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| Document Number and Revision: | 425-1228-01 Rev 58 |

Packaged Product Marking Requirements and Graphics Standards

1 Overview

This document defines the Packaged Product Marking requirements for complying with various global and country specific regulations and compliance requirements. It also specifies the proper application of the Oracle logo and "O" tag, based on the Oracle Redwood Brand Style Guide. These packaged product graphics have been approved by Oracle Corporate Branding.

Instructions for how to apply Oracle Packaged Product Graphics Standards are intended to be used by Oracle Package Suppliers and Print Die Makers when making packaging for Oracle hardware products.

All Oracle hardware packaged products shipped to OCI or Oracle external customers must demonstrate compliance to this specification. This requirement includes all packaged products designed and/or manufactured by Oracle, JDMs (Joint Development Model), EMs (External Manufacturers), and RVs (Repair Vendors).

OEM (Original Equipment Manufacturer) supplier packaging requires Material Identification Marking, Wood Marking, and where applicable; CE and UKCA Marks (reference 8209639 artwork).

2 Audience

Oracle Hardware Development Packaging Engineering

Oracle, JDMs (Joint Development Model), EMs (External Manufacturers), RVs (Repair Vendors) and OEM (Original Equipment Manufacturer) suppliers.

Packaging Suppliers.

Packaging Print Die Makers.

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Scope

All Oracle hardware products shipped to OCI or an Oracle external customer, must comply with the required Packaging Material Identification, Wood, Compliance (CE Mark and UKCA Marks) markings.

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Area of Responsibility

The Oracle Hardware Development Packaging Engineering is responsible for maintaining this document.

7 DEFINITIONS

- In this document, the terms "**Product**" and "**Packaged Product**" are used to represent the Oracle Hardware product by itself, and when the product is packaged for shipment.

8 APPLICABLE DOCUMENTS

- 412-1186
- 914-1742, Global Supplier Engineering: Environmental Specification - Product Compliance
- 990-1237, Corp: Restriction of Hazardous Substances (RoHS) Compliance and Declaration Policy
- ISPM-15 (International Standards for Phytosanitary Measures No. 15)
- EU Commission Decision 97/129/EC
- ISO 780 – Pictorial Marking of Handling of Goods
- ISO 11469 Plastics – Generic identification and marking of plastic products
- ASTM D5445 – Standard Practice for Pictorial Markings for Handling of Goods
- RTST – Rack Transport Stability Team, Safer Handling Practices for Server/Storage Rack Products
- Oracle Redwood Brand Style Guide

9 ORDER OF PRECEDENCE

- This specification shall be used in conjunction with the packaging component specification drawing, however this document takes precedence for all packaged product marking requirements, and container graphics standards.
- PSG container artwork structured in Fusion, takes precedence over the graphic requirements for packaging containers in this document.
- The latest revision of all artwork in Fusion takes precedence over artwork images in this document.

10 DEVIATIONS

- Deviations must comply with Oracle Operations Deviation (DA) process. Deviations originate with Oracle Operations and must be authorized by Oracle Packaging Engineering.

11 PACKAGING MARKING AND CONTAINER GRAPHICS RESPONSIBILITY

Responsibility for applying this specification for Marking Packaging Materials and Creating Container Graphics:

- REQUIRED MARKING OF ALL PACKAGING MATERIALS = Packaging Supplier
- CONTAINER GRAPHICS (NGA, NLA, and GLO Graphics) = Packaging Supplier and/or Print Plate Maker
- PRODUCT SPECIFIC GRAPHICS (PSG Graphics) = Oracle Packaging Engineering
- CONTAINER GRAPHIC PRINT CARD REVIEW/SUMITTAL = EM/RV
- PRINT CARD APPROVAL = Oracle AML Packaging Suppliers (primary), or Oracle Packaging Engineering

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Responsibility	Oracle Packaging Engineering	Oracle AML Packaging Supplier	Print Plate Maker	EM/RV Packaging Supplier	EM/RV
Part Information Marking		X		X	
Material Identification Marking		X		X	
Wood Marking		X		X	
BMC		X		X	
NGA – No Graphics Applied			X		
NLA - No Logo Applied Graphics			X		
GLO – Generic Logo Only Graphics			X		
PSG - Product Specific Graphics	X				
Graphics Print Card Review/Submittal		X			X
Print Card Approval	X	X			

Table 1. Roles and Responsibility for Marking, Graphic Print Plate Creation and Approval

12   REQUIRED MARKING OF ALL PACKAGING MATERIALS

12.1   General Marking Requirements

Color: Contrasting color from packaging material. Black preferred.

