Pallet Specification Sheet

All dimensions in inches

Customer:

GMA User

Prepared by:

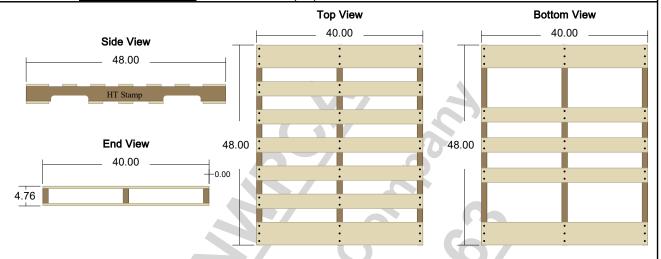
Hinchcliff Products Co. 13550 Falling Water Road Strongsville, OH 44136

Phone: 440-238-5200 Fax: 440-238-5202 E-Mail: sales@hinchcliffproducts.com PDS License: 63 Printed: April 15, 2021

Pallet ID: 48x40 GMA

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

Pallet Treatments: ISPM-15 Compliance: Heat Treatment (HT)



Components

Гο	p	D	e	ck	•	:

 Style:
 Deckboard
 Type:
 New Lumber

 Number
 Thickness
 Width
 Length

 5
 0.630
 3.500
 40.00

 2
 0.630
 5.500
 40.00

Volume: 5.0 bd ft

Bottom Deck:

 Style:
 Deckboard
 Type:
 New Lumber

 Number
 Thickness
 Width
 Length

 3
 0.630
 3.500
 40.00

 2
 0.630
 5.500
 40.00

Volume: 3.8 bd ft

Stringers:

Type: New Lumber

 Number
 Width
 Height
 Length

 3
 1.380
 3.500
 48.00

Volume: 4.8 bd ft

Partial 4-way Entry Notch:

Depth: 1.380 Length: 9.00 Location: 6.00 Radius: 1.50

Fasteners:

Fastener ID: 2" Machine Nail
Fastener Type: Helically Threaded Nail
Fastener Length: 2.00

Thread Length: 1.33 Thread Diameter: 0.137 Wire Diameter: 0.120 **Head Diameter:** 0.281 Flutes: 4 Helixes: 8.0 Pitch: 0.166 Thread Angle: 57 **MIBANT Angle:** 28 FWC: 3.25 **Total Number:** 84

New Lumber:

Lumber ID: Mixed Hardwood

 Species Class
 Grade
 Lumber Mix

 High Density Eastern Hardwoods
 Standard &BTR
 30 %

 Yellow Poplar
 Standard &BTR
 10 %

 Eastern Oaks
 Standard &BTR
 60 %

Materials

Moisture Content (at manufacture and assembly): Green

Total New Lumber Volume: 13.6 bd ft

Spec Sheet Notes:

All output generated from the PDS software (including without limitation the designs, drawings, plans, specification sheets, data, analyses, information, materials or other output produced by or with the assistance of the Software (PDS Output) are protected by copyright and other intellectual property laws and cannot be reproduced without the prior written consent of NWPCA. Lessee may provide a copy of the Output, which must bear the Lessee's watermark, to its manufacturer for the sole purpose of selling pallets to that customer.

Pallet Structural Analysis

Customer: GMA User

Prepared by:

Hinchcliff Products Co.

PDS License: 63 Printed: April 15, 2021

Pallet ID: 48x40 GMA

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

Pallet Treatments: <u>ISPM-15 Compliance:</u> Heat Treatment (HT)

General Load Type: Uniformly Distributed - Full Pallet Coverage

Load Weight Variability: Low

Service Environment: Wet Environment (EMC > 19%)

