

	Americas Business Management System	Revision Date: 20/Jun/2025	
	Component Supplier Packaging & Shipping	Revision Level: 6.0	
AA-SC-xx-G-001			
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Component Supplier Packaging and Shipping Guideline

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1. PURPOSE

- The Yazaki Component Supplier Packaging & Shipping Guideline outlines the minimum requirements for packaging systems for the component families listed below as well as for any other components that may not be listed:

Standard Parts:

- Tape / Foam
- Clips / Fasteners
- Nuts / Bolts / Screws
- Connectors
- Relays
- Grommets
- Small Shields & Brackets

Non-Standard Parts:

- Wire Spools
- Terminal Reels
- Convoluted Tubing
- Extended Length Plastic Shields/Troughs
- Plastic Bags
- Carton Boxes

- Standard Parts** are hereby defined as parts that are small and/or uniform in configuration which will fit into a pre-determined set of hand-held/human moveable carton dimensions.
- Non-Standard Parts** are hereby defined as parts that, due to their configurations or sizes, require specialized packaging systems and/or carton and pallet dimensions to ensure package and part integrity.
- The minimum requirements within these guidelines are mandatory for all component suppliers shipping *Standard & Non-Standard Parts* to Yazaki.
- The packaging systems contained within this document will be used primarily in truck trailers (48' and 53'), ocean containers (20', 40', 40' High Cube, 45', and 45' High Cube) as well as air shipments. Component Supplier packaging must be robust enough to withstand the rigors of extended overseas transportation (30+ days in transit) through warm/humid climates while also fully utilizing trailer and ocean containers to minimize transportation costs.
- It is ultimately the Component Supplier's responsibility to ensure that their parts arrive at the final Yazaki manufacturing location undamaged. Suppliers must use packaging that withstands the various dynamics of all transportation methods for land, air, and sea. Only one part number is permitted to be shipped inside each box. Shipping Multiple part numbers inside one box is NOT PERMITTED.***

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A warning letter will be issued for the first non-compliant packaging or labeling issue. If the non-conformance continues for more than one month, we will create a GQRS-C. Failure to implement needed changes within two months (or a two-month period) or failure to supply a corrective action plan will result in debit charges (see below chargeback schedule). For further information, please see Yazaki's Terms and Conditions.

- The chargeback schedule for packaging non-conformance is as follows:
 - First occurrence: A 30-day grace period will be granted to correct the packaging non-conformance
 - After 30 days: \$25 fee per non-conforming carton.
 - After 60 days: \$50 fee per non-conforming carton.
 - After 90 days: \$100 fee per non-conforming carton.

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2. Key Contacts.

- **RM Packaging Team:** rmpackaging@mx.yazaki.com

3. PACKAGING SYSTEM DIMENSIONS

3.1 PALLET DIMENSIONS

- It is preferred that all Component Suppliers shipping *Standard and Non-Standard Parts* use a 48" x 45" or 47"x 32" pallet. Cartons and packaging systems should be sized to fit these pallets efficiently. The total pallet load height, including the pallet itself, must not exceed 50". Additionally, boxes must be properly secured to the pallet. [See appendix D.](#)
- Yazaki understands that due to the size and configuration of certain non-standard parts, specialized packaging with unique pallet dimensions may be necessary. However, all such packaging must be approved by the Component Packaging Engineering Team beforehand.

3.2 CARTON DIMENSIONS

- Preferred carton dimensions and *Non-Standard Part* packaging are listed in [Appendix A](#). Component Suppliers can work with the Yazaki Component Packaging Engineer to design appropriate packaging if certain size boxes are not shown in the table.
- Certain *Non-Standard Parts* (ex: long plastic shields) may require using cartons with longer than 48" lengths in order to fit the part correctly. If the part itself is longer than 48", carton footprints should still be sized so that the 45" side of the pallet is maintained so that the pallets can be loaded 2 across in a truck trailer or ocean container. If this is not possible, prior approval from the Component Packaging Engineering team is required.

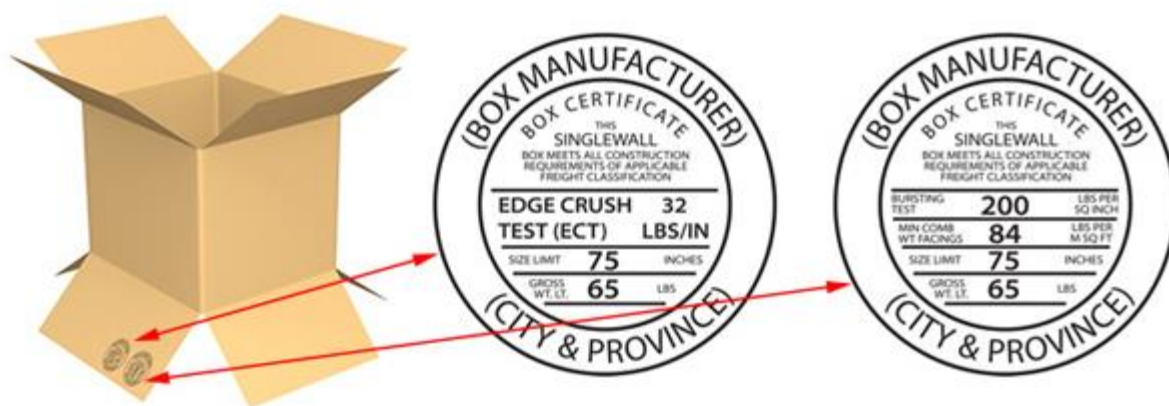
4. GENERAL CARTON CONSTRUCTION REQUIREMENTS

4.1 CARTON DESIGN

- All cartons (Hand-Held & Bulk) shall be RSC (Regular Slotted Cartons) with flaps for closure. All cartons need to be sealed with tape or staples. Closing the cartons by only tucking the flaps is **NOT permitted.**
- HSC Style Cartons (removable lid) are **NOT allowed.**

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- Carton boxes with hand holes are **NOT permitted**, unless specified by the Yazaki Component Packaging Engineer. If handle hand holes are required, the Yazaki Packaging Engineer will notify the component supplier.
- Corrugated cartons shall be designed to withstand 90% humidity and exposure to temperatures from 30°F to 150°F exposure during handling, extended (40+ days) transit and storage.
- Corrugated box material must be 100% recyclable. Rice paper or yellow corrugated are not allowed.
- The supplier needs to share the laboratory results for compression, vibration, and drop tests for every carton size used with the Yazaki Component Packaging Engineering Team. The supplier must perform these tests at their own cost.
- It is MANDATORY that all corrugated cartons have a manufacturer's certificate stamp, with the ECT (Edge Crush Test) or Burst Strength value visible on the bottom of the assembled carton, as shown below:



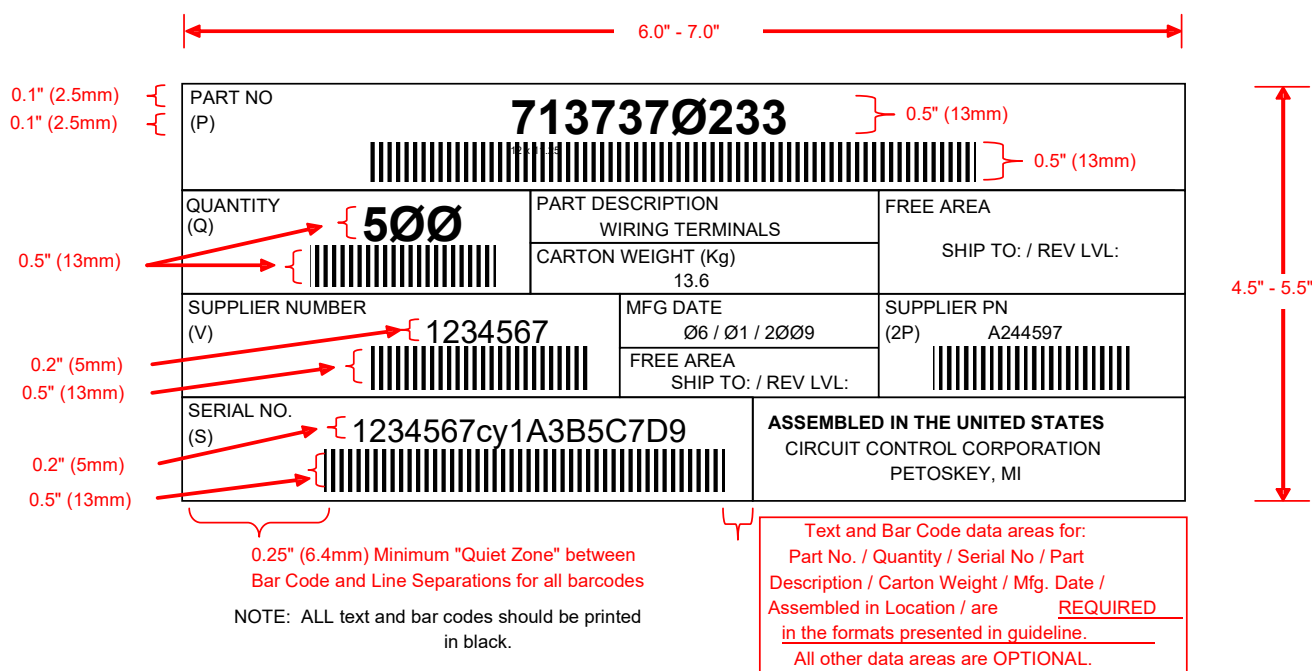
- Please see [Appendix B](#) for dunnage options

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5. LABELING

5.1 LAYOUT

- Yazaki is using a material handling system based on SAP for its Warehouse Management System (WMS) in all its locations and warehouses receiving components and raw materials. In support of this initiative, all component and raw material suppliers that supply to Yazaki or any of its affiliate locations are required to provide bar code labels on each carton or handling unit of product shipped to Yazaki. [Appendix C](#) outlines the specific requirements that must be followed by the component supplier.



The diagram illustrates the layout of a shipping label with the following dimensions and data fields:

- Overall Dimensions:** 6.0" - 7.0" (width) and 4.5" - 5.5" (height).
- Top Section:**
 - PART NO (P): 7137370233 (0.5" (13mm) height)
 - QUANTITY (Q): 500 (0.5" (13mm) height)
 - PART DESCRIPTION: WIRING TERMINALS
 - CARTON WEIGHT (Kg): 13.6
 - FREE AREA: SHIP TO: / REV LVL:
- Middle Section:**
 - SUPPLIER NUMBER (V): 1234567 (0.2" (5mm) height)
 - MFG DATE: 06 / 01 / 2009
 - SUPPLIER PN (2P): A244597
 - FREE AREA: SHIP TO: / REV LVL:
- Bottom Section:**
 - SERIAL NO. (S): 1234567cy1A3B5C7D9 (0.2" (5mm) height)
 - ASSEMBLED IN THE UNITED STATES
 - CIRCUIT CONTROL CORPORATION
 - PETOSKEY, MI

Minimum "Quiet Zone" between Bar Code and Line Separations for all barcodes: 0.25" (6.4mm)

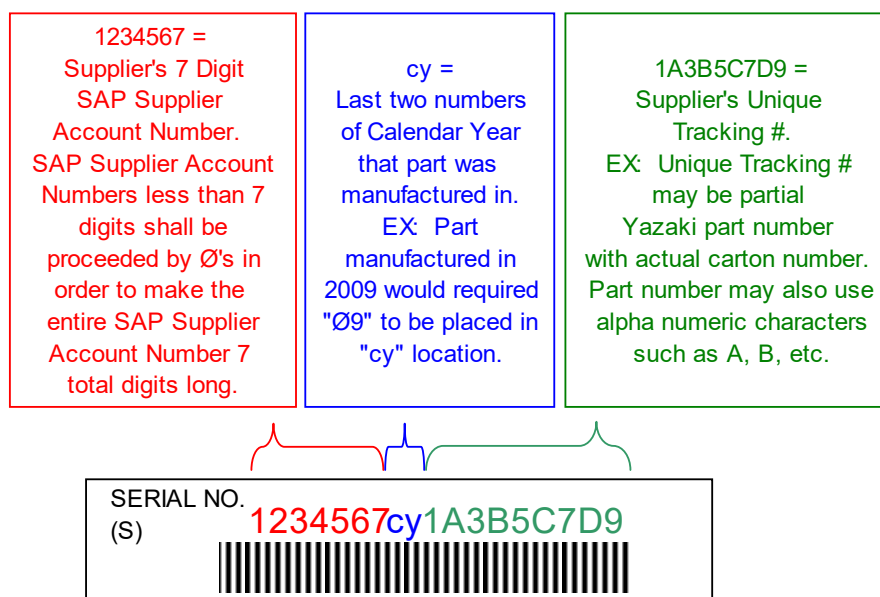
NOTE: ALL text and bar codes should be printed in black.

Text and Bar Code data areas for:
 Part No. / Quantity / Serial No / Part Description / Carton Weight / Mfg. Date / Assembled in Location / are **REQUIRED** in the formats presented in guideline.
 All other data areas are **OPTIONAL**.

- Two labels are required per box. They must be placed on adjacent sides so that at least one label is visible when the boxes are stacked on a pallet.