- o   Black   GCMI #90   On Kraft corrugated fiberboard, wood, metal or foam
- o   White   GCMI #91   On black conductive corrugated fiberboard, or black foam
- o   Red   GCMI #75   Only when specified by artwork or specification drawing

Marking Method: **Marking Method is at the Vendors discretion unless defined on the component part drawing or by the requirements herein. Acceptable marking methods include:**

- o   **Direct printing (Flexographic, Digital printing, Ink Jet…)**

- o   **Stamping**

- o   **Labeling**

    The label stock shall match the material it is being adhered to. It must remain adhered and meet the print quality requirements for a period of 6 months under the following storage and transportation conditions:
    - • Temperatures from -40°C to 85°C

    - • Humidity up to 90%

    - • Normal levels of artificial light and sunlight

    In accordance with global restrictions on hazardous substances, all materials which comprise the label, adhesive, and ink must be compliant with *914-1742, Global Supplier Engineering: Environmental Specification - Product Compliance*. For more information refer to *990-1237, Corp: Restriction of Hazardous Substances (RoHS) Compliance and Declaration Policy*. Even individual labels which do not have an Oracle part number, or which are a part of a set of labels, must adhere to these policies and specifications.

    Testing: Labels must meet the requirements of Annex A of EIA-556-B. These requirements and tests are intended to ensure that labels and marks can withstand extended long-term exposure to a variety of indoor environments, remain affixed to products, and are readable and scannable for the intended life of the product.

- o   **Embossing (Pin Print) (interior corrugated pieces only)**

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- o   Tooling: Mark included in the tooling or mold of the part

- o   Stenciling

Location: In a visible location as defined in the component part specification. If not defined on the component part specification, the location is at the vendor's discretion.

Preferred Locations:

Containers: Part Information Marking, Material Identification Markings and BMC shall be centered on specified panel. See container styles graphic examples below for location.

RSC/FOL – bottom major flap

HSC – top minor flap

RTF/OPF/FPF – bottom panel

FT-DST – bottom panel of bottom tray

Double Cap + Sleeve – bottom of major sleeve panel so it is covered by bottom DST/cap

Corrugated Sheets/Die Cuts: Centered on largest panel

Molded parts: Included in tooling on largest flat surface

Pallets/Wood: On stringer

Cushioned Pallets: On vertical surface of wood stringer or block; if no vertical surface exists, then on top deck of pallet (not covered by deck channels)

Wood Blocks or Plywood: Centered on largest finished surface

Size: Maximum Text Height: 13 mm

Minimum Text Height: 6 mm

All text must be the same height

Exceptions: The following items may be marked, but are not required to be marked.

- o   Tape

- o   Banding / Banding Clips

- o   Edge Protectors / Corner Guards

- o   Stretch Wrap / Shrink Wrap

- o   Dunnage

- o   Hardware (Bolts, Washers…)

- o   If the maximum surface area of the packaging is ≤ 50cm² it may not be marked directly on the package, but rather shall be explained in the product instructions.

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12.2   Part Information Marking

Part Number and Revision Number

- o   XXXXXXX-XX [PART NUMBER-REVISION]

Vendor (Packaging Supplier) Name

- o   VENDOR NAME [IF NOT INCLUDED IN BMC]

Date of Manufacture DOM

- o   DOM: YYYY-MM-DD

12.3   Material Identification Marking

To comply with China RoHS, Korean, Japanese, ISO, EU Commission Decision 97/129/EC, and other international and global requirements, all packaging materials shall be marked with the Four-Way Chinese, Korean, Japanese and ISO Material Identification Marks below.

Material Code Numbers: Material Codes may be one-digit (1) or two-digits and include a leading zero (0).

Single Material Items: If the components of the packaging materials are easily separated, they shall be marked separately. All four Material Identification Symbols for each material shall be used if they are included below.