Support Condition	,	Safe Maximum	Deflection at Maximum	User Specified Deflection	Maximum Load for Deflection	Critical Member or
Side View E	nd View	Load	Load	Limit	Limit	Connection
Racked Across Length 3 Beam Support	*****	5243 lbs.	0.28 in.			Interior Top Deckboard
21.00 21.00			S			
Racked Across Width 3 Beam Support	0	4447 lb a	0 24 in			Interior Top
HT Stamp	17.00 —	4447 lbs.	0.21 in.	<u>?</u>		Deckboard
Forklift Support Enter and Lift from Pallet End	i	7251 lbs.	0.45 in.			Interior Top Deckboard
HT Stamp 48.00	23.00	7251 IDS.	0.45 In.			Deckboard
Warehouse Storage Stacked 1 Unit Load High	37	6268 lbs.	0.28 in.			Interior Top Deckboard
HT Stamp		0200 lbs.	0.20 III.			Interior
Stacked 3 Unit Loads High	++++++	3214 lbs. per pallet	0.28 in.			Top Deckboard
HT Stamp	****	pei pallet				
Lateral Collapse Resistance	Low	Medium	n (Good	Excellent	
	6/	1		LCR Indic	ator = 2.81	

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 6.2 Pallet Physical Property Analysis

Customer:

GMA User

Prepared by:

Hinchcliff Products Co.
PDS License: 63 Printed: April 15, 2021

Pallet ID: 48x40 GMA

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

Pallet Treatments: <u>ISPM-15 Compliance</u>: Heat Treatment (HT)

	At Manufacture	At 25% MC	At 19% MC	At 15% MC	At 12% MC
Average Pallet Weight	59 lbs.	43 lbs.	41 lbs.	39 lbs.	38 lbs.

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	0.630 in. Thickness	0.015 in. (+/- 0.005 in.)	0.022 in. (+/- 0.007 in.)
	3.500 in. Width	0.084 in. (+/- 0.027 in.)	0.122 in. (+/- 0.039 in.)
	5.500 in. Width	0.132 in. (+/- 0.043 in.)	0.191 in. (+/- 0.062 in.)
Stringers	3.500 in. Height	0.084 in. (+/- 0.027 in.)	0.122 in. (+/- 0.039 in.)
	1.380 in. Width	0.033 in. (+/- 0.011 in.)	0.048 in. (+/- 0.016 in.)
Bottom Deckboards	0.630 in. Thickness	0.015 in. (+/- 0.005 in.)	0.022 in. (+/- 0.007 in.)
	3.500 in. Width	0.084 in. (+/- 0.027 in.)	0.122 in. (+/- 0.039 in.)
	5.500 in. Width	0.132 in. (+/- 0.043 in.)	0.191 in. (+/- 0.062 in.)



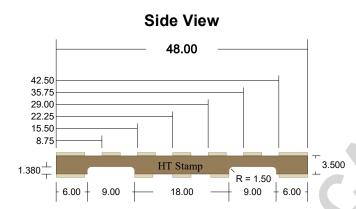
2-D Pallet Drawings

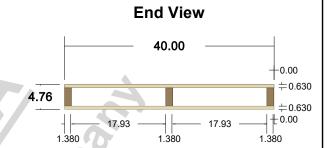
All dimensions in inches

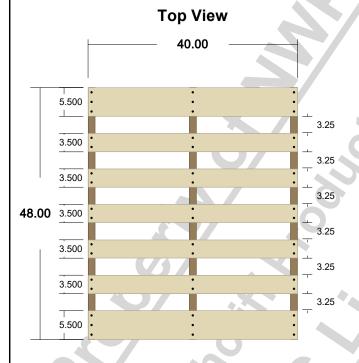
Pallet ID: 48x40 GMA

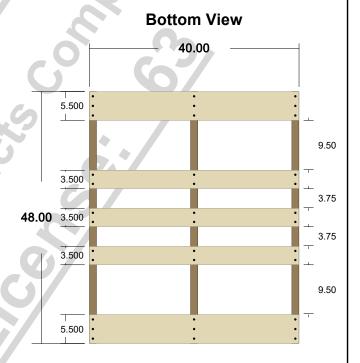
Classification: 48.00 x 40.00, Stringer-Class, Double-Face Non-Reversible, Partial 4-Way, Reusable, New Manufacture

Pallet Treatments: ISPM-15 Compliance: Heat Treatment (HT)









All output generated from the PDS software (including without limitation the designs, drawings, plans, specification sheets, data, analyses, information, materials or other output produced by or with the assistance of the Software (PDS Output) are protected by copyright and other intellectual property laws and cannot be reproduced without the prior written consent of NWPCA. Lessee may provide a copy of the Output, which must bear the Lessee's watermark, to its manufacturer for the sole purpose of manufacturing the pallet for Lessee to sell or to its direct pallet customer for the sole purpose of selling pallets to that customer.