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- SAP Supplier Account Numbers that are less than 7 digits shall be preceded by one or multiple zeroes (Ø's) as necessary to complete the first 7 spaces of the overall Serial Number. Examples for 1 digit, 4 digit, and 7 digit Serial Number Prefixes:
 - 1 is SAP Supplier Account Number - Serial Number always starts as 0000001.
 - 1234 is SAP Supplier Account Number - Serial Number always starts as 0001234.
 - 1234567 is SAP Supplier Account Number - Serial Number always starts as 1234567 without any zeroes preceding the SAP Supplier Account Number.
- The next two digits, as designated by the “cy” in the bar code example, shall be the last two digits of the calendar year that the part is manufactured in.
- The remaining 7-9 digits of the serial number shall be generated by the component supplier. These 7-9 digits may be alpha-numeric as shown in the diagram below. Using the carton number itself is recommended but not required. If the carton number is selected to be used, and is for example: carton # 143, the remaining portion of the unique serial number should be 0000143, 00000143, or 000000143, or may use any combination of the carton number plus alpha numeric characters.
- The diagram below explains details for the Serial No. area:



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- Each Component Supplier will be responsible for tracking the Serial Numbers they generate for each carton shipped to Yazaki. Any communications to Yazaki about particular cartons (e.g., for rework or quality issues) must include the serial number that appears on the bar code label.
- Each component supplier is responsible for generating serial numbers that are unique across all of their part numbers and handling units.
- A serial number shall never be repeated.
- *ASN's are required for each shipment and must include all information pertaining to the material on the shipment.*
 - *If the packaging is returnable, the ASN's must include the code of the returnable packaging and quantities.*

Requirements for Ship to Location & Revision Level

- Yazaki has added the additional requirements to the label:
 - “**Ship To**” location (Destination Plant or DC)
 - “**Revision Level**” of the part (if applicable)
 - The “**Ship To**” location and “**Revision Level**” may be printed in the “Free Areas” on the label. The “**Revision Level**” may also be printed as shown in Example A in the label examples after the location chart.

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- The “**Ship To**” location should be printed in human readable format, and is based off of the coded location chart below:

	SAP Plant Code	Plant / Ship To Location	Text to be printed on Label in "Ship To Data Area"
North West	1250	Grupo Yazaki, Obregon 1 Obregon, Sonora, Mexico	GYSA OBR1
	1252	Grupo Yazaki, Obregon 2 Obregon, Sonora, Mexico	GYSA OBR2
	1254	Grupo Yazaki, Pacific Distribution Center Obregon, Sonora, Mexico	GYSA PDC
	1330	Grupo Yazaki, Etchojoa Etchojoa, Sonora, Mexico	GYSA ETCH
	1332	Grupo Yazaki, Bacum Bacum, Sonora, Mexico	GYSA BAC
	1400	Grupo Yazaki, Navojoa Navojoa, Sonora, Mexico	GYSA NAV

	SAP Plant Code	Plant / Ship To Location	Text to be printed on Label in "Ship To Data Area"
South East	5121	Arnecom Distribution Center Tuxtla Tuxtla, Chiapas, Mexico	ARNECOM TUXDC
	5124	Arnecom Villaflores Villaflores, Chiapas, Mexico	ARN-VF
	5120	Arnecom Tuxtla Gutierrez Plant 1 Tuxtla Gutierrez Chiapas, Mexico	ARN-TX1
	5126	Arnecom Ocozocuautila Ocozocuautila, Chiapas, Mexico	ARN-OCO
	5134	Arnecom Tapachula Tapachula, Chiapas, Mexico	ARN-TP
	5122	Arnecom Tuxtla Gutierrez, Plant 2 Tuxtla Gutierrez, Chiapas, Mexico	ARN-TX2

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	SAP Plant Code	Plant / Ship To Location	Text to be printed on Label in "Ship To Data Area"		SAP Plant Code	Plant / Ship To Location	Text to be printed on Label in "Ship To Data Area"
North 1	1301	Grupo Yazaki, Juarez 4 Cd. Juarez, Chihuahua, Mexico	GYSA J4	BAJIO	1200	Grupo Yazaki, Colima Colima, Colima, Mexico	GYSA COL
	1306	Grupo Yazaki, Distribution Center Juarez Cd. Juarez, Chihuahua, Mexico	GYSA JDC		1202	Grupo Yazaki, TECOMAN Tecomán, Colima, Mexico	GYSA TEC
	1304	Grupo Yazaki, Juarez 2 Cd. Juarez, Chihuahua, Mexico	GYSA J2		1350	Grupo Yazaki, Bajio Distribution Center Sialo, Guanajuato, Mexico	GYSA BDC
	1300	Grupo Yazaki, Juarez 3 Cd. Juarez, Chihuahua, Mexico	GYSA J3		1352	Grupo Yazaki, Poncitlan Poncitlan, Jalisco, Mexico	GYSA PON
	1302	Grupo Yazaki, Juarez 1 Cd. Juarez, Chihuahua, Mexico	GYSA J1		1354	Grupo Yazaki, Leon Leon, Guanajuato, Mexico	GYSA LEON
	1303	Grupo Yazaki, Juarez 5 Cd. Juarez, Chihuahua, Mexico	GYSA J5		1232	Grupo Yazaki, Huixtla Tapachula, Chiapas, Mexico	GYSA HUI
	1340	Grupo Yazaki, San Luis Rio Corrado San Luis Rio Corrado, Chihuahua, Mexico	GYSA SLRC		1136	Grupo Yazaki, Tapachula 2 Tapachula, Chiapas, Mexico	GYSA TAPA2
North 2	1640	Grupo Yazaki, Ignacio Zaragoza Ignacio Zaragoza, Chihuahua, Mexico	GYSA IZ	Central	1515	Grupo Yazaki, Durango 1 Durango, Durango, Mexico	GYSA D1
	1600	Grupo Yazaki, Gomez Farias Gomez Farias, Chihuahua, Mexico	GYSA GF		1520	Grupo Yazaki, Nuevo Ideal Nuevo Ideal, Durango, Mexico	GYSA NI
	1610	Grupo Yazaki, Madera Madera, Chihuahua, México	GYSA MD		1537	Grupo Yazaki, Distribution Center Durango Durango, Durango, Mexico	GYSA DDC
	1625	Grupo Yazaki, Matachi Matachi, Chihuahua, México	GYSA MT		1530	Grupo Yazaki, Canatlan Canatlan, Durango, Mexico	GYSA CN
	1650	Grupo Yazaki, Buenaventura Buenaventura, Chihuahua, México	GYSA BNV		1535	Grupo Yazaki, Durango 2 Durango, Durango, Mexico	GYSA D2
	1670	Grupo Yazaki, Benito Juarez Benito Juarez, Chihuahua, México	GYSA BJ		1525	Grupo Yazaki, El Salto El Salto, Durango, Mexico	GYSA ES
	1632	Grupo Yazaki, Lázaro Cárdenas Lázaro Cárdenas, Chihuahua, México	GYSA LC		1570	Grupo Yazaki, Guadalupe Victoria Canatlan, Durango, Mexico	GYSA GV
	1510	Grupo Yazaki, Ascensión Ascensión, Chihuahua, México	GYSA ASC		1850	Yazaki Electronics Durango (YED) Durango, Durango, Mexico	YED
	1540	Grupo Yazaki, Nuevo Casas Grandes Nuevo Casas Grandes, Chihuahua, Mexico	GYSA NCG				

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North East	SAP Plant Code	Plant / Ship To Location	Text to be printed on Label in "Ship To Data Area"
	5150	Arnecom Yazaki Instrumentos San Nicolas de los Garza, Nuevo Leon, Mexico	ARN-RWC
	5126	Arnecom Reliance Monterrey Monterrey, Nuevo Leon, Mexico	ARN-RWC
	5160	Arnecom Cables, Monterrey Monterrey, Nuevo Leon, Mexico	ARN-CAB
	5116	Arnecom Distribution Center Monterrey Arnecom, Nuevo Leon, Mexico	CADYS DC
	5100	Arnecom Monterrey Monterrey, Nuevo Leon, Mexico	ARN-MON
	5102	Arnecom Dr. Arroyo Dr. Arroyo, Nuevo Leon, Mexico	ARN-DA1
	5103	Arnecom Dr. Arroyo Plant 2 Dr. Arroyo, Nuevo Leon, Mexico	ARN-DA2
	5112	Arnecom Moctezuma Moctezuma, San Luis Potosi, Mexico	ARN-MZ
	5114	Arnecom Valles Cd. Valles, San Luis Potosi, Mexico	ARN-VA
	5108	Arnecom Charcas Charcas, San Luis Potposi, Mexico	ARN-CHA
	5110	Arnecom Venado Venado, San Luis Potposi, Mexico	ARN-VEN
	5104	Arnecom Anahuac Anahuac, Nuevo Leon, Mexico	ARN-ANA
	5106	Saltillo Plant 2 Saltillo Coahuila, Mexico	ARN-SP2
	5105	La Laguna, Plant 1 Torreon Coahuila, Mexico	ARN-LAG

El Salvador	SAP Plant Code	Plant / Ship To Location	Text to be printed on Label in "Ship To Data Area"
	1750	Arnecom ELS, El Salvador Santa Ana, El Salvador	ARN-ELS
Nicaragua	1752	Arnecom ELS, Distribution Center ELS Lourdes, El Salvador	ARN-ELSDC
	1760	Arnecom de Guatemala Pajapita, Guatemala	GUATEMALA
	5173	Arnecom Nic, Cadys Apodaca Apodaca, Nuevo leon, Mexico	CADYS
	2173	Arnecom Nic, Distribution Center Nicaragua Chinandega, Nicaragua	NICDC
	2170	Arnecom Nic - Nicaragua 1 Leon, Leon, Nicaragua	ARN-N1
	2172	Arnecom Nic - Nicaragua 2 Leon, Leon, Nicaragua	ARN-NL2
	2174	Arnecom Nic - Nicaragua 3 Chinandega, Nicaragua	ARN-EV
	2176	Arnecom Nic - Nicaragua 4 Leon, Leon, Nicaragua	ARN-N4
	2171	Arnecom Nic - Nicaragua 5 Leon, Leon, Nicaragua	ARN-N5
	2177	Arnecom Nic - Nicaragua 6 Chinandega, Nicaragua	ARN-N6

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SAP Plant Code	Plant / Ship To Location	Text to be printed on Label in "Ship To Data Area"
5178	Arnecom Nic - Cables Leon, Leon, Nicaragua	ARN-NCB
1805	Service Manufacturing Technical Center 20 Butterfield Blvd., El Paso, TX, USA	SMTC
1815	Yazaki Componentes de Mexico, Plant 1 Chihuahua, Chihuahua, Mexico	YCC1
1820	Yazaki Componentes de Mexico, Plant 2 Chihuahua, Chihuahua, Mexico	YCC2
1825	Yazaki Componentes de Mexico, Plant 3 Chihuahua, Chihuahua, Mexico	YCC3
1072	COMBUE, 18 Leigh Fisher El Paso, TX, USA	COMBUE
1070	CPS, 18 Leigh Fisher	CPS

- The part number's "**Revision Level**" (if applicable) should be printed in human readable format (not bar coded) and may be printed in its own data area to the far right of the actual part number print in the Part Number field (as shown in example A below). The Revision Level shall not be included (not scanned) in the bar code for the Part Number. It may also be printed as shown in any of the "Free Area" data areas along with the "**Ship To**" location as shown in examples B, C & D.
- If there is no "**Revision Level**" to the part number, it is not necessary to create or display a "**Revision Level**" data area on the label.

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6. PALLET CONSTRUCTION

Yazaki is *committed* to maximizing the utilization of ocean containers and trailers. To support this goal, **all component suppliers of both Standardized and Non-Standardized Parts are required to ship product on 48" x 45" or 47" x 32" pallets.**

- Exceptions will be reviewed and may be given to a supplier whose shipping volumes do not fulfill full layers or full pallet loads on the 48" x 45" or 47"x32" pallet, or who's product type requires specialized packaging/dimensions.
- All pallets received at Yazaki locations must be in good condition. Pallets with visual damage will be rejected, and Yazaki DC will generate a GQRS-C.
- **NOTE:** Suppliers whose shipment volumes which do not warrant the use of the 48" x 45" or 47"x32" pallet (example: supplier normally ships parts via UPS) are still required to ship their product in carton sizes that cube/fit the 48" x 45" or 47"x32" pallet and meet the carton height requirements stated in this document.
- **All wooden pallets used to ship product to Yazaki North America must meet ISPM 15 - Guidelines for Regulating Wood Packaging Material in International Trade and be stamped with the certified marking as shown in [Appendix D](#).**

7. PALLETIZATION

7.1 GENERAL REQUIREMENTS

- The combined height of the pallet and the stacked cartons must not exceed 50 inches.
- Yazaki allows its Component Suppliers to select the best carton footprint (L x W) of their product. Carton footprints selected shall cube/fit to within 1" of the length and 1" of the width of the 48" x 45" or 47"x32" pallet and be able to stack up to 50" or less including the pallet height.
- **Full level layers** of cartons are required when loading pallets. No "Pyramiding" is allowed, this is to allow unit load stacking during transportation and storage.
- Carton footprints or special materials should completely cube out a full layer on the pallet with **NO OVERHANG**.
- Barcode Labels must be both human readable and scannable through stretch wrap or banding. Please see [Appendix E](#) for palletization standards.

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- Any exception to these palletizing requirements must be reviewed and approved by the Component Packaging Engineering team.

7.2 MASTER PALLET LOAD LABEL

- A Master Pallet Load label shall be used to identify the total quantity of parts when the entire pallet consists of one part number.
- The serial number area of the *Master Load Label* shall contain the following information for each carton on the pallet:
 - Master Pallet Legend
 - Master Label Serial Number

7.3 MIXED PALLET LOAD LABEL

- A Mixed Pallet Load label shall be used to identify the quantities and part numbers shipped when there are multiple part numbers on the pallet.
- The serial number area of the *Mixed Pallet Load* label shall contain the following information for each carton on the pallet:
 - Mixed Pallet Legend
 - Serial Number of the carton
- It is mandatory to use a master or mixed pallet label when the arrangement of cartons on the pallet is different from 2x2.

7.4 MASTER & MIXED PALLET LABEL DESIGN

- The Master / Mixed Label shall be the same overall size as the carton (handling unit) label. The same label stock shall be used for all labels. Master / Mixed Label specification and location on pallet loads can be referenced in [Appendix E](#)

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8. OCEAN CONTAINER AND TRUCK TRAILER LOADING

- The purpose of this section is to provide uniform loading guidelines for ocean containers and truck trailers. These guidelines should assure unit load quantities for ocean containers and trailers, load configuration, methods for moisture barriers, and bracing techniques to provide load stability during transit in order to assure consistency and integrity for all incoming shipments.