Four-Way Marking: Typical Graphic Symbol Location:

Upper Left – ISO/EU Graphic, Upper Right – Korean Graphic, Lower Left – Japanese Graphic, Lower Right – Chinese RoHS Graphic


| ISO/EU GRAPHIC | KOREAN GRAPHIC |
| JAPANESE GRAPHIC | CHINESE RoHS GRAPHIC |
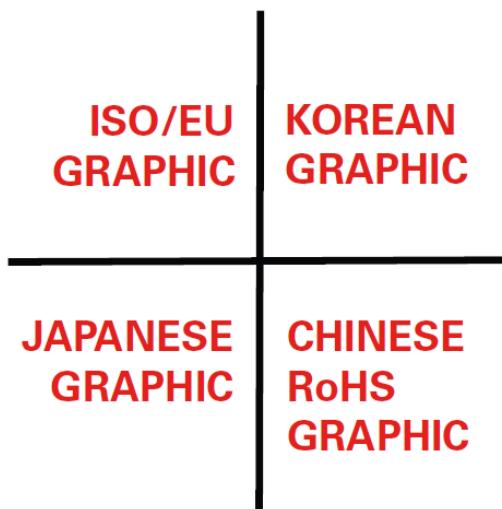
Figure 1. Four-Way Marking showing Graphic Symbol Locations

Mixed Material Items: If the components of the packaging materials are tightly integrated and cannot be separated easily, they can be labeled together. If the materials are labeled together, the material code for each shall be separated by a forward slash (/) character.

Example: A cushioned pallet with wood, (White) LDPE and steel components shall include the following marks. If a material has multiple Material Identification Codes, then all shall be included.

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Figure 2. Example of Mixed Material Identification Marking.

Size: The overall die height of the Four-Way Mark shall be 75 mm maximum. Interior packaging, the minimum die height shall be 10 mm for (a single triangle and any material abbreviation under the triangle), unless printing method (i.e. inkjet) limits height, then overall height shall be maximum that the printing method allows.

Additional Korean Marking for non-white plastics: The Korean Government requires that all non-white plastics have an additional marking in Korean text that translates in English to 'Difficult to Recycle'. Packaging Material Marking Artwork 412-1186-XX has Artwork with and without this additional marking – one artwork version should be used, but not both. Any colored material other than 'white', including 'pink' colored anti-static foam requires this additional Korean text.

Figure 3. Korean language text meaning 'Difficult to Recycle', required for Non-White plastics. .

Artwork: Available in Fusion   412-1186-XX

    (412-1186 Artwork takes precedence over images in this document)

    ('White', 'Non-White' does not print)

**Polyethylene Terephthalate**

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High Density Polyethylene
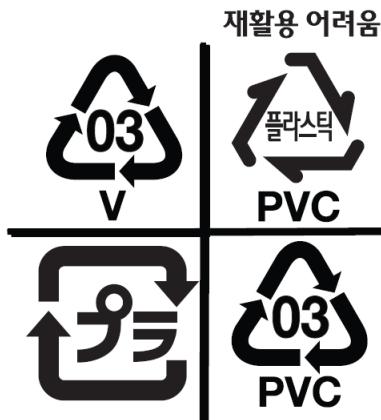
White

Non-White

Polyvinyl Chloride

White

Non-White

Low Density Polyethylene

White

Non-White

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Polypropylene
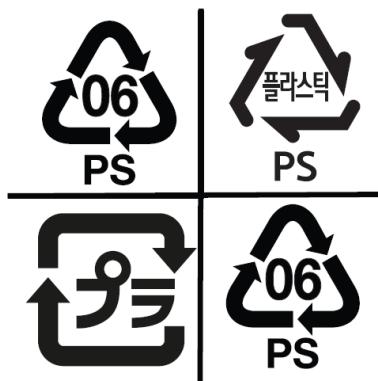
White

Non-White

Polystyrene

White

Non-White

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Other Plastics

<div align="center">
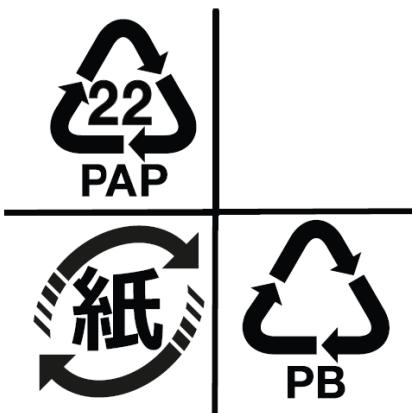
White   **Non-White**

</div>

Corrugated Fiberboard

Paperboard

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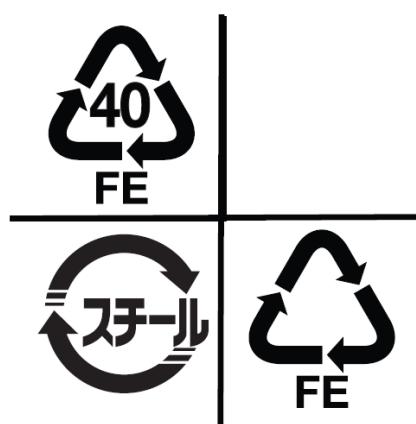
Non-Corrugated Solid Fiberboard

