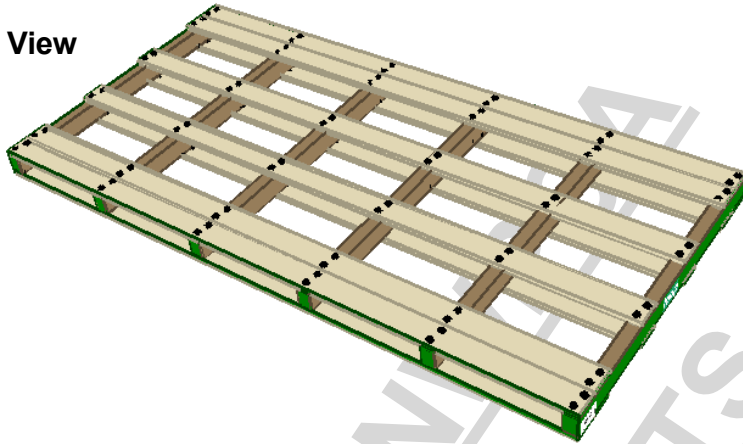
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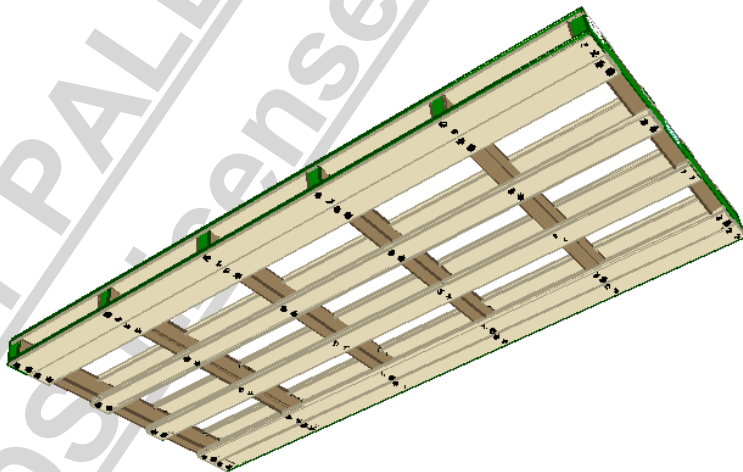
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Top View



Bottom View



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