8.1 LOAD CONFIGURATION

- All expendable cartons on wood pallets should be double stacked up to 100” high in truck trailers or High Cube Ocean containers (40’ and 45’ High Cube) to fully utilize shipping trailer/container.
- All expendable cartons on slip sheets should be double stacked up to 90” high in the standard 40’ ocean container to fully utilize ocean container.
- Stacking returnable containers on top of expendable cartons or vice versa **is prohibited.**
 - Stack lighter unit loads on top of heavier unit loads.
 - Hand-held carton unit loads should be loaded toward the front of the shipping trailer/container.
 - Partial unit loads should be loaded toward the rear of the container or trailer.
 - Weight must be evenly distributed side to side and end to end of the container or trailer.

8.2 LOADING REQUIREMENTS

- It is the **Component Supplier’s and/or Shipping Company’s** responsibility to assure that the most effectively utilized truck trailer or ocean container is selected when shipping product, depending on the unit load size.
- If loading patterns in this guideline cannot be followed by the Component Supplier and/or Shipping Company, they should notify Yazaki Packaging, Transportation, and Production Control immediately for approval to ship. Bracing diagrams are located in *Appendix F*

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9. ONLINE PACKAGING SYSTEM

9.1 PURPOSE

- Suppliers are required to be registered within the system.
- Part numbers are to be released to suppliers for their input and submission. If new packaging is required, then forms can be rejected and re-submitted
- The approved online submission will be an agreement between Yazaki and component supplier for how the components will be packed and shipped.

YAZAKI PACKAGING DATA FORM			
YAZAKI Part #:	Part Name:	Revision Level:	
Supplier Part #:		Date Revision:	
Program: Supplier 7-Digit SAP Vendor ID: Supplier Ship From Location: Component Annual Volume(CPV): Component Daily Volume: YAZAKI Receiving Location :		Supplier Contact Information Supplier Name: Supplier Contact: Phone: Mobile: Email:	
			
PART CHARACTERISTICS			
Length (In)	Width (In)	Height (In)	Part Weight (Lb)
		☐ Class A ☐ Grained Surface ☐ Electrostatic Discharge ☐ Painted ☐ Winkle-Prone ☐ Wrapped ☐ Corrosion Inhibitor ☐ Set-Prone	
PRIMARY CONTAINER		DRAWING PICTURE OF PARTS AND PACK	
Expendable / Returnable:	O.D.	Length (In)	Width (In)
Parts / Container :	Tare Weight:	Height (In)	
Container Str:	Gross Weight:		
	Load/Unload:		
INTERIOR PACKAGING (Dunnage)			
Type	Qty / Carton	Description	Material
PALLET AND LID			
Description:	Length (In)	Width (In)	Height (In)
Pallet Dimensions:	Pallet Securement Method:		
Pallet Tare Weight:	Is the pallet heat treated?:		
Value:			
UNIT LOAD			
Unit Load Dimensions:	Length (In)	Width (In)	Height (In)
Unit Load Gross Weight:	Unit Loads/Trailer Layer:		
Pcs/Unit Load:	Unit Loads High/Trailer:		
Inventory Days/Unit Load:	Unit Loads/Trailer:		
Containers/Layer:			
Layers/Unit Load:			
Containers/Unit Load:			

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10. SUPPLIER TRIAL SHIPMENTS

10.1 TRIAL SHIPMENT CRITERIA

10.1.1 REASONS FOR TRIAL SHIPMENTS

- New Component Supplier
- Change of Part, Packaging, or Shipping Method requested by supplier or by Yazaki.
- New Part
- As Deemed Necessary

Every trial shipment needs to comply with the next requirements:

- Each trial shipment must be coordinated and monitored by the Packaging Engineer at Yazaki.
- Each trial shipment shall be labeled on all 4 sides of the pallet load with large, brightly colored labels. This label needs to be placed on the carton (not on the plastic wrap). Specific trial information required on labels will be provided by Yazaki Component Packaging Engineer.

11. SHIPMENT DAMAGE

11.1 DAMAGE DOCUMENTATION & RESOLUTION

- Yazaki Component Warehouse documents all incoming packaging and product damage from all Component Suppliers.
- Yazaki's Warehouse and Yazaki Component Packaging Engineering team will review any reported damage and determine whether it was caused by the carrier or by the quality of the supplier's packaging. If it is determined that the damage was due to the supplier's packaging, the supplier will be notified and required to make the necessary improvements.
- The Component Supplier & Yazaki Component Packaging Engineering team shall work together on a packaging improvement plan in order to achieve resolution. The packaging team will require shipment trials to ensure the quality and integrity of the full shipment before implementation of the new packaging.

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- If it is determined that the improved packaging system requires a change in the carton specifications, the supplier must develop a new carton design and send to the Yazaki Component Packaging Engineering team the required certification that validates the new carton design.
- If a packaging improvement plan is not worked towards, followed, or achieved in a timely manner by the Component Supplier:
 - A GQRS-C report will be generated for damaged packaging & product.
 - The Quality Team will issue the report to the Component Supplier.
 - Component Supplier Rating will be affected.

12. PACKAGING QUESTIONS & ISSUES

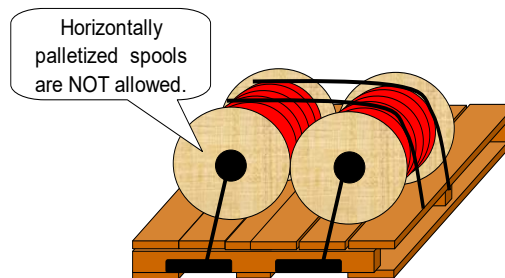
- Packaging issues may be communicated to the Yazaki Component Packaging Engineering team by contacting:
 - **RM Packaging Team:** rmpackaging@mx.yazaki.com

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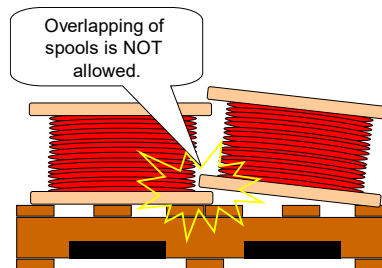
13 SPECIAL PACKAGING SYSTEMS

13.1.1 WIRE SPOOLS / NPS

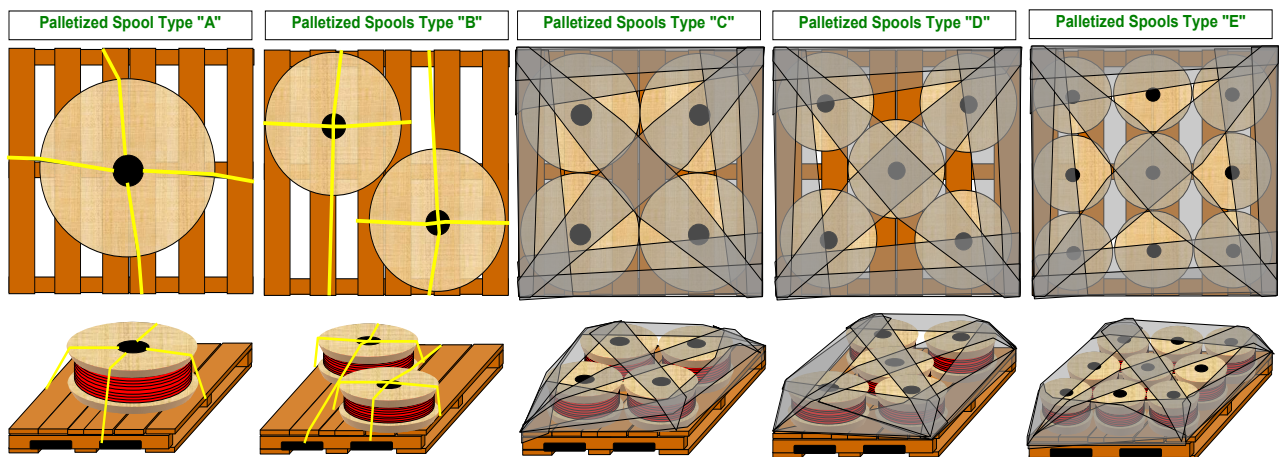
- Horizontal palletizing of wire spools is **NOT ALLOWED**.



- Overlapping of spools on the pallet is **NOT ALLOWED**.



- Large spools (Type A & B as shown below) which do not take up the full footprint of the pallet must be **banded** to the pallet in a 4-way pattern. Banding material should be plastic. Smaller spools (Types C, D, and E as shown below) which take up the full footprint of the pallet may also be banded, but should always be **stretch wrapped** as shown, with an “X” pattern on top for final wrap. All 4 corners of the pallet must be included in the stretch wrap.



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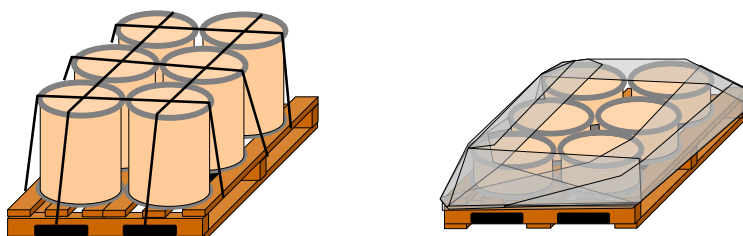


- NPS shipments must be single layers on a pallet unless using 400/150mm NPS (last picture above)
- When shipping less than a full layer of spools, alternative pallet dimensions *should* be used instead of the Yazaki preferred 48" x 45" or 47"x32" pallet. Both width dimensions are allowable, as long as the spools do not overhang the pallet or overlap each other.
- If the commercial agreement between Yazaki and supplier is the NPS is returnable, the NPS must follow next consideration:
 - Per Policy, wooden spools and wooden pallets used in Central America cannot be returned to any location.
 - The NPS color must comply with the specifications provided by the Yazaki Packaging Engineering team.

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13.1.2 WIRE FIBER DRUMS

- Wire Fiber Drums shall follow the same requirements for spacing on the pallet and banding/stretch wrapping as Wire Spools / NPSs in the previous section.



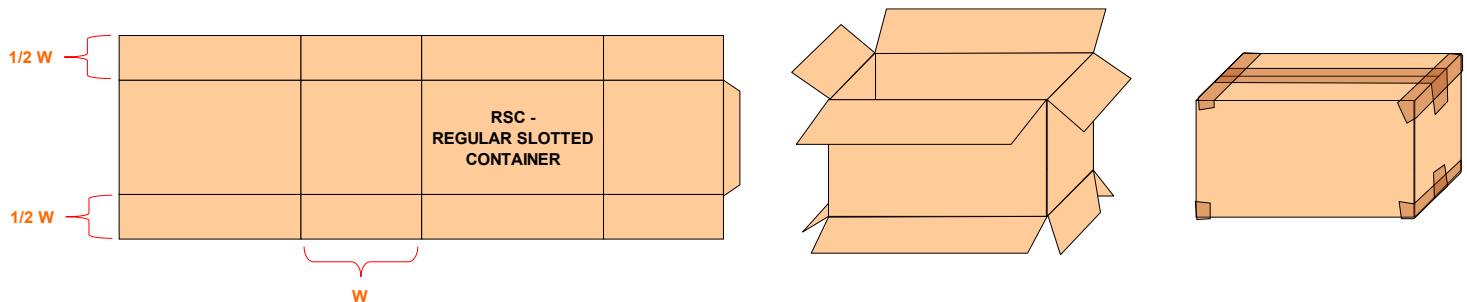
- When the wires arrive without NPS, the coils need a cardboard core to ensure the correct packing on the pallet. (maximum of 5 per stack)



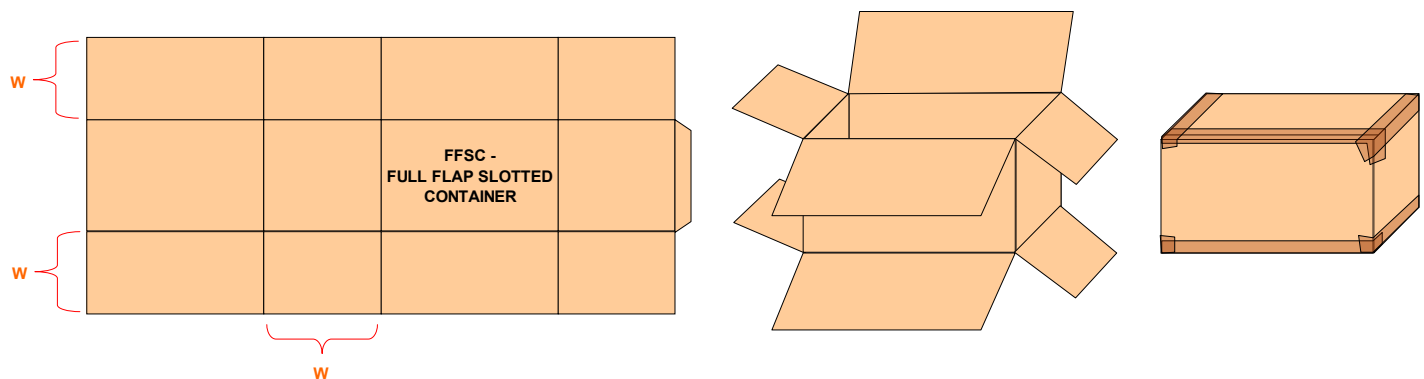
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13.1.3 TERMINAL REEL CARTONS

- ALL terminal cartons shall be a **minimum** of 44 ECT Single Wall Corrugate.
- Carton dimensions shall be such that they do not overhang the pallet in any location when layered on the pallet.
- Terminal Reels may be packed in several allowable carton styles:
 - RSC (Regular Slotted Carton): The constructed RSC carton has outer flaps that meet at the center, on both top and bottom surfaces.