Paper

Steel

Non-Corrugated Solid Fiberboard

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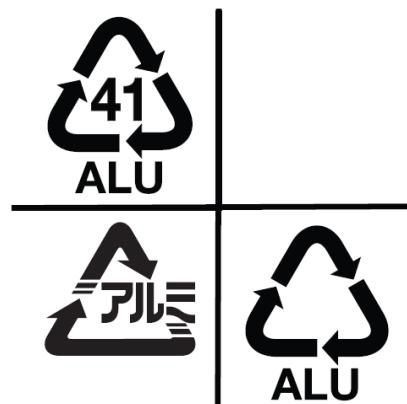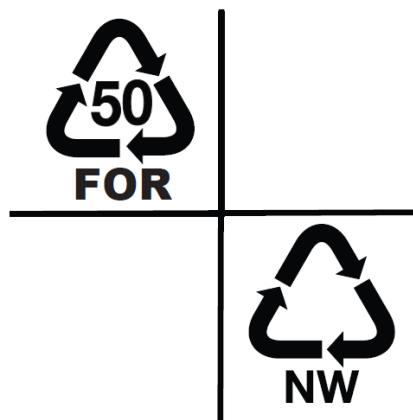
Aluminum

Wood

12.4   Wood Marking

Non-manufactured wood materials, shall display an officially approved heat-treated or fumigation marking per ISPM-15 (International Standards for Phytosanitary Measures No. 15). The requirements in the most current revision of ISPM-15 and/or all regional and global regulatory requirements supersede this document.

Size: Legible without magnification and comply with the requirements of ISPM-

**Method:** Direct printing or stamping on wood
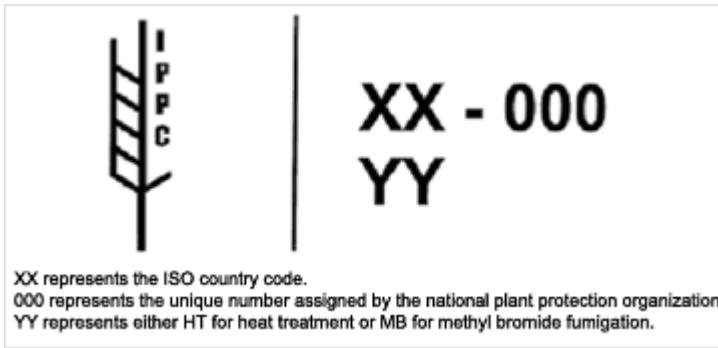
Figure 4. Example of Generic ISPM-15 Wood Marking

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12.5 Box Makers Certificate (BMC):

Application: Corrugated Fiberboard Containers are required to be marked with a Box Maker's Certificate

Location: As defined in the component part specification. If not defined on the component part specification, follow preferred locations below

Preferred Locations:

Containers: (centered on specified panel along with Part Information Marking, and Material Identification Markings. See Container Styles, artwork examples below)

RSC/FOL – bottom major flap

HSC – top minor flap

RTF/OPF/FPF – bottom panel

FT-DST – bottom panel of bottom tray

Double Cap + Sleeve – bottom of major sleeve panel so it is covered by bottom cap

BMC Size:

Boxes

3 inch [76.2mm] diameter circle, or 3.5 x 2 inch [88.9 x 50.8mm] square

Small Boxes

2 inch [50.8mm] diameter circle, or 1.25 x 2.25 inch [31.7 x 57.2mm] square

**Method:** Direct printing on corrugated fiberboard
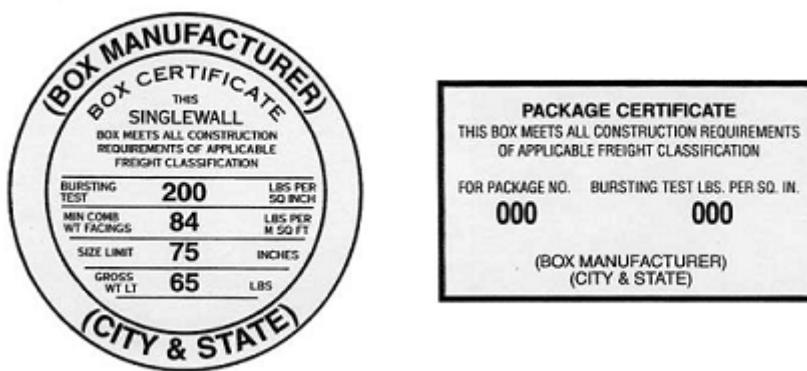
Figure 5. Example of BMC shown in 2 different formats

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13 PRINTING Graphic Requirements for PACKAGING containers

When printing a container, then all of the required marking elements above, shall be included on the print plate, so that the entire container is printed vs. having mixed marking methods on a single container.

