



## LX40B

### Technical Specification Sheet & Installation Guide



### **pointGUARD<sup>®</sup> Pallet Protection Products**

*A division of*

*United Pallet Services, Inc.*

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*Questions regarding installation or pallet specifications should be directed to:*

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# **Pre-Installation:**

Before the start of the installation process, please note:

- The LX40B pointGUARD® Pallet Protector was designed to be installed on a new manufactured wooden pallet that meets our pallet specifications. Retrofitting on an existing pallet is not an option.
- The design of the pallet (lumber positioning, thickness of lumber, etc.) is crucial for an accurate fit. The recommended specifications are outlined in this guide and should be closely followed. Although there are some modifications that can be made to the pallet without impacting proper attachment of the LX40B, we advise calling our office to discuss before any modifications are made.
- We recommend providing a copy of this Guide to your pallet manufacturer. A PDS® (*Pallet Design System*®) Pallet Specification Sheet can be provided to you at no charge by calling our office at (209) 538-5844.
- Kiln-Dried lumber should be used when manufacturing the pallet due to the reduction in moisture content as the lumber dries out over time. This is noted in the *TECHNICAL SPECIFICATION - Pallet* section, but is being noted here as well due to its importance. Failure to do so can leave a gap between the wood and the plastic (which will decrease the effectiveness of the pallet protector) or can cause the protector to be exposed above or below the pallet.
- It is possible to only install an LX40B on one end of the pallet if, once the unit load is in position; the pallet is only handled from one end before the pallet is relieved of the product.

# Wood Pallet (Block) Glossary of Terms:

**A - 1x6** Piece of lumber measuring 6" (nom) in width

**B - 1x4** Piece of lumber measuring 4" (nom) in width

**C – Pallet Stringer** The three 1x6x48" (nom) pieces of lumber running the length of the pallet that lay just underneath the top deck<sup>K</sup>

**D – Block** Piece of lumber that creates spacing between pallet stringers<sup>C</sup> and bottom deck<sup>E</sup> of pallet for forklift accessibility

**E - Bottom Deck** Bottom area of pallet that touches the floor

**F - Bottom Lead Board** Piece of lumber on the bottom and at the very front or back of the pallet

**G - End of the Stringer** End of the 1x6 pallet stringer

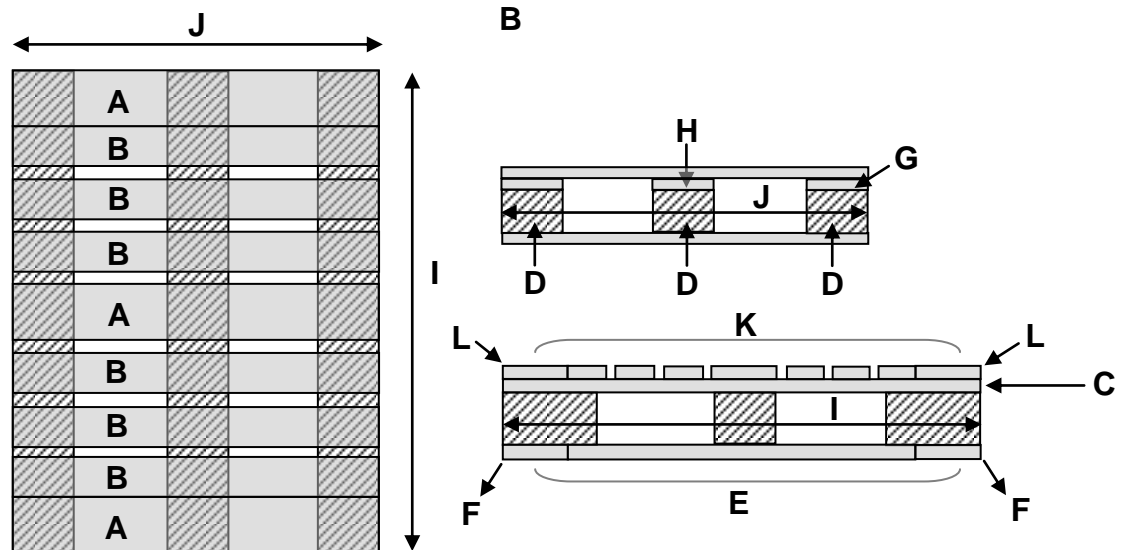
**H - Middle Stringer** The very middle 1x6 pallet stringer