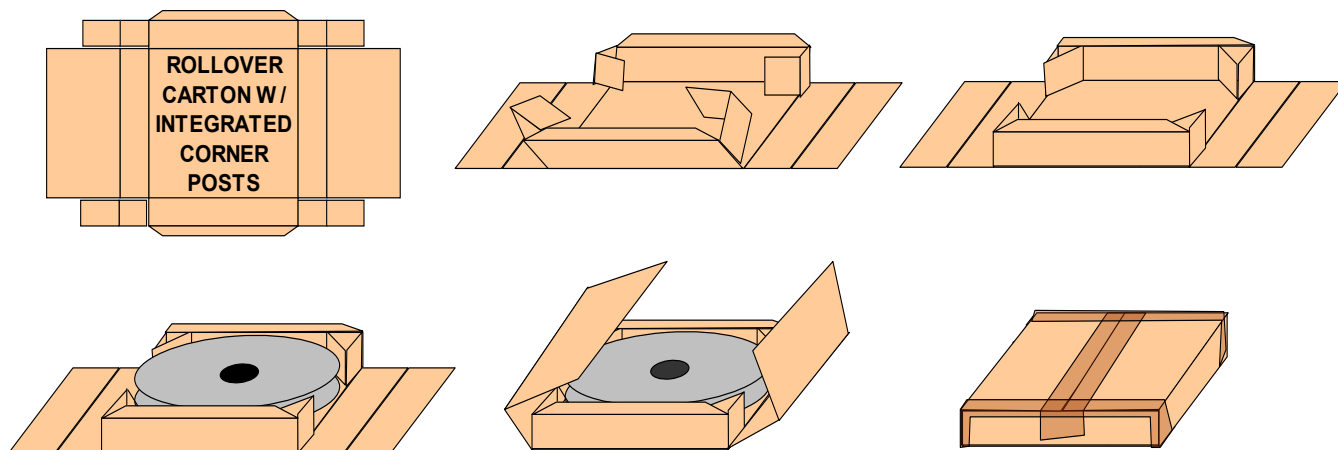


- FFSC (Full Flap Slotted Carton): The FFSC, unlike the RSC, has outer flaps that fully overlap. This offers extra strength and support to the carton. This style is especially suited to cartons that have a very narrow width (i.e., Terminal Reel Cartons).



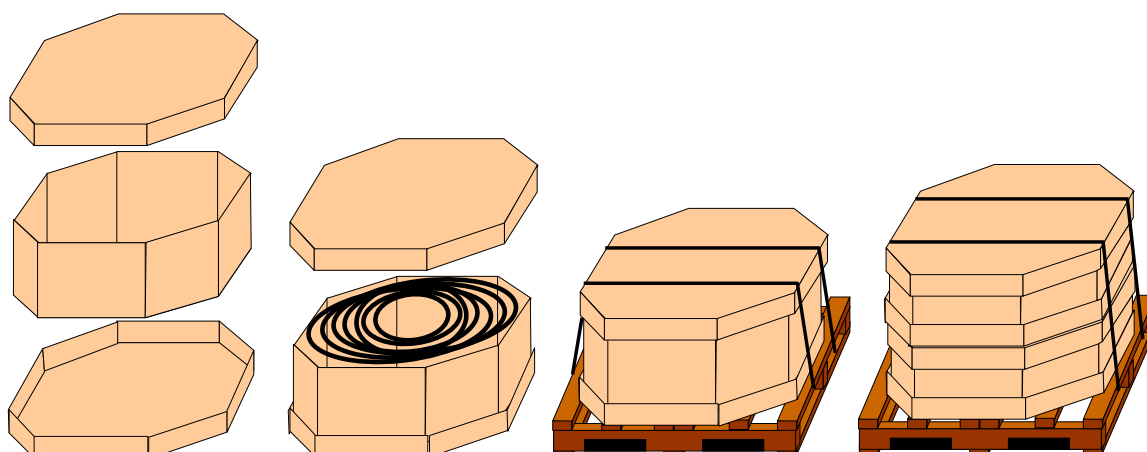
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Yazaki's Preferred Terminal Carton Design is a Rollover Carton w/Hinged Lid.



13.1.4 CONVOLUTE TUBING

- Bulk Convolute Tubing cartons may be packed in octagonal-style Gaylord.
- Minimum board strength shall be 275 Lb. Double Wall Corrugate. Stronger cardboard material may be used.
- Pallet dimension should be matched to the size of the carton so that the carton does not overhang the pallet in any location.
- The carton(s) must be secured to pallet with a minimum of two banding straps as shown below. An additional banding strap in the cross dimension is recommended.

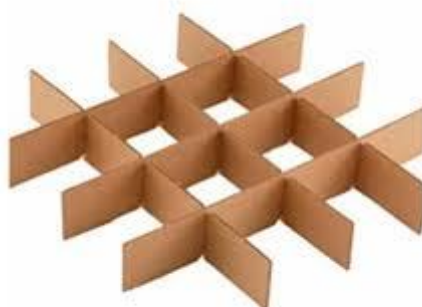


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13.1.5 ADDITIONAL PACKAGING PROTECTION FOR SPECIAL PARTS.

- The supplier is required to identify and to propose additional packaging protection for special parts, which must be reviewed and approved by the Yazaki Component Packaging Engineering team prior to implementation.

Examples of special protection:

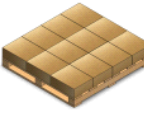
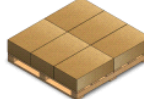
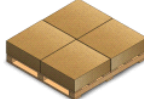
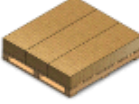
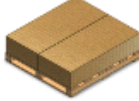


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14. APPENDIX A

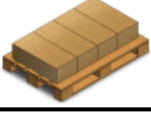
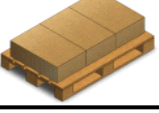
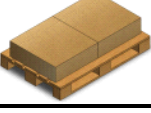
14.1 PREFERRED CARTON DIMENSIONS AND SPECIFICATIONS

- The table represents the preferred carton footprint, heights, and **minimum** carton material strengths for component packaging systems:

48x45 Wooden Pallet +0/-0.5									
Carton Size					Ctns per pallet				
Length (in)	Width (in)	Height	Cartons / Layer	Max Layers / Pallet	Min	Max	Image as a reference (Min)	Image as a reference (Max)	
Hand Held cartons	12	11	16	6	16	96			
	12	11		6	16	96			
	12	11		5	16	80			
	15	12	12	6	12	72			
	15	12		6	12	72			
	15	12		5	12	60			
	15	12		4	12	48			
	24	11	8	6	8	48			
	24	11		5	8	40			
	24	11		4	8	32			
	24	15	6	6	6	36			
	24	15		5	6	30			
	24	15		4	6	24			
	24	22.5	4	6	4	24			
	24	22.5		5	4	20			
	24	22.5		4	4	16			
Bulk Cartons	48	15	3	6	3	18			
	48	15		4	3	12			
	48	15		3	3	9			
	48	22	2	4	2	8			
	48	22		3	2	6			
	48	22		2	2	4			

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47x32 Wooden Pallet +/-0.5

			Cartons / Layer	Max Layers / Pallet	Ctns per pallet		Image as a reference (Min)	Image as a reference (Max)
Length (in)	Width (in)	Height			Min	Max		
Hand Held cartons	12	11	8	6	8	48		
	12	11		6	8	48		
	12	11		5	8	40		
	15	12	6	6	6	36		
	15	12		6	6	36		
	15	12		6	6	30		
	15	12		4	6	24		
	24	11	4	6	4	24		
	24	11		5	4	20		
	24	11		4	4	16		
	24	15	3	6	3	18		
	24	15		5	3	15		
	24	15		4	3	12		
	24	22.5	2	6	2	12		
	24	22.5		5	2	10		
	24	22.5		4	2	8		

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ECT Requirement				
Foot print Carton	Weight per carton	Type of carton	Min ECT (Edge Crust Test) requirement	Min Burst Strength requirement
12 x 11 in	0-14 lbs	Single Wall	44 ECT	275#
	15-35 Lbs	Single Wall	55 ECT	350#
15 x 12 in	0-9 Lbs	Single Wall	44 ECT	275#
	10-35 Lbs	Single Wall	55 ECT	350#
24 x 11 in	0-9 Lbs	Single Wall	44 ECT	275#
	10-35 Lbs	Single Wall	55 ECT	350#
24 x 15 in	0-4 Lbs	Single Wall	44 ECT	275#
	5-19 Lbs	Single Wall	55 ECT	350#
	20-35 Lbs	Double Wall	48 ECT	275#
24 x 22.5 in	0-14 Lbs	Single Wall	55 ECT	350#
	15-35 Lbs	Double Wall	48 ECT	350#
48 x 15 in	0-19 Lbs	Double Wall	48 ECT	275#
	20-35 Lbs	Double Wall	51 ECT	350#
48 x 22 in	0-19 Lbs	Double Wall	48 ECT	275#
	20-35 Lbs	Double Wall	51 ECT	350#

- Single Wall cartons shall be constructed of C-Flute linerboard. Double Wall cartons shall be constructed of B-C Flute linerboard. **All export shipments overseas and by air are REQUIRED to have double wall corrugate boxes.**
- **Single wall cartons less than 44 ECT and double wall cartons less than 48 ECT are not allowed**
- The **Ergonomic Weight Limit** for Hand-Held packaging is **35 Lbs.** or less (weight of empty carton, interior dunnage, & product combined).

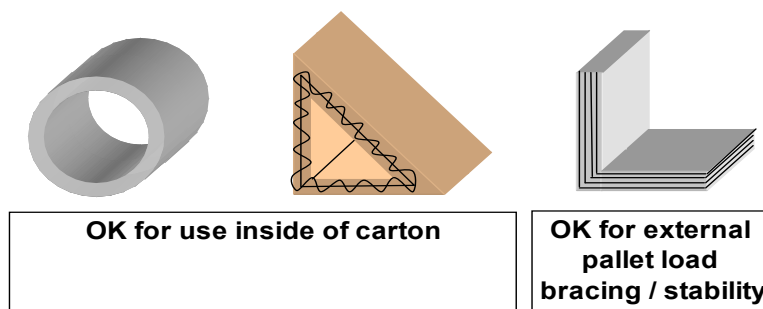
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15. APPENDIX B

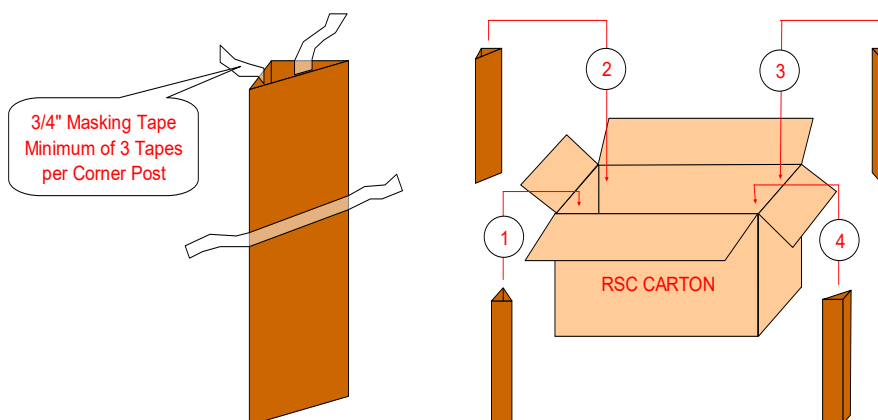
15.1 DUNNAGE OPTIONS

15.1.1 CARTON CORNER POSTS

- To ensure stacking strength, carton corner posts *may* be used inside of cartons (hand-held and bulk) when increased packaging strength is deemed necessary.
- Compressed Circular (paper tubes) and Triangular Posts (Double Wall Corrugate) may be used inside of any carton to provide additional stacking strength.



- If used internally, corner posts should be installed using 3/4" wide masking tape as shown in the diagram below. Use a minimum of three spot tapes to secure each corner post.

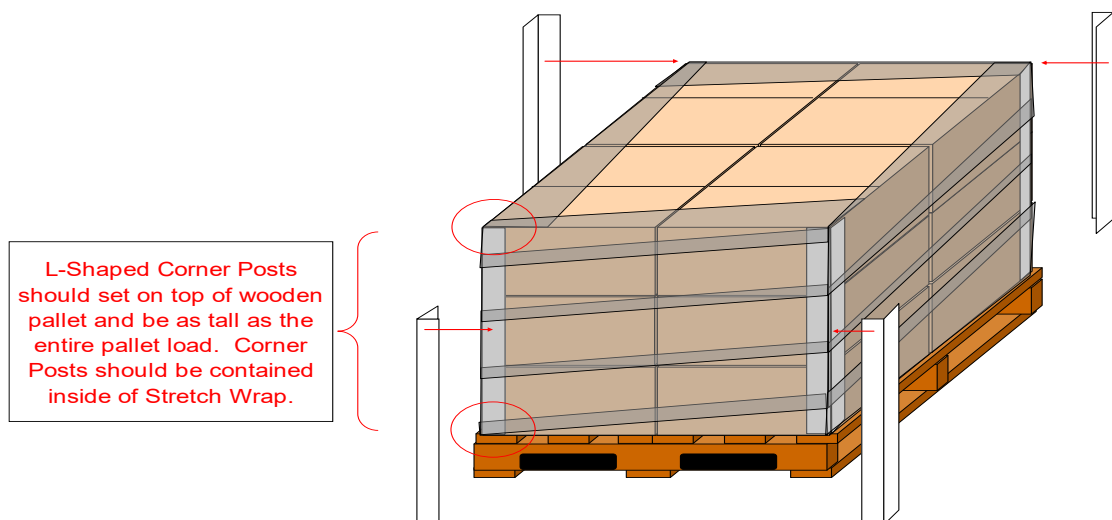


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- Tape or staples must be used to close the carton lids.



- Laminated L-Shaped posts are not preferred inside of cartons but may be used externally on pallet loads to provide stability if necessary.



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16. APPENDIX C

16.1 BAR CODE SYMBOLOGY

- The bar code labels shall follow the bar code standard set by AIAG Shipping/ Parts Identification label guideline B-3.

16.1.1 CODE CONFIGURATION

- The four symbols (\$, /, +, %) of the Code 39 Symbology shall not be used on the bar code label.