Customer:

GMA User

Prepared by:

Hinchcliff Products Co. 13550 Falling Water Road Strongsville, OH 44136

PALLET DESIGN SYSTEM Version 6.2 Pallet Drawing - Side and End View

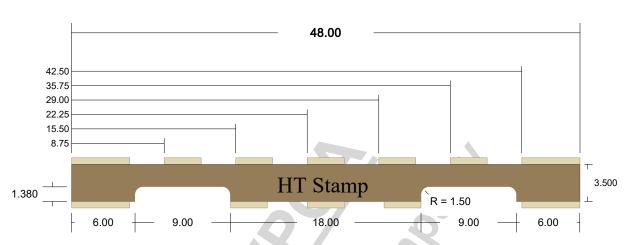
All dimensions in inches

Pallet ID: 48x40 GMA

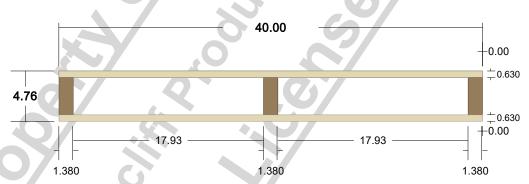
Classification: 48.00 x 40.00, Stringer-Class, Double-Face Non-Reversible, Partial 4-Way, Reusable, New Manufacture

Pallet Treatments: ISPM-15 Compliance: Heat Treatment (HT)





End View



All output generated from the PDS software (including without limitation the designs, drawings, plans, specification sheets, data, analyses, information, materials or other output produced by or with the assistance of the Software (PDS Output) are protected by copyright and other intellectual property laws and cannot be reproduced without the prior written consent of NWPCA. Lessee may provide a copy of the Output, which must bear the Lessee's watermark, to its manufacturer for the sole purpose of manufacturing the pallet for Lessee to sell or to its direct pallet customer for the sole purpose of selling pallets to that customer.

Customer:

GMA User

Prepared by:

Hinchcliff Products Co. 13550 Falling Water Road Strongsville, OH 44136

Pallet Drawing - Top View

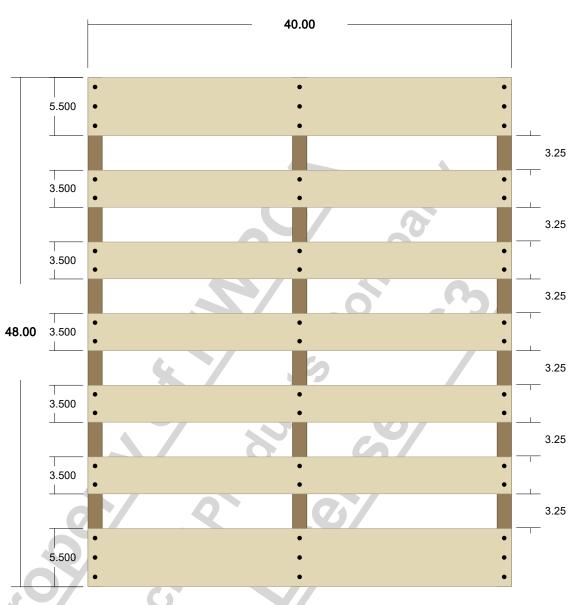
All dimensions in inches

Pallet ID: 48x40 GMA

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

Pallet Treatments: <u>ISPM-15 Compliance:</u> Heat Treatment (HT)





Customer:

GMA User

Prepared by:

Hinchcliff Products Co. 13550 Falling Water Road Strongsville, OH 44136

Pallet Drawing - Bottom View

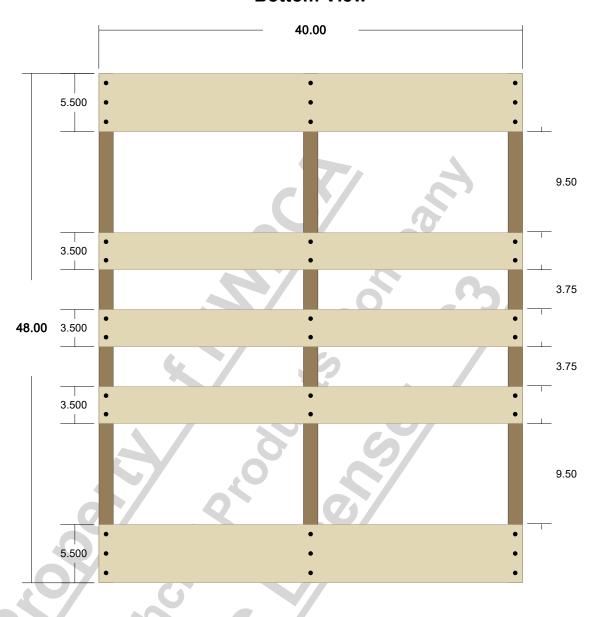
All dimensions in inches

Pallet ID: 48x40 GMA

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

Pallet Treatments: ISPM-15 Compliance: Heat Treatment (HT)

Bottom View



Customer:

GMA User

Prepared by:

Hinchcliff Products Co. 13550 Falling Water Road Strongsville, OH 44136

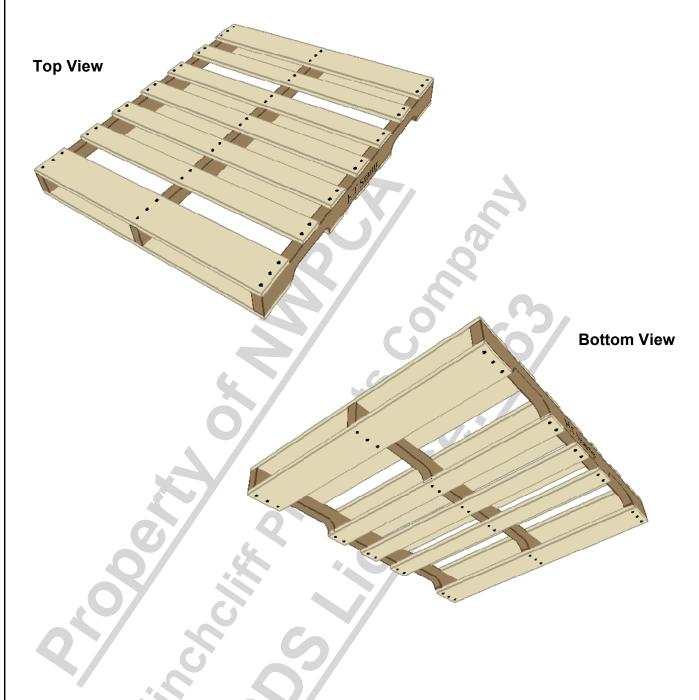
3-D Pallet Drawings

All dimensions in inches

Pallet ID: 48x40 GMA

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

Pallet Treatments: ISPM-15 Compliance: Heat Treatment (HT)



All output generated from the PDS software (including without limitation the designs, drawings, plans, specification sheets, data, analyses, information, materials or other output produced by or with the assistance of the Software (PDS Output) are protected by copyright and other intellectual property laws and cannot be reproduced without the prior written consent of NWPCA. Lessee may provide a copy of the Output, which must bear the Lessee's watermark, to its manufacturer for the sole purpose of manufacturing the pallet for Lessee to sell or to its direct pallet customer for the sole purpose of selling pallets to that customer.

Customer:

GMA User

Prepared by: Hinchcliff Products Co. 13550 Falling Water Road Strongsville, OH 44136