General Requirements:

Printing Color: (if not specified on the artwork or component specification)

Kraft corrugated fiber board or foam (other than back foam): Black GCMI #90
Black conductive corrugated fiber board, or black foam: White GCMI #91
When specified on kraft corrugated fiber board: Red GCMI #75

13.1 Determine shipping container graphic requirements

How to read and use this section of the document. First identify the 3-letter graphic code that applies to your container to determine what artwork elements are required to print.

The 'printing note' on the container specification drawing, specifies the 3-letter code (NGA, PSG, NLA, or GLO) which indicates the graphic standard that applies to that container:

NGA   No Graphics Applied

PSG   Product Specific Graphics

NLA   No Logo Applied

GLO   Generic Logo Only graphics

The 3-letter code can also be found embedded in the container specification 'part number description' in Fusion. The part number description is also located within the Title Block, on page 1 of the container specification drawing.

KEY:

Colored text is used throughout this document to help quickly find related information.

GREEN text is used to specify which graphic standard shall be applied:

- **NGA**

  - If NGA, then skip to page 41

- **PSG**

  - If PSG, then skip to page 44

- **NLA**

- **GLO**

BLUE text is used for any information related to the Artwork Matrix

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- **Length** (L) x **Width** (W) x **Height** (H) **Dimensions** in **Figures 6-8**, and **Columns A-C** of the **Artwork Matrix**

- **Die Height** and **Margin dimensions** for sizing and locating artwork is mapped in **Figure 8,** and specified in **columns D-L** of the **Artwork Matrix.** These correlate to the dimensions contained within a row of the **Artwork Matrix**, and are used together to properly size and layout the artwork elements for any container styles, using one of the **graphic standards**.

  RED text is used to identify the **Large Container** vs. **Small Container Artwork Matrix**

  Yellow Highlight is used to identify the 'Conditions' for choosing between **Large Container** or **Small Container Artwork Matrix**
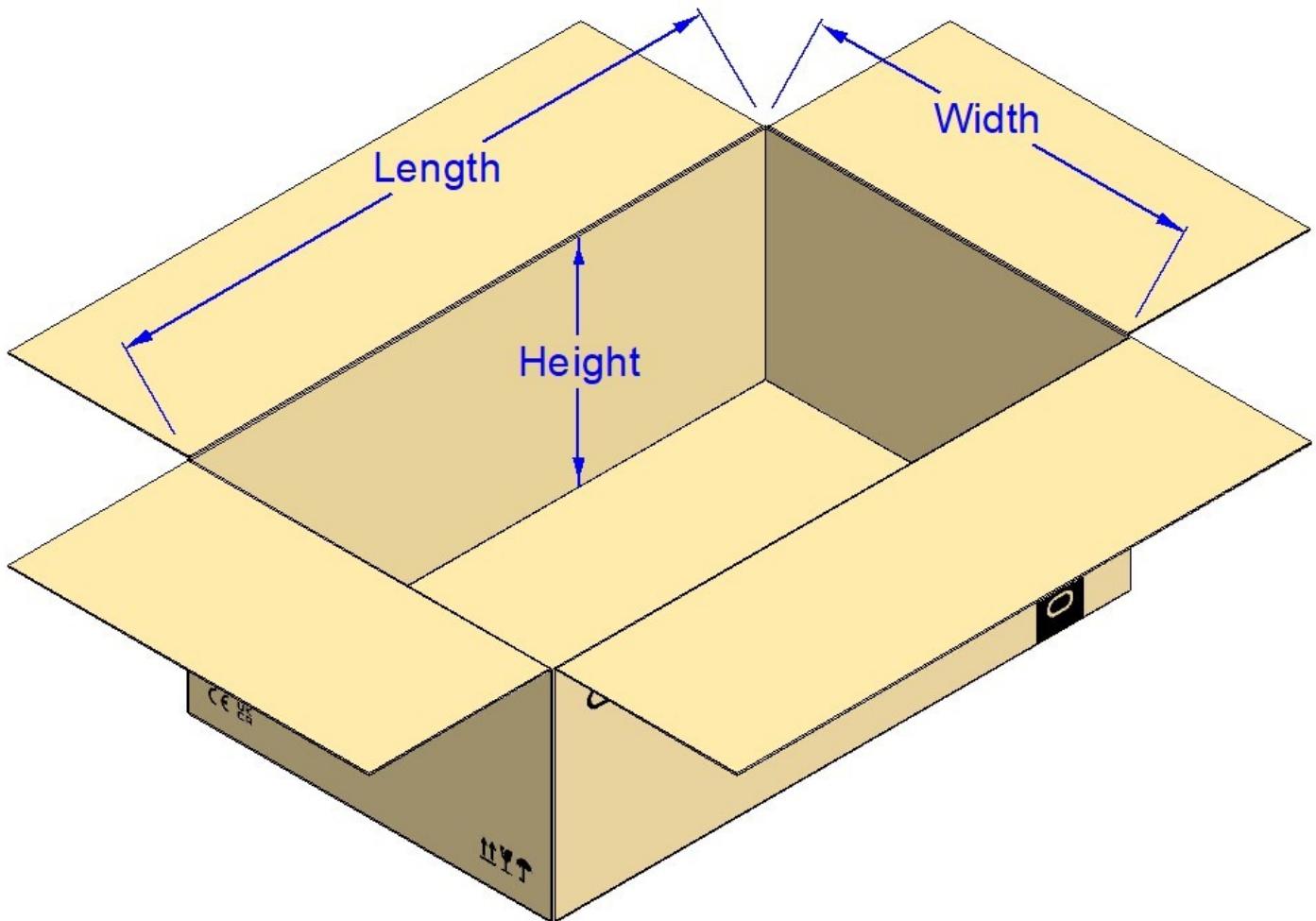
Figure 6. Example showing inside dimensions of an RSC container (Length x Width are the opening dimensions of the box in the box's normal shipping orientation).