16.1.2 CODE DENSITY AND DIMENSION

- All Bar Code heights shall be 0.5 inch (13mm). For each bar code symbol, the average width of the narrow elements shall be within the range of 0.013 to 0.017 inch (0.33-0.43mm). The ratio of the average width of the wide elements of the average width of the narrow elements shall be 3:1, with an allowable range of 2.8:1 to 3.2:1. The leading and trailing edge “quiet zone” should be at least 0.25 inch (6.4mm). Inter-character gap width should be the same as the width of the average narrow elements, plus or minus the element width tolerance.

16.1.3 REFLECTIVITY AND CONTRAST

- Reflectivity and contrast shall be measured at B900 nanometers. Symbol shall comply with all optical specifications of AIAG B-1.
- Resolution (minimum width) of bar code lines must be at least 10 mils (0.010”).

16.2 DATA AREAS AND TITLES

- Data areas should be separated by thin horizontal lines and should contain their respective titles in the upper left-hand corner. Preferably, thin vertical lines should be used to separate all data areas.
- Titles should be printed in 0.1 inch (2.5mm) high letters.
- Human readable information is recommended to show any Zeroes (Ø) with a slash mark (/) through the zero to differentiate from alphabetical letter O’s.
- ALL text, bar codes, and data area lines shall be printed in black.

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16.2.1 DATA IDENTIFIERS

- Data identifiers shall be used as defined in the current ANSI FACT-1 Data Identifier Directory Standard. A data identifier immediately follows the start character of the bar code symbol and is used to identify the information to follow. More discussed below.

16.2.2 PART NUMBER AREA (P) – (REQUIRED: BAR CODE AND HUMAN READABLE FORMAT)

- Human readable part number characters shall be bold and a minimum of 0.5 inch (13mm) high.
- The bar code symbol shall be directly below the human readable characters and shall be a minimum of 0.5 inch (13mm) high and shall contain the data identifier (P) in the actual scan.
Dashes and spaces should NOT be included in the bar-coded form of the part number or in the human readable of the part number.
- The actual Part Number printed in human readable format and bar-coded format shall be the YAZAKI part number as it appears in the release.

16.2.3 QUANTITY AREA (Q) – (REQUIRED: BAR CODE AND HUMAN READABLE FORMAT)

- Human readable quantity characters shall be bold and a minimum of 0.5 inch (13mm) high.
- The bar code symbol for the quantity shall be directly below the human readable characters and shall be a 0.5 inch (13mm) high and shall contain the data identifier (Q) in the actual scan.
- Quantity shall be the total number of pieces contained in one Handling Unit.

16.2.4 SUPPLIER NUMBER AREA (V) – (OPTIONAL: BAR CODE AND HUMAN READABLE FORMAT)

- Human readable supplier number characters shall be a minimum of 0.2 inch (5mm) high.
- The bar code symbol for the supplier number shall be directly below the human readable characters and shall be a 0.5 inch (13mm) high and shall contain the data identifier (V) in the actual scan.

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- The Supplier Number shall be the 7 digit SAP Supplier Account Number assigned to the Component Supplier. It is the supplier's discretion whether they wish to fill in the Supplier Number Data Area.

16.2.5 SERIAL NUMBER AREA (S) – (REQUIRED: BAR CODE AND HUMAN READABLE FORMAT)

- The human readable serial number characters shall be a minimum of 0.2 inch (5mm) high.
- The bar code symbol for the serial number shall be directly below the human readable characters, shall be a minimum of 0.5 inch (13mm) high, and shall contain the data identifier (S) in the actual scan.
- A unique 16 to 18 digit numeric or alpha-numeric serial number will be generated and tracked by the component supplier for each handling unit of product shipped to Yazaki. A serial number shall never be repeated.
- All component suppliers are responsible for generating serial numbers that are unique across all of their part numbers.
- Each component supplier's specific (up to 7 digit) numeric SAP Supplier Account Number shall be the prefix/beginning of every serial number. SAP Supplier Account Numbers will be communicated through YAZAKI core purchasing group to all vendors. This 7 digit numeric SAP Supplier Account Number must be specified in the first 7 positions of **every** serial number for every part number & handling unit label.

16.2.6 PART DESCRIPTION – (REQUIRED: HUMAN READABLE FORMAT)

- Titles should be printed in 0.1 inch (2.5mm) high letters.
- Description should be printed in 0.1 inch (2.5mm) high letters.
- Part Description may be full descriptive wording or abbreviation.

16.2.7 CARTON WEIGHT – (REQUIRED: HUMAN READABLE FORMAT)

- Titles should be printed in 0.1 inch (2.5mm) high letters.
- Weight should be printed in 0.1 inch (2.5mm) high numbers.

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- Shall be shown in the unit of Kgs. to 0.1 accuracy and is the total weight (carton plus product and any internal packaging dunnage such as cells, dividers, bags, etc.).

16.2.8 MFG DATE – (REQUIRED: HUMAN READABLE FORMAT)

- Titles should be printed in 0.1 inch (2.5mm) high letters.
- Date should be printed in 0.1 inch (2.5mm) high numbers.
- Shall be shown in mm/dd/yyyy format.

16.2.9 FREE AREA – (REQUIRED: SHIP TO / REV LVL)

- This area may be used by the component supplier for Ship To Code and Rev LVL (if available).
- Title should be printed in 0.1 inch (2.5mm) high letters.
- Data should be printed in 0.1 inch (2.5mm) high letters or numbers.

16.2.10 SUPPLIER PN (2P) – (OPTIONAL, BAR CODE AND HUMAN READABLE FORMAT IS PREFERRED)

- The Supplier PN (2P) Area shall contain the component supplier's part number and is for the component supplier's purposes. Bar coding this area is optional for the component supplier.
- Titles should be printed in 0.1 inch (2.5mm) high letters.
- Supplier PN should be printed in 0.2 inch (5.0mm) high numbers.
- Bar code (if used) should be printed to 0.5 inch (16mm) tall.
- The bar code symbol shall be directly below the human readable characters and shall be a minimum of 0.5 inch (13mm) high and shall contain the data identifier (2P) in the actual scan if this area is to be scanned. This ensures incorrect scans will not occur at Yazaki locations between the Yazaki Part Number (P) and the Supplier Part Number (2P).

16.2.11 ASSEMBLED IN / COUNTRY OF ORIGIN & COMPONENT SUPPLIER NAME (REQUIRED: HUMAN READABLE)

- The "Assembled In" or "Country of Origin" location shall be printed at the top of this area.

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- The name of the Component Supplier shall be printed following the “Assembled In/Country of Origin” location.
- There is no required font size or style, but the printing must be large enough to be human readable.

17. APPENDIX D

17.1 PALLET CONSTRUCTION (for standard and non-standard parts)

- The preferred pallet footprints with tolerances are the following:

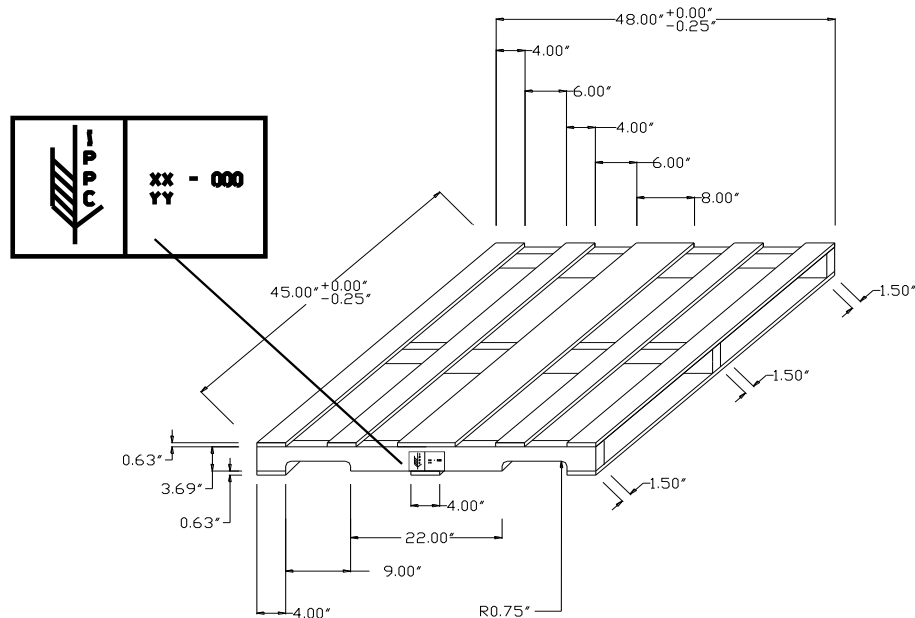
Stringers Deck Boards
48” (+0” / -1/4”) x 45” (+0” / -1/4”)

Stringers Deck Boards
47” (+0” / -1/4”) x 32” (+0” / -1/4”)

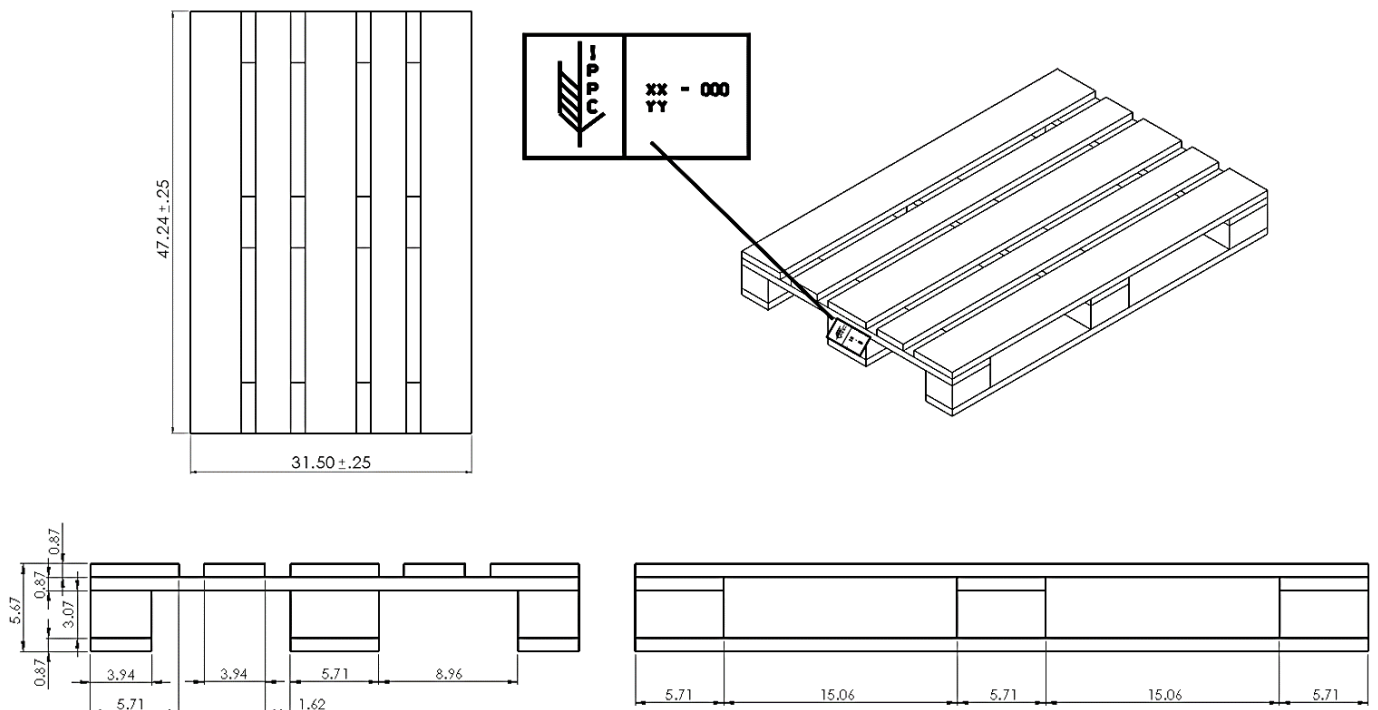
- Pallets must provide a **4-way fork** entry and be of double face non-reversible wood construction.
- When shipping on wooden pallets, shipping documentation must include a notation that states: **"THIS SHIPMENT CONTAINS WOOD PACKAGING MATERIAL WHICH MEETS THE ISPM 15 STANDARDS AND IS MARKED ACCORDINGLY."**

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- The preferred Yazaki pallet footprints are shown below.



Euro pallet (47.2 x 31.5 in.)

