

PALLET DESIGN SYSTEM Version 6.1

Pallet Specification Sheet

All dimensions in millimeters

Customer:

Loop

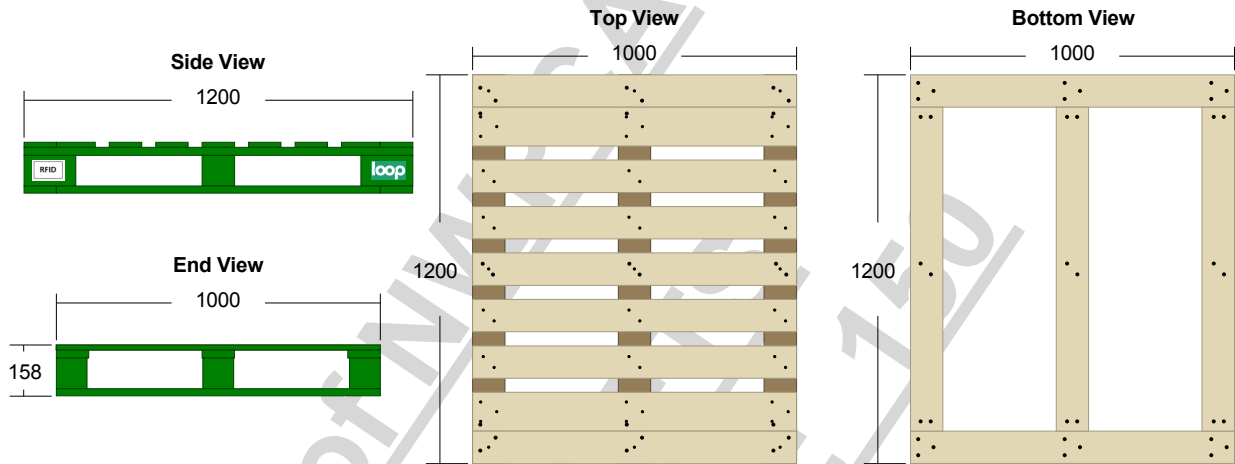
Prepared by:

Scott Pallets
Halbeath Interchange Business Park
Kingseat Rd
Halbeath, Dunfermline
KY11 8RY
PDS License: 150 Printed: July 08, 2020

Pallet ID: 1200 x 1000

Drawing Number: JD080720.1 Specification Date: July 07, 2020

Classification: 1200 x 1000, Block-Class, Double-Face Non-Reversible, Full 4-Way, Reusable, New Manufacture



Components

Top Deck:

Style: Deckboard/Stringerboard Type: New Lumber

Number	Thickness	Width	Length
7	16	100	1000
2	16	120	1000

Volume: 0.0150 cubic meters

Mat Assembly Method, Mat Fasteners Clinched

Bottom Deck:

Style: Perimeter Base Type: New Lumber

Number	Thickness	Width	Length
2	22	100	1000
3	22	100	1000

Volume: 0.0110 cubic meters

Top Stringerboards:

Type: New Lumber

Number	Thickness	Width	Length
3	25	100	1200

Volume: 0.0090 cubic meters

Blocks:

Type: Lumber Grain Orientation: Sidegrain Nailing

Number	Width	Length	Height
3	95	100	95
6	95	160	95

Volume: 0.0114 cubic meters

Materials

Fasteners:

	Mat	TD Block	BD Block
Fastener ID:	45 X 2.65	90 X 3.6	65 X 3.35
Fastener Type:	Plain	Annular	Annular
Fastener Length:	45	90	65
Thread Length:		63	46
Thread Diameter:		4.2	3.6
Wire Diameter:	2.5	3.6	3.4
Head Diameter:	6.5	8.4	7.5
Rings:		33	36
Pitch:		1.9	1.3
MIBANT Angle:	46	19	21
FWC:	1.00	7.29	3.45
Total Number:	51	24	36

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): Air Dry - 19%

Total New Lumber Volume: 0.0464 cubic meters

Spec Sheet Notes:

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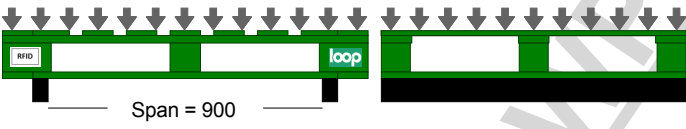
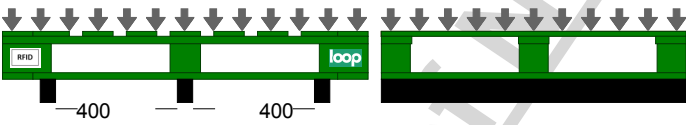
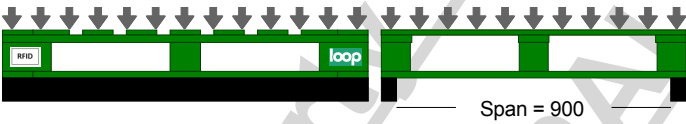
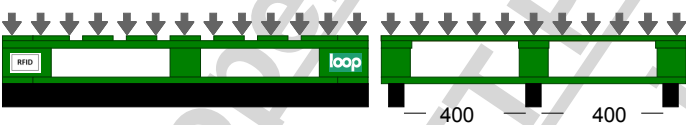
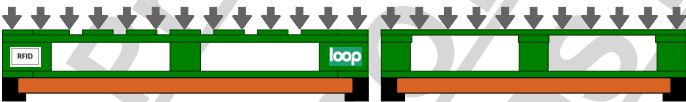
Pallet Structural Analysis (1/2)

Customer:
Loop

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General Load Type: Uniformly Distributed - Full Pallet Coverage
Load Weight Variability: High
Service Environment: Wet 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
<p>Racked Across Length</p> <p><u>2 Beam Support</u></p>  <p><u>3 Beam Support</u></p> 	1117 kg	20 mm	----	----	Interior Butted Board
<p>Racked Across Width</p> <p><u>2 Beam Support</u></p>  <p><u>3 Beam Support</u></p> 	1056 kg	30 mm	----	----	Outer Board
<p>Shelf Support</p> 	2433 kg	8 mm	----	----	Center Top Stringerboard
					Interior Top Deckboard

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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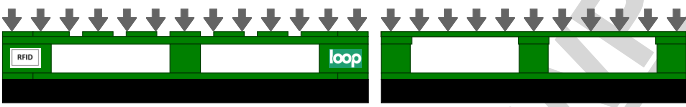
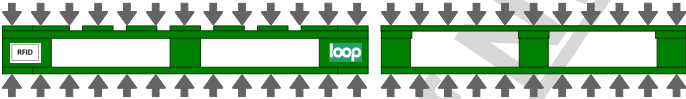
PALLET DESIGN SYSTEM Version 6.1
Pallet Structural Analysis (2/2)

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Load Weight Variability: High
Service Environment: Wet 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
<p style="text-align: center;">Warehouse Storage Stacked 1 Unit Load High</p> 	3400 kg	12 mm	----	----	Interior Top Deckboard
<p style="text-align: center;">Stacked 2 Unit Loads High</p> 	2125 kg per pallet	12 mm	----	----	Interior Top Deckboard

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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

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PALLET DESIGN SYSTEM Version 6.1

Pallet Physical Property Analysis

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Average Pallet Weight	At Manufacture			At 15% MC	At 12% MC
		22.4 kg			21.7 kg



Component	Original Dimension	Shrinkage from Manufacture to 19% MC	Shrinkage from Manufacture to 15% MC
Top Deckboards	16 mm Thickness 100 mm Width 120 mm Width		0.1 mm (+/- 0.0 mm) 0.9 mm (+/- 0.3 mm) 1.0 mm (+/- 0.3 mm)
Top Stringerboards	25 mm Thickness 100 mm Width		0.2 mm (+/- 0.1 mm) 0.9 mm (+/- 0.3 mm)
Blocks	95 mm Height 95 mm Width		0.8 mm (+/- 0.2 mm) 0.8 mm (+/- 0.2 mm)
Bottom Deckboards	22 mm Thickness 100 mm Outer Board Width 100 mm Butted Board Width		0.2 mm (+/- 0.1 mm) 0.9 mm (+/- 0.3 mm) 0.9 mm (+/- 0.3 mm)

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PALLET DESIGN SYSTEM Version 6.1