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CONTAINER FLAP AND PANEL IDENTIFICATION

FLAP 1 (MINOR FLAP)	FLAP 2 (MAJOR FLAP)	FLAP 3 (MINOR FLAP)	FLAP 4 (MAJOR FLAP)
PANEL 1	PANEL 2	PANEL 3	PANEL 4
WIDTH	LENGTH	WIDTH / HEIGHT	LENGTH
FLAP 5 (MINOR FLAP)	FLAP 6 (MAJOR FLAP)	FLAP 7 (MINOR FLAP)	FLAP 8 (MAJOR FLAP)

MANUFATURER'S JOINT
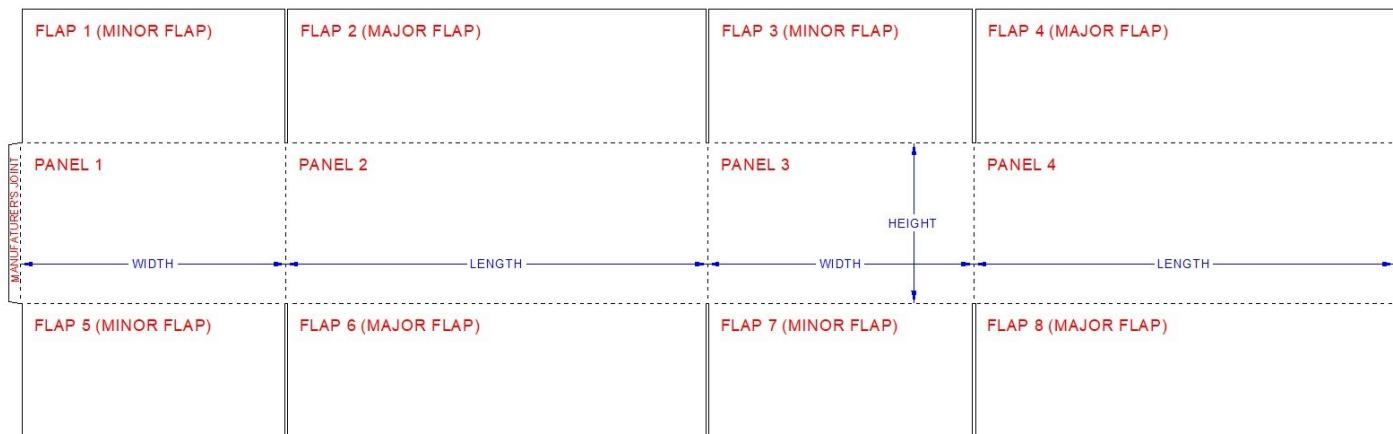
Figure 7. Outside view of an RSC container laid out flat showing numbered major and minor, flaps and panels.