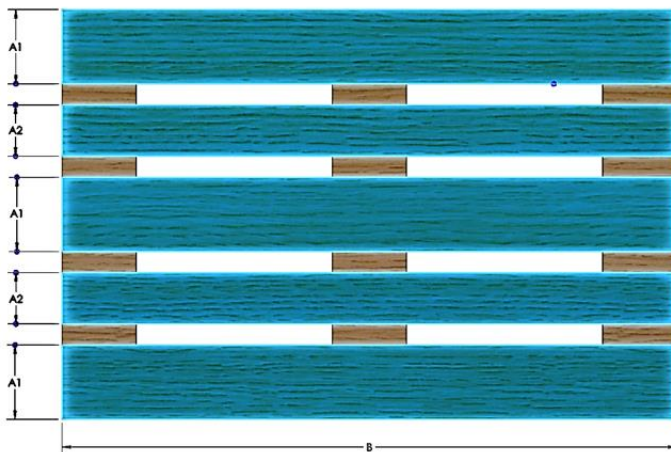


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- The combined surface area of deck boards must be equal to or greater than 50% of the actual surface area of the pallet footprint. **Larger surface coverage is preferred.**



17.2 How to check deck board surface area.



How to Check If Your Pallet's Deck board Spacing Is Compliant

Width of deck boards

$$(A1 + A2) \times B = \text{Combined deckboards Surface Area}$$

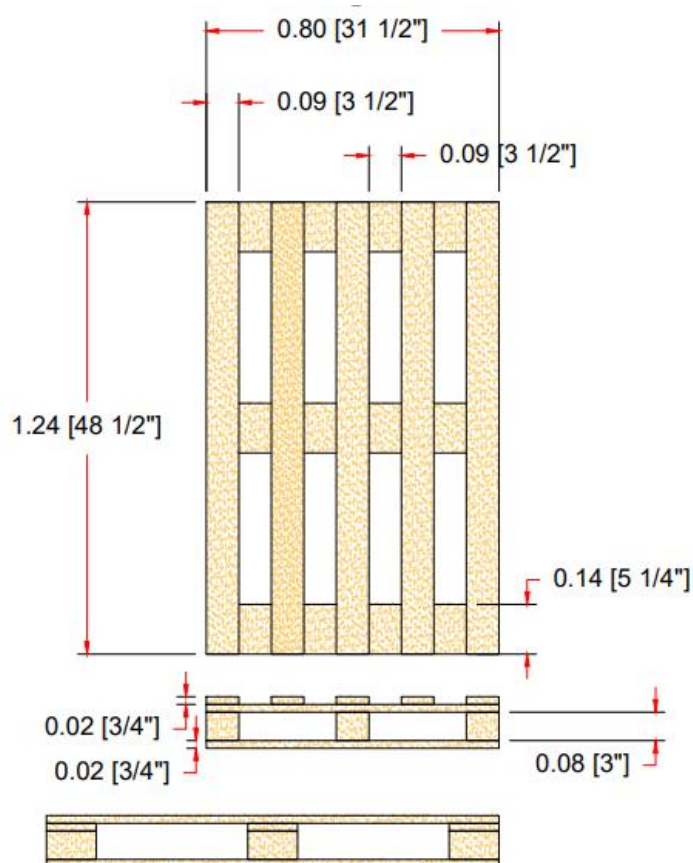
Length of deck boards

D.S.A.

$$\frac{\text{D.S.A.}}{\text{Pallet Surface Area}} \cdot 100 = \text{Deckboard \%}$$

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- For cables, the preferred pallet design is 48.5 x 31.5 in. with 5 stringers and with 3.5 in. space between them. As shown in the image shown below:



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✓ Examples of pallets in good conditions:



✗ Example of Pallets in bad conditions:



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✗ There is an **excess of cable** on one reel, and it is **not** secured properly, resulting in overflow.



✓ The cable has a label, **no excess cable**, and is **stretch-wrapped** and **strapped** to protect its winding.



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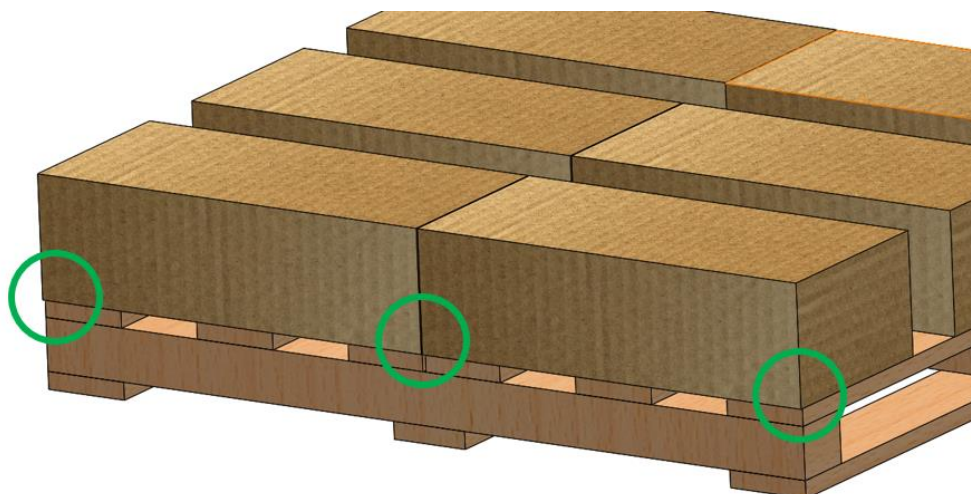


✗ **Example of overhanging:** The carton's corners are unsupported by the deck boards.



✓ **Overhanging** is avoided when all four corners of the box rest on the deck boards.

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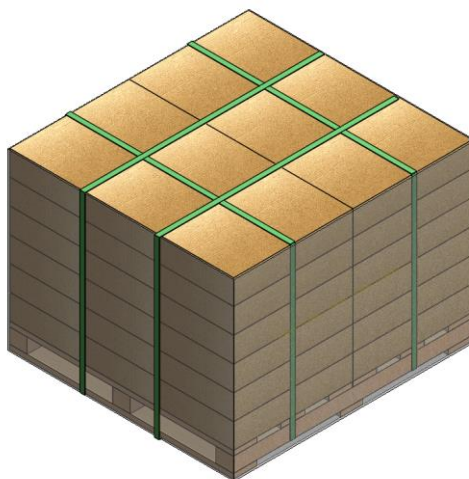


✗ **Insufficient packaging:** The packaging material employed for the material below is not sufficient to guarantee safety during transportation.



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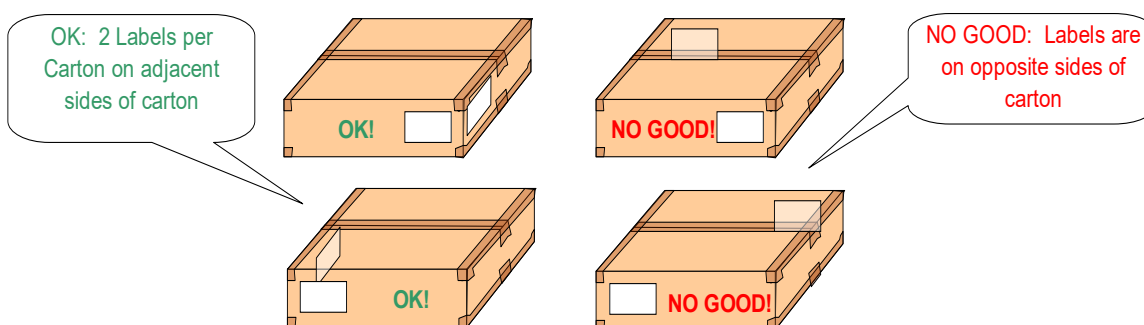
✓ For this type of material, **plastic straps** and **stretch wrapping** are necessary to ensure it remains in position and is transported safely.



18. APPENDIX E

18.1 PALLETIZATION LABEL PLACEMENT

- Each carton shall be labeled with 2 labels on adjacent corners as shown below. When loaded on a pallet at least 1 label must be visible on each box at all times.



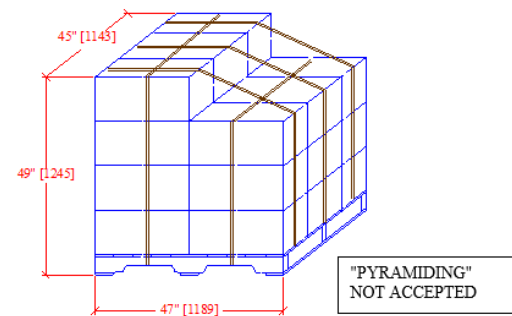
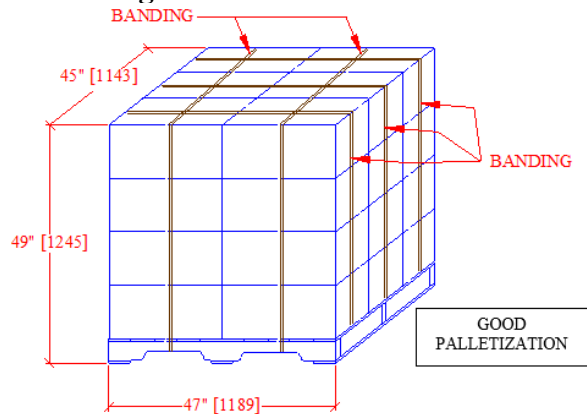
18.2 PALLETIZATION OF CARTONS ON A PALLET

- A Pallet Load packaging system shall withstand a stacking height of 100" (2 Pallet Loads high) in transit and arrive in a satisfactory condition at the final point of use (Mexico or Overseas). Carton integrity must be maintained so pallet loads can be safely stacked in static

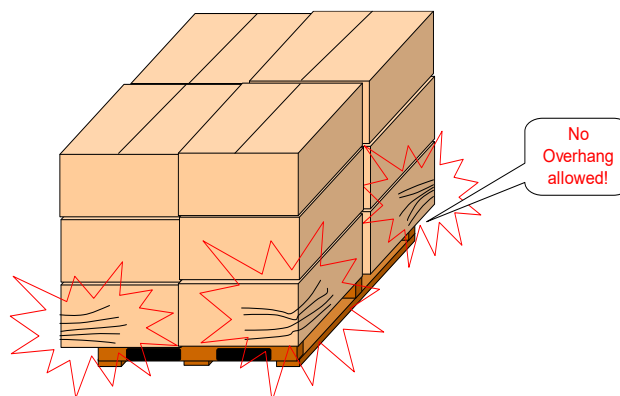
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(non-transit) storage three pallet loads high or to a height of 12' 6" (3.8 m), whichever is greater.

- Do not use "pyramiding," as it prevents unit load stacking during transportation and storage.



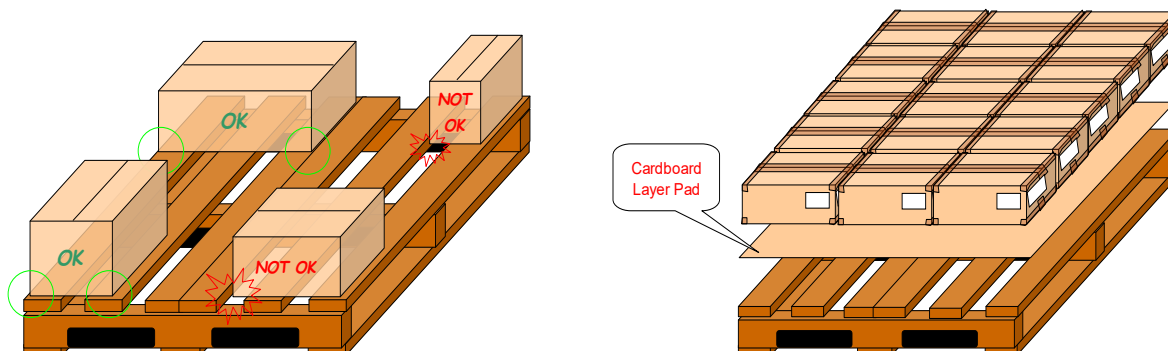
- Cartons must NOT overhang the pallet base at any location.



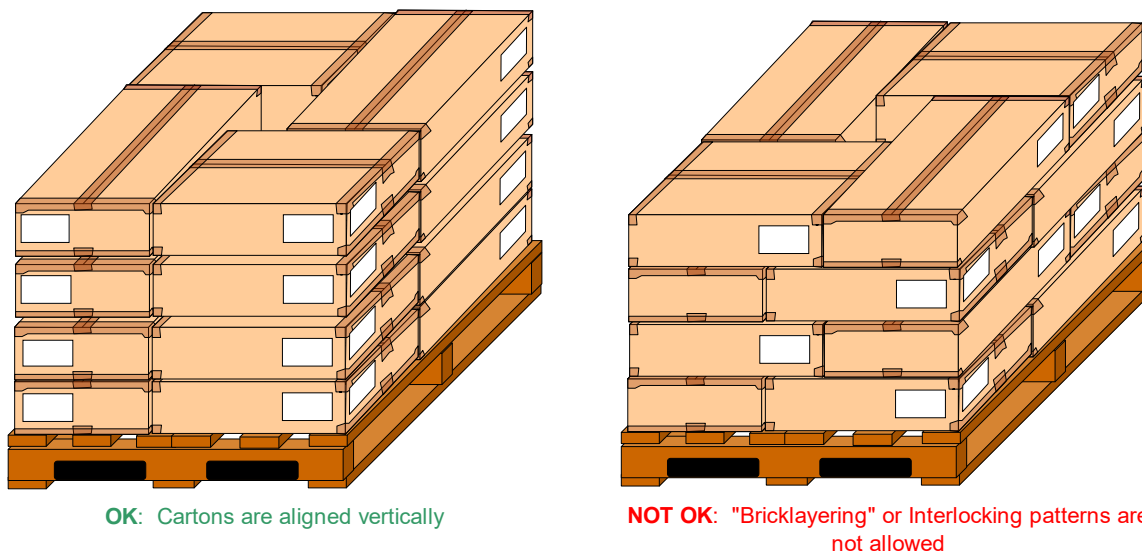
- At least 2 opposite edges of the carton MUST be completely supported by the top deck boards of the pallet so that all 4 corners of the carton rest upon the deck boards.

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- If carton sizes selected are not sufficiently supported on two opposite edges by the deck boards of the pallet, a single layer of 48" x 45" or 47" x 32" corrugate that is **no larger than the pallet** shall be used between the pallet and the bottom layer of cartons.



- Palletizing Cartons in staggered/brick layering fashion is **NOT ALLOWED**.