2-D Pallet Drawings

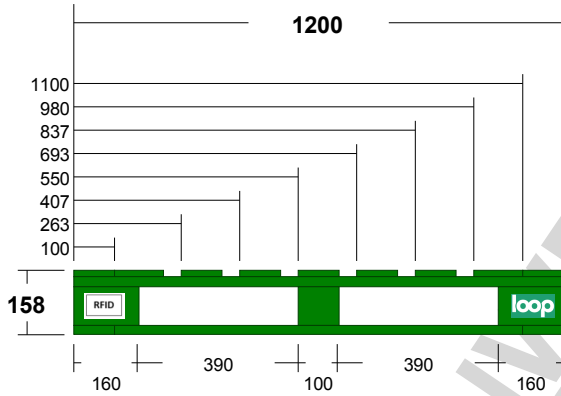
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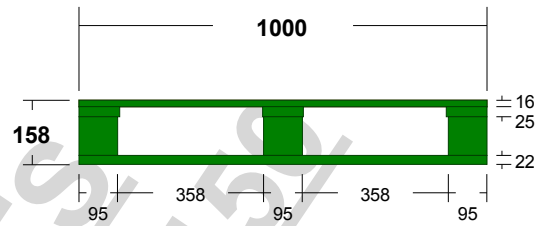
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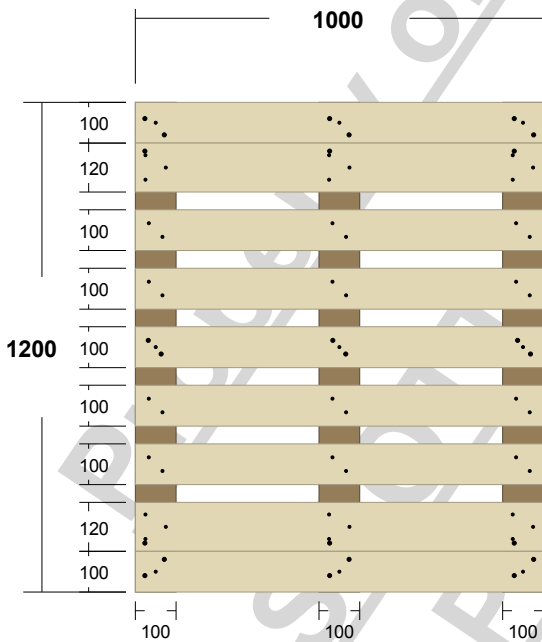
Side View



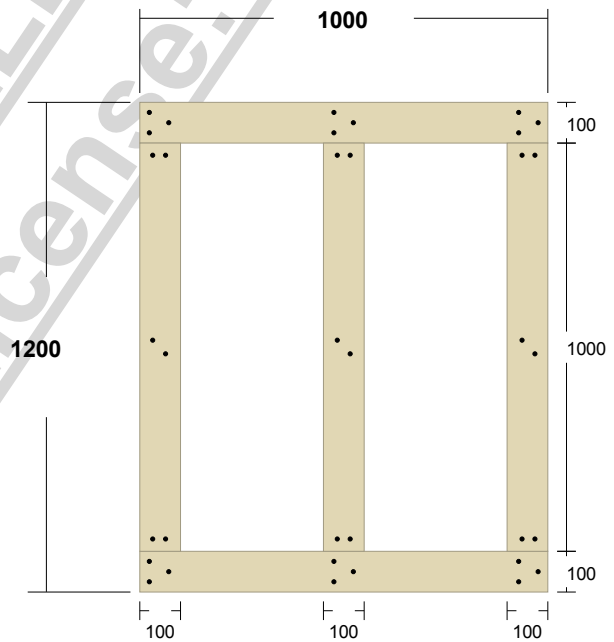
End View



Top View



Bottom View



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Pallet Drawing - Side and End View

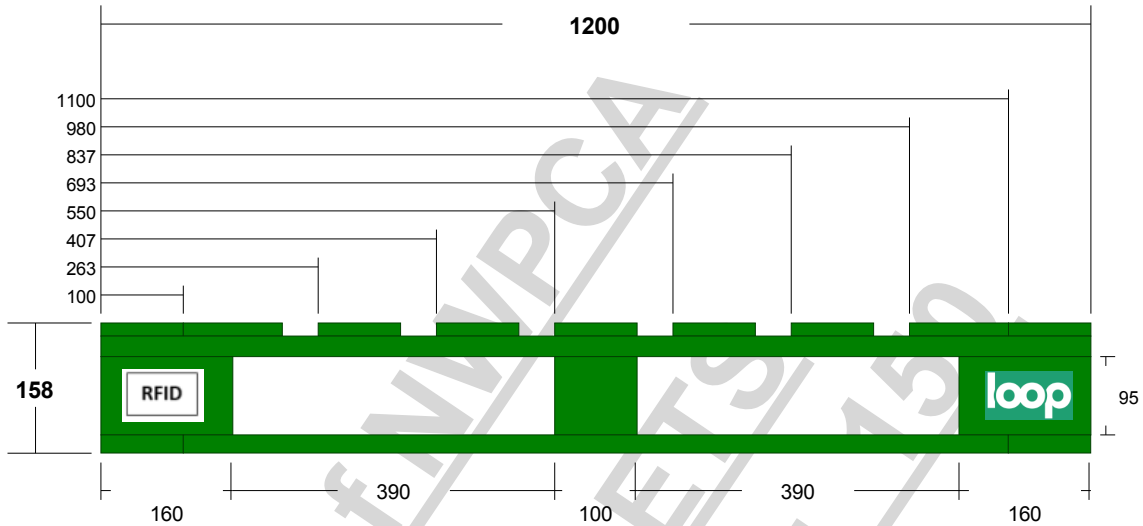
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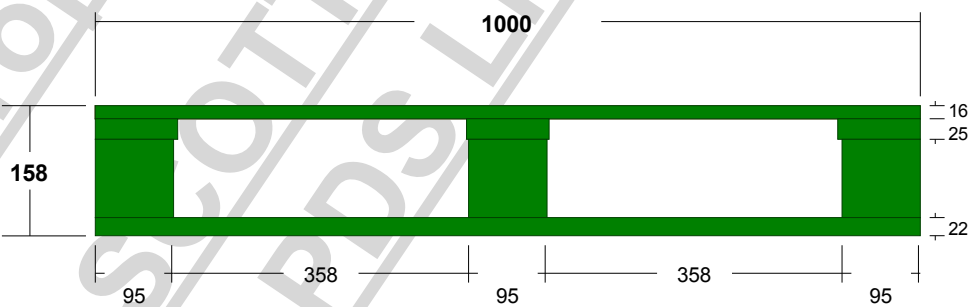
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Side View