**I - Pallet Length** The overall length of the pallet

**J - Pallet Width** The overall width of the pallet

**K - Top Deck** Top area of pallet where the footprint of the product will rest

**L - Top Lead Board** Piece of lumber on the top and at the very front or back of the pallet



*NOTE: Pallet terms on this page are noted in the installation steps as superscript*

**Example...** "Top lead board<sup>L</sup> must be flush with the pointGUARD protector"

# Technical Specifications—LX40B:

**Description:**

Plastic pallet protector for wood pallets

**Application:**

Made to fit a heavy duty block pallet with a width of 40"

**Physical Properties:**

100% Virgin Polypropylene with UV Inhibitor\*

**Measurements:**

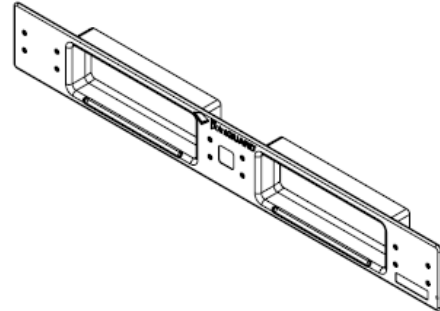
39.50" WIDE x 5.22" TALL x 0.25" THICK (wall)

**Attaches to pallet with:**

(12 per side, 24 total for pallet) 2" #8 wood screws

**Weight:**

1.8 lbs. each/3.6 lbs. for the set



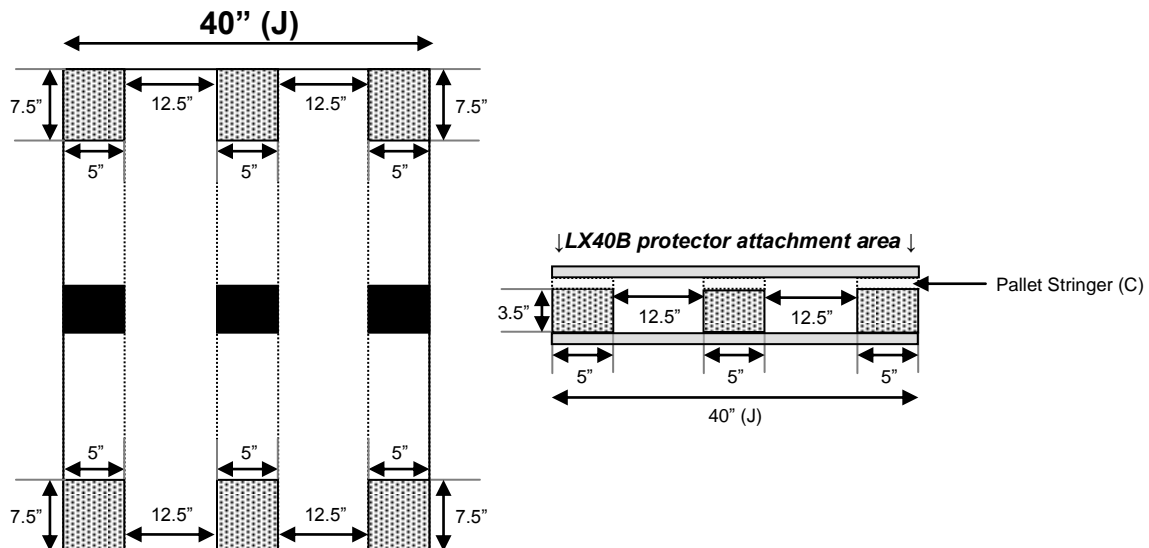
\* UV Inhibitor information available by contacting our office

# Technical Specifications —PALLET:

*The pallet must be manufactured to the following specs so that the plastic protector will fit accurately. Failure to adhere to this specification information will result in an incorrect attachment and loss of complete protection for the pallet.*