- Always make sure to stack pallet loads so that the vertical walls and corners of the cartons support each other in straight alignment

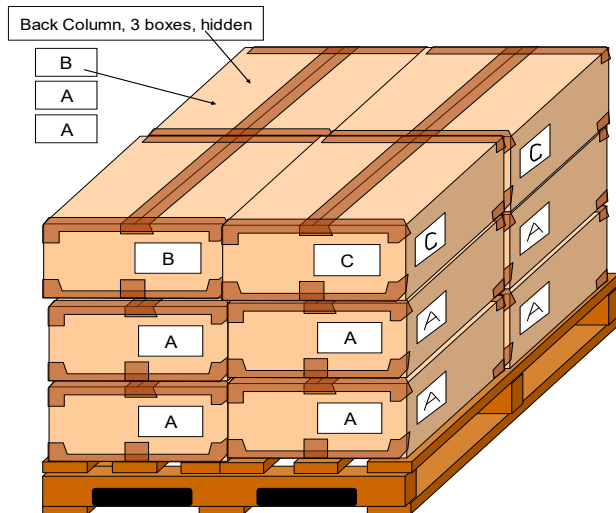
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18.3 MIXED PALLET LOADS: ALLOWABLE SITUATIONS

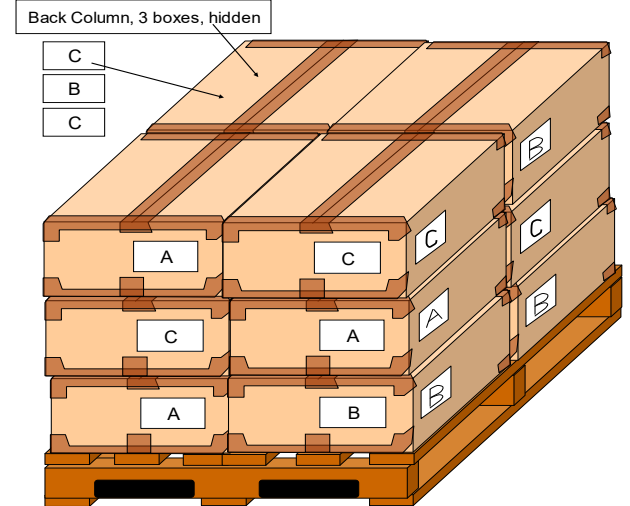
- Mixed Loads (pallets with multiple part numbers):
 - Mixed loads are allowed if the Yazaki order for one part number is not enough to complete a full pallet load of that part number.
 - They are allowed if the cartons used to ship product to Yazaki are very small and do not take up a complete layer on the pallet.
 - The same part number from the same order # should be kept on the same pallet to create a full pallet load of that part number. Leftover cartons from this part number which do not complete the next full pallet load may be used to make a Mixed Pallet Load with additional leftover cartons/part numbers.
- The following methodology must be followed by the component supplier when palletizing orders for a Yazaki Distribution Center:
 - Final Mixed Load Pallets with multiple part numbers must be packed so that the same part numbers are grouped together on the pallet as shown below:

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MIXED PALLET LOAD

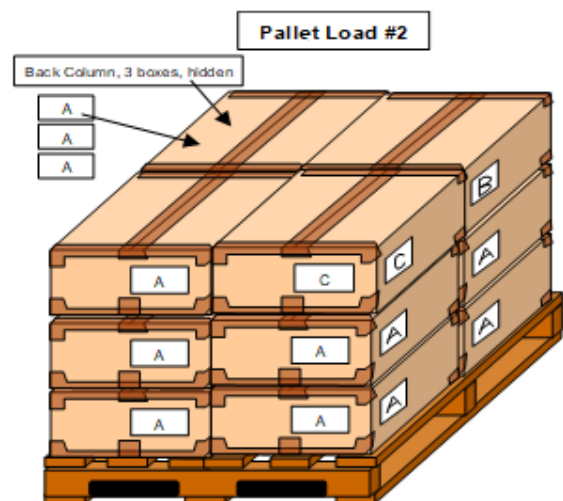
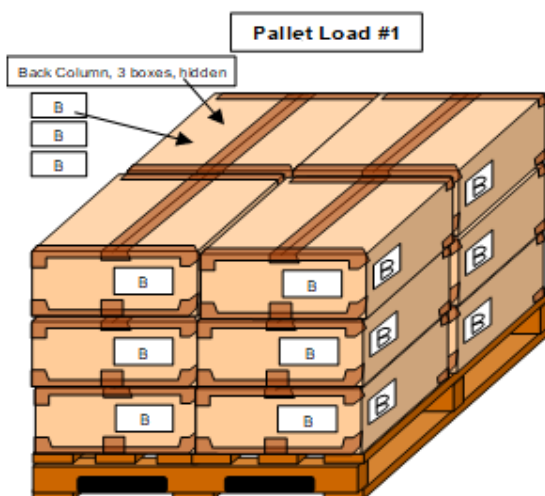


OK! Same part levels are stacked together.



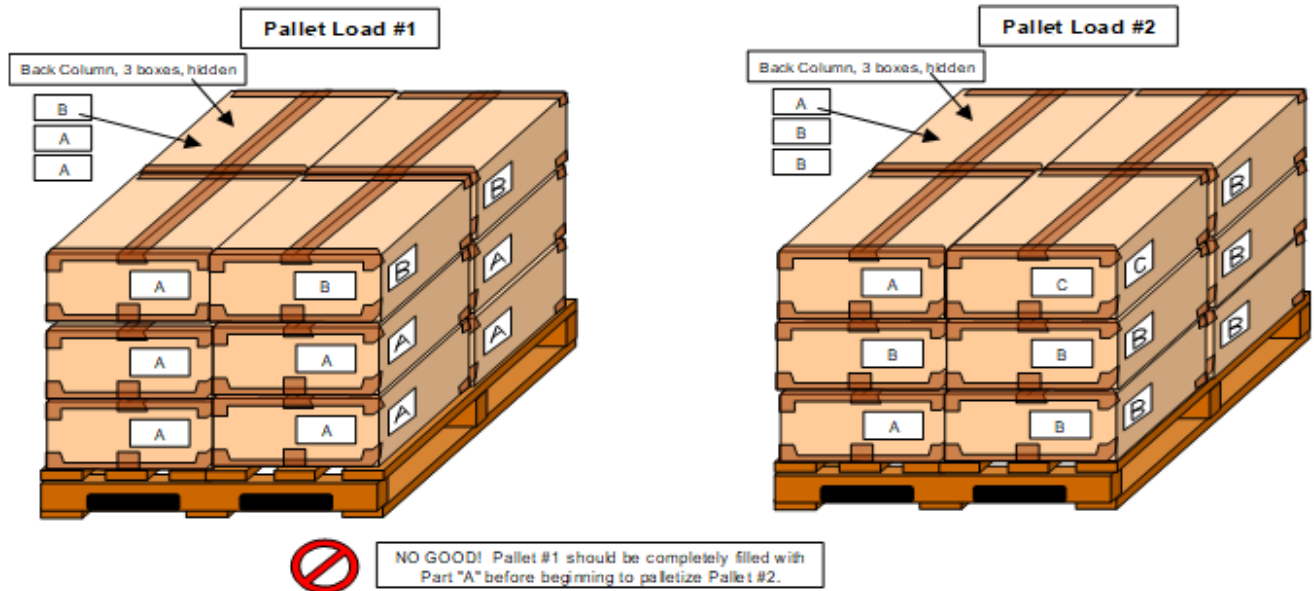
NO GOOD! Part numbers are not stacked together. Same part levels are all over in pallet.

- Pallet loads from the same order should first be packed with a single part number, filling as much of the pallet as possible. Only then should additional part numbers be added to create a mixed pallet. The final pallet should be a mixed pallet as shown by Pallet Load #2.



OK! Pallet Load #1 is completed with "B" Level parts. Mixed Pallet Load #2 contains all "A" level parts + 1 carton of "B" level parts (which would not fit on pallet #1) and 1 carton of "C" level parts.

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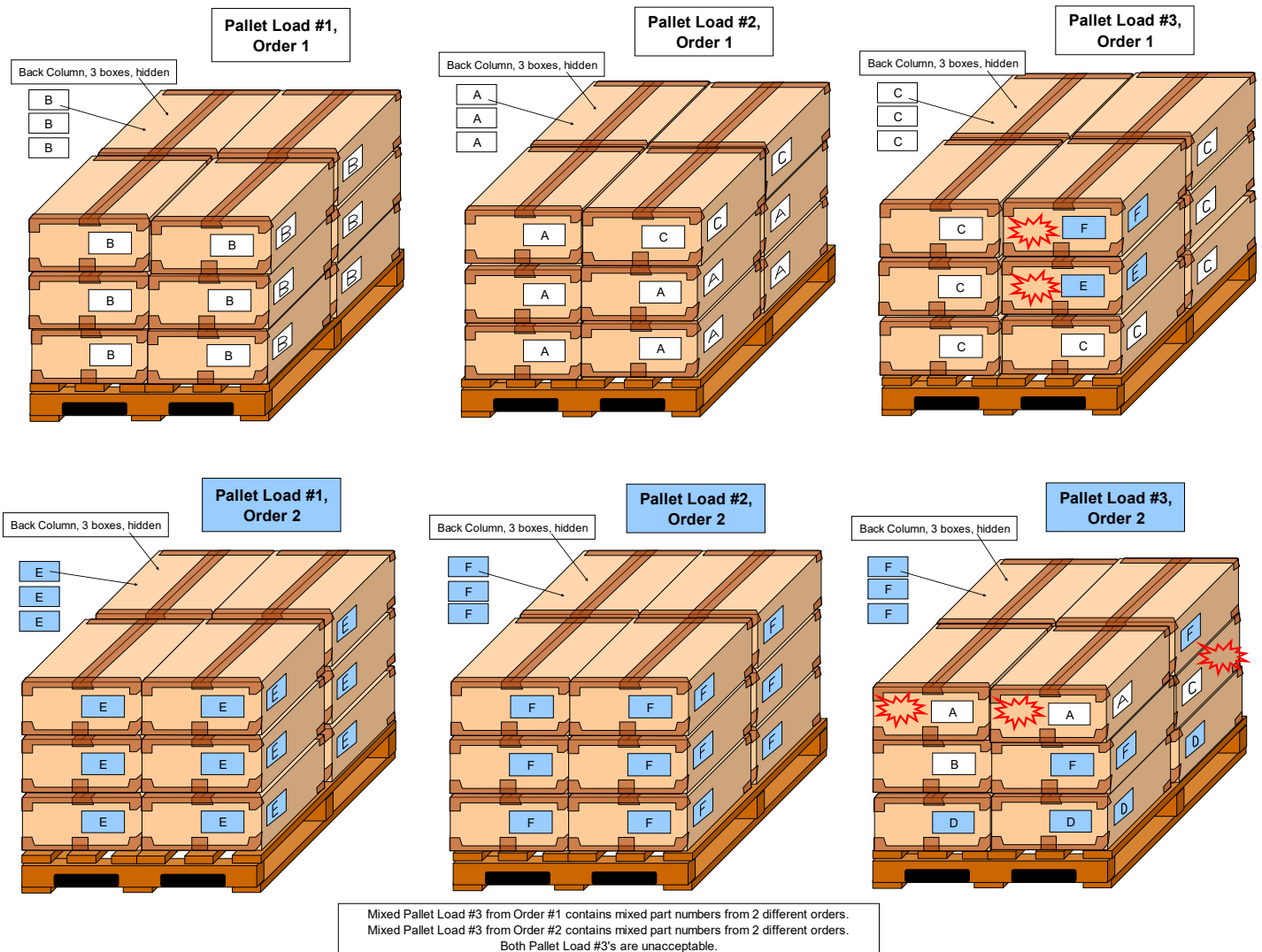


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- Mixed Pallet Loads from different order numbers are **NOT ALLOWED**. The example below illustrates 2 order numbers shipped on the same truck.

ORDER #1:

ORDER #2:



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18.4 MASTER / MIXED LABEL REQUIREMENTS

- The Master Pallet and Mixed Pallet bar codes must be a minimum of 1 inch tall (25.4 mm). The Master label shall contain the data identifier (4S), and the Mixed label shall contain the data identifier (5S).

MASTER PALLET LABEL EXAMPLE



NOTE: ALL text and bar codes should be printed in black.

MIXED PALLET LABEL EXAMPLE



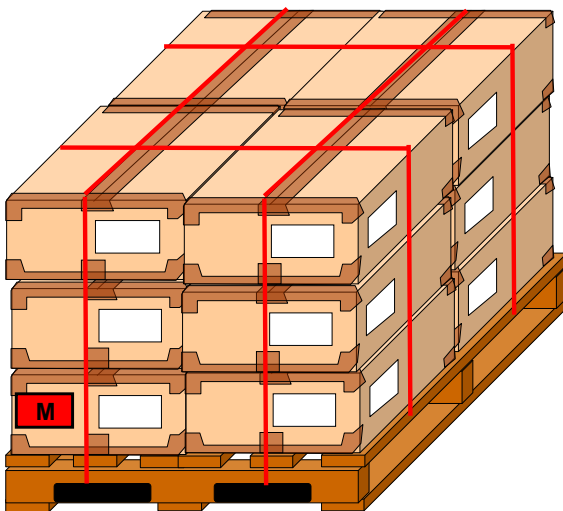
NOTE: ALL text and bar codes should be printed in black.

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18.5 MASTER & MIXED PALLET LOAD LABEL LOCATIONS

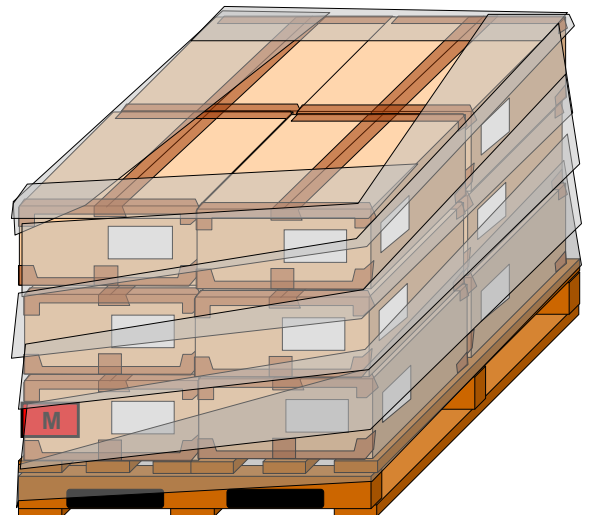
- There must be a minimum of one Master or Mixed label for each pallet shipped. The label location must be on the bottom layer of cartons on the pallet, with the Master or Mixed label facing the loading direction into the trailer for easy visibility.
- Master & Mixed labels must be placed in such a manner that when the pallet load is broken down, the Master/Mixed label remains on the pallet load until the very last layer of cartons is accessed.
 - If the pallet is banded, the banding must not cover the Master/Mixed label. The Master/Mixed label must not be placed over the banding.
 - If the pallet is stretch-wrapped, the Master/Mixed label shall be placed underneath the stretch-wrap on the bottom layer of cartons.
- Master Load Labels and Mixed Load Labels must be placed so that they do not cover any of the carton's barcode (handling unit) labels as per below.