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Map of Container Artwork with **GLO (Generic Logo Only)** Graphics showing the die height dimension for sizing each artwork element, as well as the margin dimensions for locating artwork elements from a core line or edge. These correlate to the dimensions specified within a given row of the **Artwork Matrix** below.
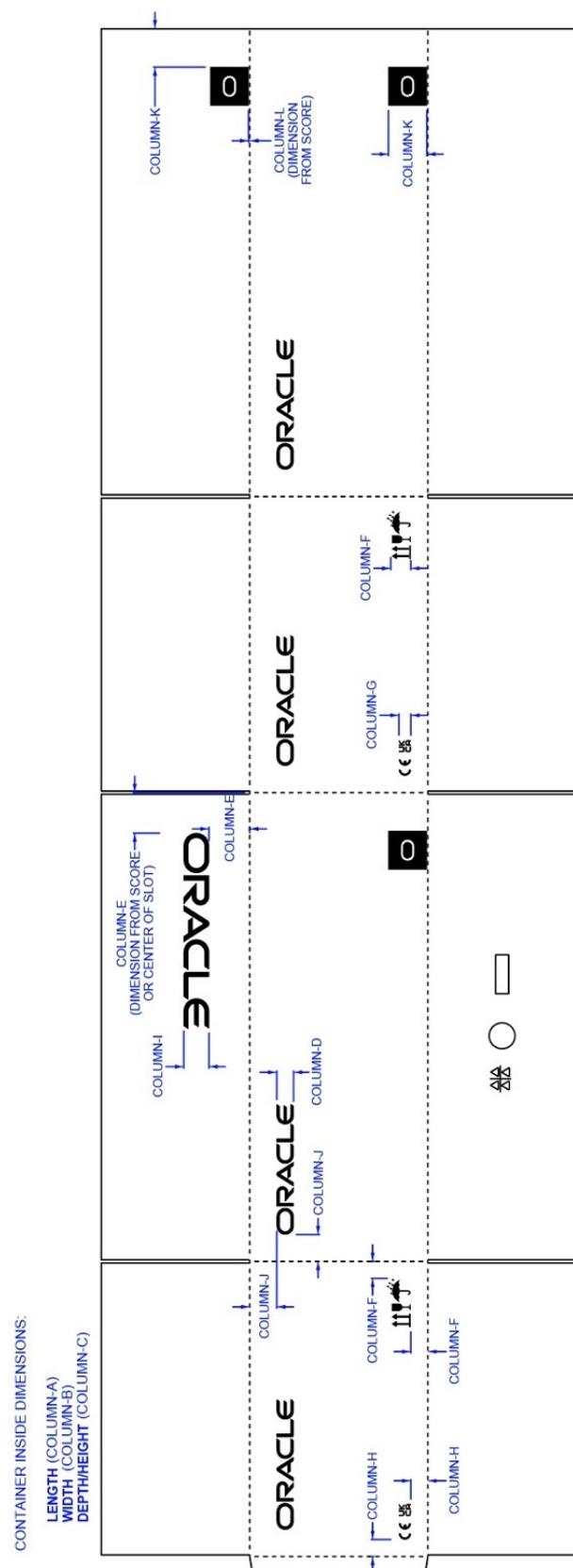
Figure 8. Dimensioned GLO Graphic Artwork Map

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Print Plate Maker Graphic Artwork Instructions:

Based on these codes (NGA, PSG, NLA, or GLO), see below for the marking/printing requirements for each graphic standard:

- **NGA**   **No Graphics Applied**

    - **Part Information Marking**

    - **Material Identification Marking (required on all containers, marking requirement may be satisfied with 950-1419-XX label on *outer* shipping containers)**

    - **BMC**

    - **CE Mark and UKCA Mark (required for *outer* shipping container, marking requirement may be satisfied with 950-1419-XX label)**

- **PSG**   **Product Specific Graphics**

Oracle Packaging Engineering will define/create artwork for PSG containers. The part number for that artwork should be specified in the notes on the Oracle container specification drawing, and should also be structured below the Oracle container part number in Fusion. This artwork prints 1:1 on the container.

- **NLA**   **No Logo Applied graphics**

    - **Part Information Marking**

    - **Material Identification Marking**

    - **BMC**

    - **Artwork Matrix columns F, G, and H**

        - **Handling Symbols**

- **GLO**   **Generic Logo Only graphics**

    - **Part Information Marking**

    - **Material Identification Marking**

    - **BMC**

    - **Artwork Matrix columns D, E, F, G, H, and L**

        - **Oracle logo**

        - **Handling Symbols**

        - **CE Mark, UKCA Mark**

        - **"O" tag**

If NGA, then skip to page 41

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If **PSG**, then skip to page 44

If **NLA** or **GLO**, proceed to instruction number 1 below.