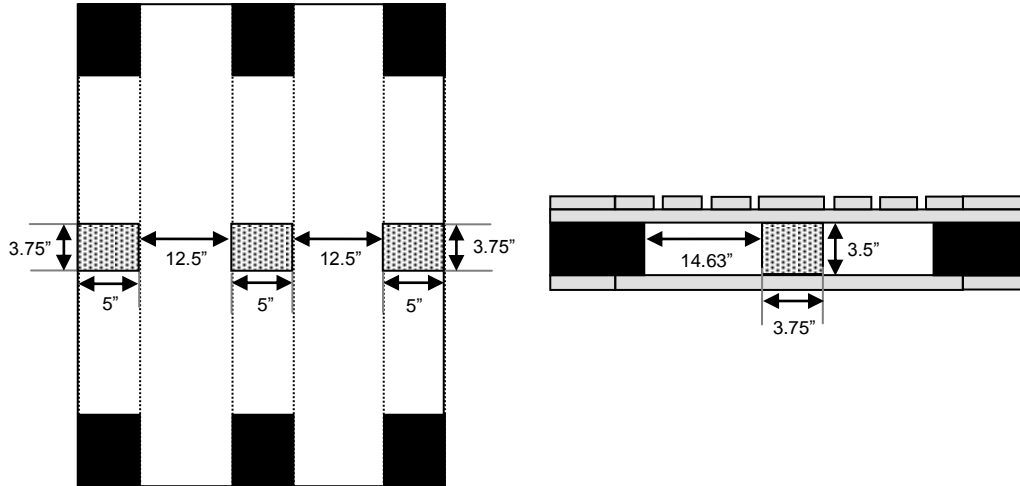
**Outside Block<sup>D</sup> Dimensions / Placement:**

- (6) 4" x 6" (nom) Blocks<sup>D</sup>
- Width 5", Height 3.5", Length 7.5" / Placed evenly apart (12.5" between blocks<sup>D</sup>)
- RECOMMENDATION: KILN-DRIED TO PREVENT SHRINKAGE



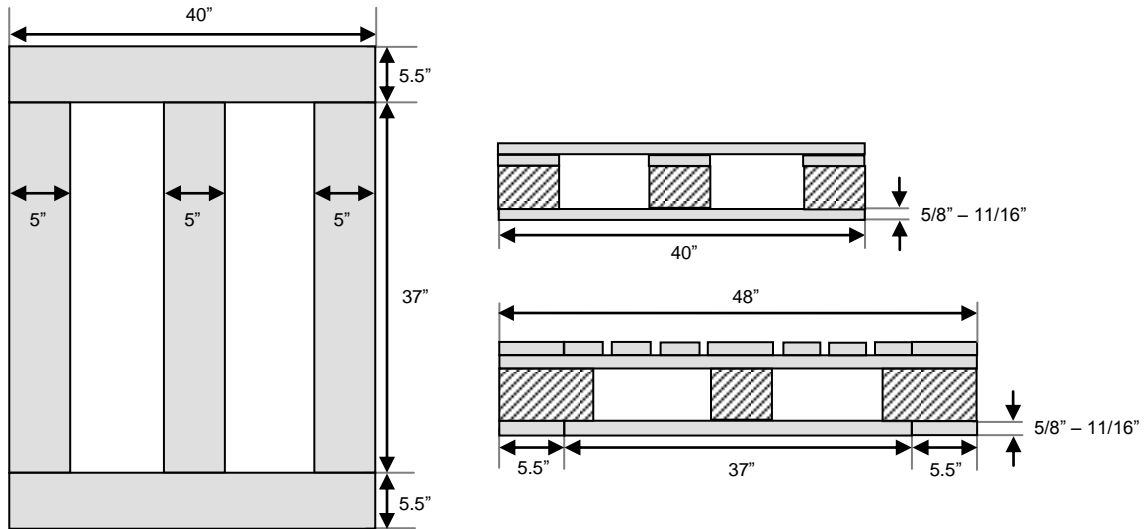
**Middle Block<sup>D</sup> Dimensions / Placement:**

- (3) 4" x 6" (nom) Blocks<sup>D</sup>
- Width 5", Height 3.5", Length 3.75" / Placed evenly apart (12.5" between blocks<sup>D</sup>)
- RECOMMENDATION: KILN-DRIED TO PREVENT SHRINKAGE