End View



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Pallet Drawing - Top View

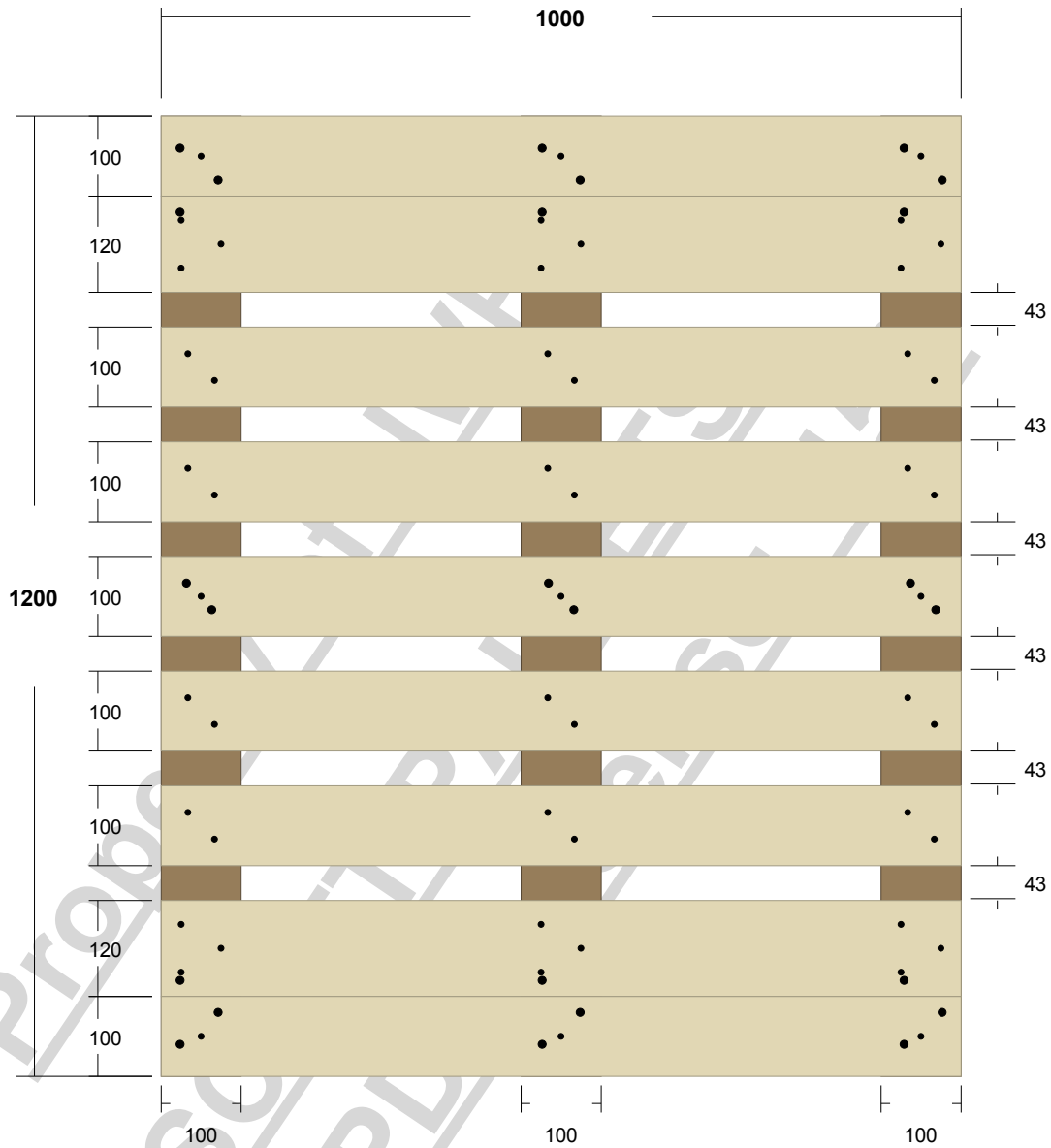
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Top View