BANDED PALLET



Master/Mixed Label placed on bottom layer of cartons so that it is clearly visible, not covering carton (handling unit) labels, and not over the banding.

STRETCHWRAPPED PALLET



Master/Mixed Label placed on bottom layer of cartons underneath stretchwrap so that it is clearly visible and not covering carton (handling unit) labels

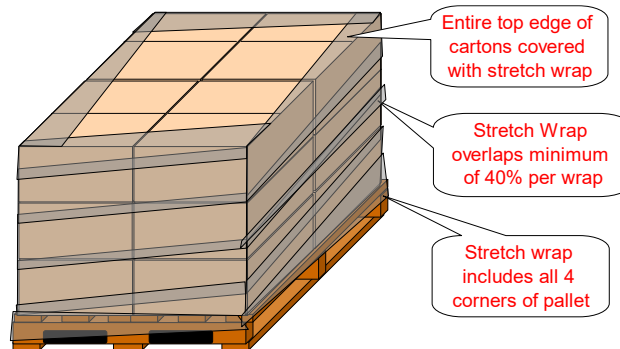


Master OR Mixed Labels in BOTTOM position on pallet in position that will **NOT** destroy the label after banding or stretchwrap is removed. (Label is NOT placed over banding OR label is inside of stretchwrap)

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18.6 STRETCH WRAP

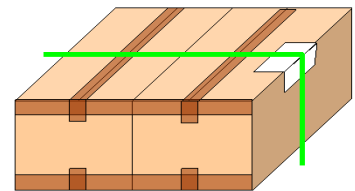
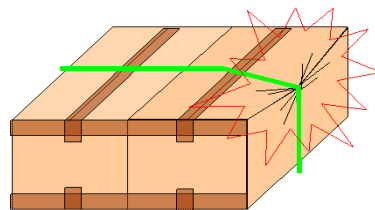
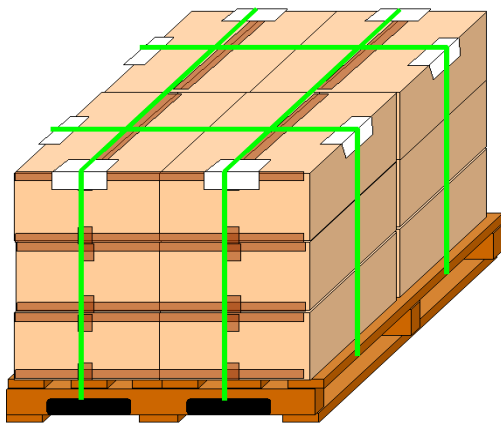
- The use of stretch wrap to secure the cartons to the pallet is preferred. The stretch wrap **should start at the floor and include all 4 corners of the pallet multiple times (3+ times each corner)** in order to fully secure the pallet and minimize shifting of the cartons in transit.
- Required application is a minimum of one layer of stretch film covering 100% of the unit load with all seams overlapping by a minimum of 40%. Edges of the top layer of cartons must be covered on all 4 sides as shown below.



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18.7 BANDING

- If banding is used, the banding (minimum 0.5” wide x 0.021” thick) must be extruded Nylon Polypropylene or made of pre-elongated (oriented) material and able to contract upon itself the extent of its stretch created upon application. **Steel banding is NOT ALLOWED for Standard Item Parts.**
- A minimum of four banding straps should be used (two for the length and two for the width direction of the pallet). Additional banding straps (5 or more) should be used if the cartons being palletized are not in a 2 x 2 layer arrangement on the pallet in order to secure each column of cartons on the pallet.
- Fusing straps or crimp seals should be used to secure banding. Use of buckles is not acceptable unless approved by the Yazaki Component Packaging Engineering team.
- Corner boards (edge protectors) should be used underneath the banding to protect cartons from being inadvertently damaged (crushed / cut) in the banding process.

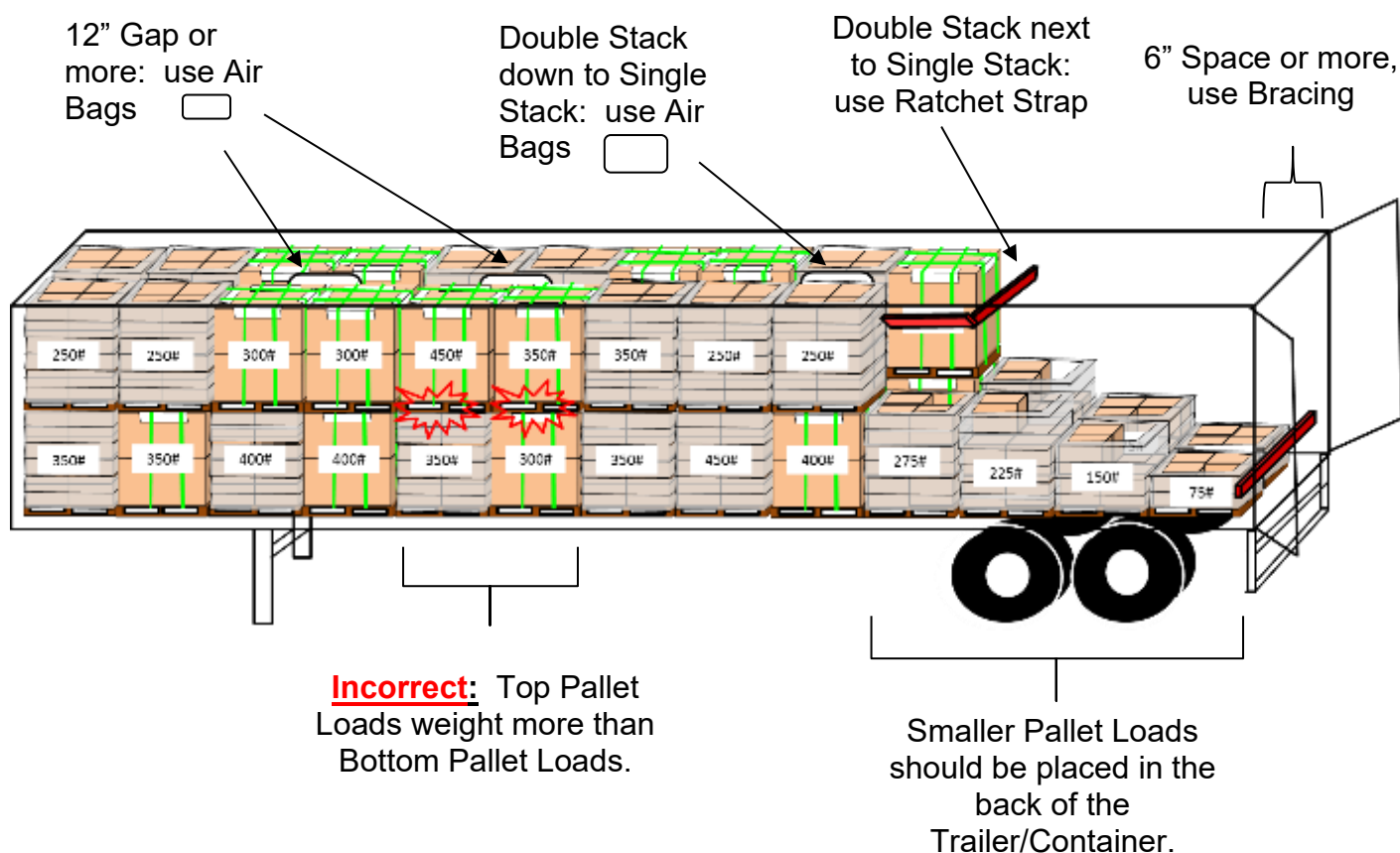


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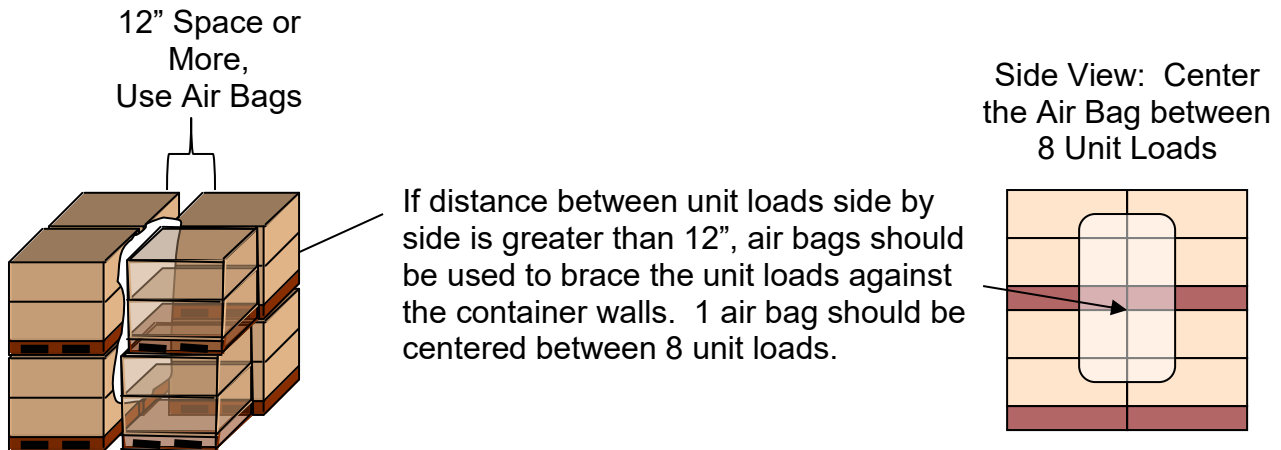
19. APPENDIX F

19.1 BRACING

- Unit Load Shipments require a bracing technique (air bags, ratchet straps, load bars or tension bars) when there is 6" or more of excess space at the rear of the container or trailer. When there is a double stacked pallet next to a single stacked pallet the double stacked pallet must be braced to prevent from falling over. If there is more than 12" between 2 unit loads in any direction sideways, airbags should be used as shown below. Yazaki recommends using one or more of the following bracing methods:



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Bracing Requirements:

Gap at back of Sea Container or Truck Trailer:	Less Than 6"	6" – 45"	Greater than 45"
Bracing Required:	No Bracing Required	ISPM Compliant Wood Braces (2 or more)	ISPM Compliant Wooden Braces – Shipment must be approved by Yazaki Transportation or Production Control

NOTE: Partially Loaded Truck Trailers or Sea Containers, those with greater than 45" of lengthwise excess space at the rear, MUST BE APPROVED by Yazaki Transportation or Production Control prior to shipment, otherwise Yazaki reserves the right to charge back the Supplier for underutilized space in the rear of the Truck Trailer or Sea Container.

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19.2 BRACING EXAMPLES

Air Bag – use when gap between unit loads is 12" or greater.



Cartons are against outside walls of container.



Ratchet Strap – use to brace double stack loads behind single stack loads.



Ratchet Straps – use to secure taller loads next to shorter loads to keep from falling over.



Load Bars – use when loads are very heavy and can't be stacked on top of one another.

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19.2.1 AIR BAGS

- When used, it is preferred that Air Bags should be clear/see-through when possible to aid Customs when inspecting.
- Return system for reuse and prevent loss must be established.
- Should be approved between Supplier and Yazaki before implementation.
- Air Bags should be used between pallet loads that have more than 12” between them so that the air bag pushes the pallet loads against the sea container/truck trailer walls.
- When going from double stacked pallets down to single stacked pallets an air bag should be used to brace the last column of double stack pallets.

19.2.2 RATCHET STRAPS

- Return system for reuse and prevent loss must be established with Distribution Center team.
- Trailers must have E-Tracks on walls to use ratchet straps.
- Should be used to brace taller pallet loads when next to shorter pallet loads or when smaller pallet loads are placed on top of a larger pallet load.
- When bracing the end of the trailer you can use ratchet straps to secure the last pallet loads.

19.2.3 LOAD BARS

- Return system for reuse and prevent loss must be established with Distribution Center team.
- Trailers must have E-Tracks on walls to use load bars.
- Should be used when shipping heavy pallet loads that can’t be stacked on top of one another.

19.2.4 LOCK BARS / TENSION BARS

- Return system for reuse and prevent loss must be established with Distribution Center team.
- Can be used to brace double stacked pallet loads from falling on single stacked pallet loads

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DOCUMENT APPROVAL:

****Each section needs a name; however, the Authored by and Reviewed by names cannot be the same person.****

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***Evidence of authorization is either an electronic approval or a physical signature and stored in a secure location.**

DOCUMENT HISTORY:

***For ONLY new or content revisions, the revision date is equal to the Authored by date and all Authorization dates are the same or after. Note: See Section 4 Rules in Yx-QM-xx-Y-001 Process Documentation Management Policy for format or grammar change revision date rules.**

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Revision Summary	Revision	Date
Initial Release	1.0	31/MAR/2016
Update Template, removed “YNCA” Reference from Document, Update Appendix F: Bracing Section, Replace CPDF Image, and add SLCR reference	2.0	28/FEB/2017
Update Labeling section and Template format	3.0	13/JUN/2017
Update Template and Shipping Locations table, remove CPDF reference with USPEC, update Document Approvals	4.0	12/DEC/2018
Update Affiliate Locations Table and NPS requirements	5.0	16/APR/2019
Update document with new members of Yazaki Component Packaging Engineering team. Revisions have been made to Sections: 1 Purpose; 2 Key Contact; 3.1 Pallet Dimensions; 4.1 Carton Design; 5.1 Layout; 6 Pallet Construction; 7 Palletization; 7.2 & 7.3 Master & Mixed Pallet Load Label; 10.1 Trial Shipment Criteria; 11.1 Damage Documentation & Resolution; 13 Special Packaging Systems; 13.1.2 Wire Fiber Drums; 13.1.5 Additional Packaging Protection for Special Parts; 14 Appendix A; 15 Appendix B; 16 Appendix D; 17 Appendix E	6.0	20/JUN/2025