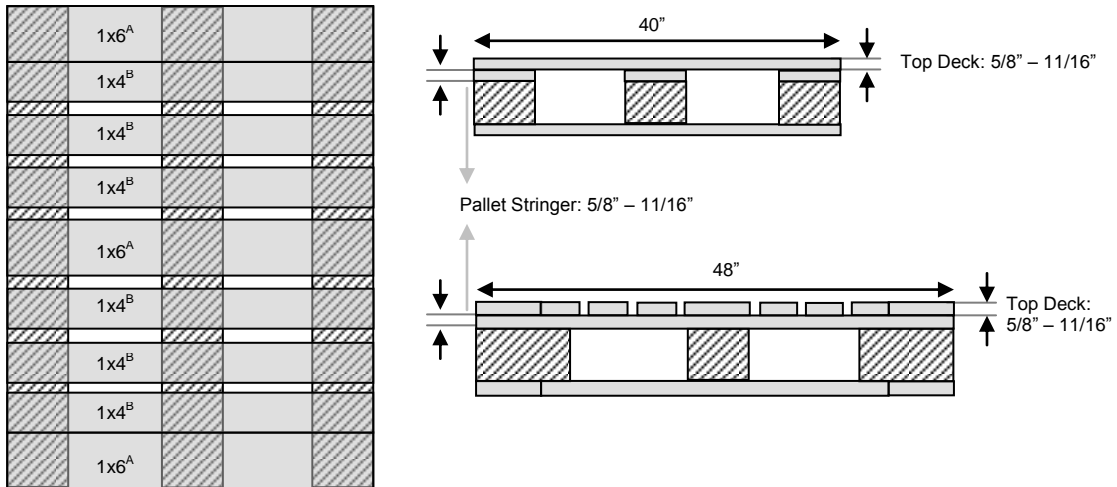
**Bottom Deck<sup>E</sup> Dimensions / Placement:**

- (2) 1x6x40" (nom) (5.5" Wide) Lead Boards<sup>F</sup> / (3) 1x5x37" Interior Boards
- THICKNESS: Target 5/8" - 11/16"
- RECOMMENDATION: KILN-DRIED TO PREVENT SHRINKAGE



### Top Deck<sup>K</sup> / Pallet Stringer<sup>C</sup> Dimensions / Placement:

- TOP DECK<sup>K</sup>: (3) 1x6x40" (nom) (5.5" Wide) Lead Boards<sup>L</sup>
- TOP DECK<sup>K</sup>: (6) 1x4x40" (nom) (3.5" Wide) Interior Boards
- PALLET STRINGER<sup>C</sup>: (3) 1x5x48" (1x6x48" cut to 5")
- THICKNESS: Target 5/8" - 11/16"
- RECOMMENDATION: KILN-DRIED TO PREVENT SHRINKAGE
- *To increase pallet durability, first and second board on each end should be "butted" or placed so that they are touching each other*



### Chamfer on Pallet:

- No chamfer is needed on the outside of the bottom lead boards<sup>F</sup>

### Pallet Length Remarks:

- Adding LX40B pointGUARD<sup>®</sup> Pallet Protectors to a pallet will make the pallet length<sup>I</sup> approx. 0.50" longer
- To keep the length of the pallet at the current dimensions, reduce pallet length<sup>I</sup> by 0.50"

### NOTE:

- All corners on the pallet should be constructed flush and square

## Installation Process:

- To get started, make sure you have read the *Pre-Installation* section and have built the wood pallet to the specifications outlined in this guide
- Next, make sure you have the following:
  - A standard cordless or pneumatic impact driver (20V ideal)
  - (12) 2" #8 Wood Screws per pallet (24 for a set of pointGUARD<sup>®</sup> Pallet Protectors)
  - Tape measure

# Step #1

- Verify that the pallet has been built correctly (see *Technical Specification* section in this guide).
- This includes makes sure that the width of the outside blocks measure 5" exactly and that there is 12.5" of space between them (see page 4 for illustration)



# Step # 2

- Insert the pointGUARD® Pallet Protector into pallet, centering it around the middle block<sup>D</sup>
- Pull the pointGUARD® Pallet Protector as far to the top of the pallet as possible and checking again so that it is centered to the pallet
- Before beginning Step #3, ensure that the protector is is:



1. Centered on the pallet left to right with no over hang on the outside stringers<sup>C</sup>
2. The back wall of the protector is joined with the front of the top lead board<sup>L</sup>, the end of the outside blocks<sup>D</sup> and the front of the bottom 1x6<sup>A</sup> lead board<sup>F</sup> (See the *Troubleshooting Section* at the end of this guide for visuals on an incorrect installation)

**Why this is Important:** Overhang increases the chances that the pointGUARD® Pallet Protector can be snagged on equipment. Also, not allowing any gap between the wall of the LX40B and the end of the pallet (block<sup>D</sup>, pallet stringers<sup>C</sup>, and lead boards<sup>F/L</sup>) ensures maximum effectiveness of the protector.