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Pallet Drawing - Bottom View

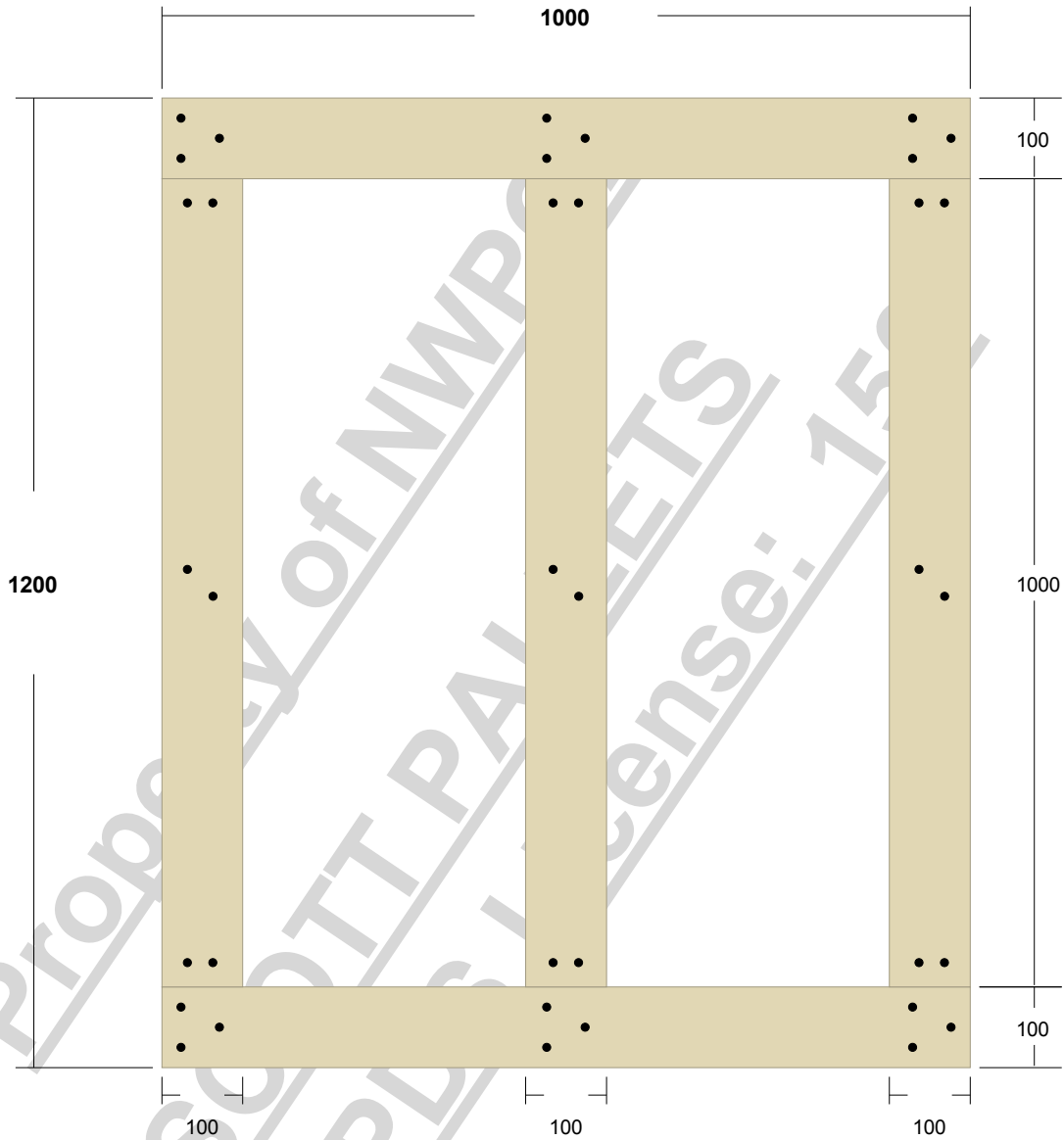
All dimensions in millimeters

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Bottom View



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