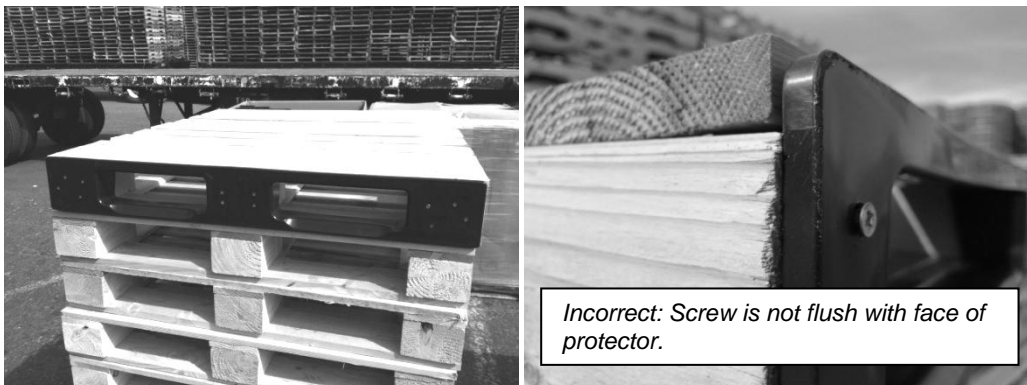
## Step # 4

- Using the driver, screw (12) 2" #8 Wood screws thru the pointGUARD® Pallet Protector and then into the pallet, attaching it with four screws for each block<sup>D</sup>
- TO PROPERLY SET AND CENTER the pointGUARD® Pallet Protector, START WITH THE MIDDLE block<sup>D</sup>



## Step # 5

- Countersink screws to 1/16" - 1/8", careful that the screw will not back out of loose grain wood
- A (#8) 3" or 4" screw can be substituted in the occurrence of an unset screw
- The pallet should not be used In the event that a screw(s) will not hold the pointGUARD® Pallet Protector in position



**Why this is Important:** Screws that are not countersunk can back out and snag on equipment, product, person and automated machinery.

## Step # 6

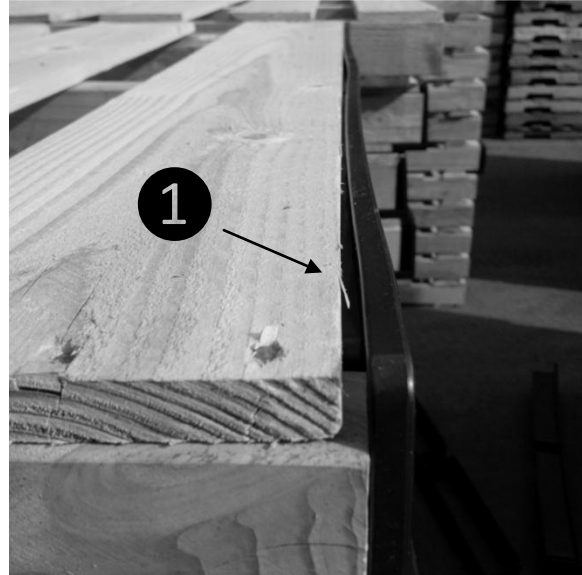
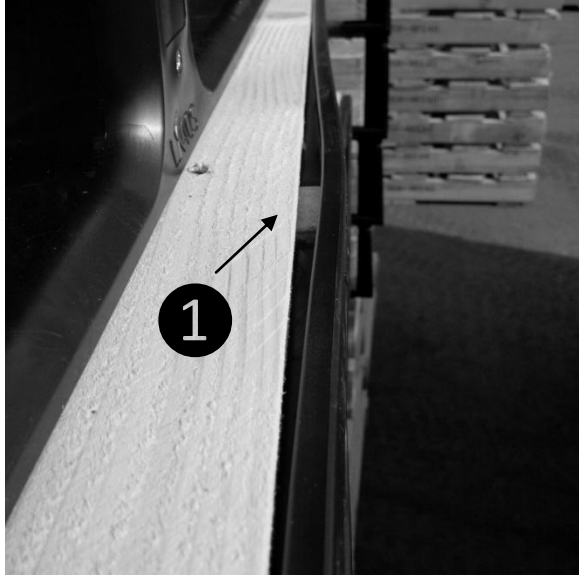
- Repeat steps #1 - #5 on the opposite side of pallet



## Troubleshooting Section:

Avoid the following during installation. These errors will result in the protector possibly cracking or not protecting the pallet as designed.

1. Problem: Lead board<sup>F/L</sup> not flush with end of stringer<sup>G</sup> / block<sup>D</sup>



**Questions: Call (209) 538-5844 for installation guidance and support**