1. Using Figures 5 and 6, determine the **Length** (L) x **Width** (W) x **Height** (H) dimensions of your container. The opening of the container is generally defined by the Length and Width dimensions. The container opening (**Length** x **Width)** is also usually the top of the container.

2. Determine the 'normal shipping orientation' of the container. In most cases, the container ships sitting on its length and width dimension, and the height dimension is perpendicular to the ground.

   If the container height is ≥5x the container width, then the container will tend to naturally fall over onto its side (vs. shipping standing up). If this is the case, assume that this container's normal shipping orientation will be to ship on its largest panel (width becomes the height) – and apply the artwork to the container assuming this expected shipping orientation. This is the exception to the rule, and only applies to RSC or FOL containers that have a tall Height dimension compared to its Width. Otherwise it's always preferred that a containers 'Height' is oriented upright during shipping for optimum compression strength.

   Container Artwork elements shall be applied in the container's normal shipping orientation.

   Starting with the **Width** and **Height** (also called Depth) dimensions of your container, go to the **Artwork Matrix** and determine which of the following Conditions apply:

   Large Container Conditions: <mark>if width ≥13 inches and height ≥8 inches</mark>

         - or -

   Small Container Conditions: <mark>if width <13 inches or height <8 inches</mark>

3. After you've determined which of the **Large Container** or -**Small Container Artwork Matrix** applies, next find the container **Width** in **Column B**. To further narrow down the correct row, also find the **Height** of your container in **Column C**.

4. If **Large Container Artwork Matrix** applies, then the row (1-6) where both the **Width** and **Height** conditions are satisfied, is the row you will use when determining the die height and margin dimensions for applying the artwork elements to your container. If **Large Container Artwork Matrix** applies, then skip to instruction number 8.

5. If **Small Container Artwork Matrix** applies, then you'll need to satisfy the containers **Width**, **Height** and **Length** dimensions in **Columns B, C and A** to determine the correct row (7-9). Then use that entire row when applying the die height and margin dimensions to the artwork elements on your container.

6. As a guideline, examples of how the marking/printing requirements are applied to all common container styles are illustrated for each of the graphic standards above (**GLO** examples for different size containers are specified by **Artwork Matrix** row vs. simply **Large** or **Small Container**).

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Large Container Artwork Matrix Conditions: if width ≥13 inches and height ≥8 inches

	A	B	C	D	E	F	G	H	I	J	K	L
	Container **Length**	Container **Width**	Container **Height**	**Oracle logo** die height	Oracle logo top and left margins	**Handling Symbols** die height, and right and bottom margins	**CE Mark, UKCA Mark** die height	CE Mark, UKCA Mark Left and bottom margins	Oracle logo die height (on top of box)	Oracle logo (on top of box) left and top margins	**O tag** block die height and right margin	O tag bottom margin
1		≥13 inch	≤4 inch	No logo length or width panels	No logo length or width panels	12mm Length panel only	8mm length panel only	12mm	23mm	36mm	34mm Top panel only	3mm
2		≥13 inch	≥8 inch	15mm Length and width panels	24mm	15mm Width panel only	10mm Width panel only	15mm	23mm	36mm	34mm Length and top panels	3mm
3		≥15 inch	≥9 inch	20mm Length and width panels	32mm	20mm Width panel only	15mm Width panel only	20mm	30mm	47mm	45mm Length and top panels	3mm
4		≥18.5 in	≥10 inch	25mm Length and width panels	40mm	25mm Width panel only	17mm Width panel only	25mm	38mm	59mm	56mm Length and top panels	3mm
5		≥25.75 in	≥13.5 in	40mm Length and width panels	63mm	40mm Width panel only	25mm Width panel only	40mm	60mm	95mm	90mm Length and top panels	3mm
6		≥33 inch	≥18 inch	50mm Length and width panels	79mm	50mm Width panel only	35mm Width panel only	50mm	75mm	119mm	113mm Length and top panel	3mm

Oracle Logo Artwork = 8209638
Handling Symbol Artwork (Up Arrow, Fragile, Keep Dry) = 412-1511-XX
CE Mark, UKCA Mark Artwork = 8209639
O tag artwork = 8208826

Table 2. Large Container Artwork Matrix

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Small Container Artwork Matrix Conditions: if width <13 inches or height <8 inches

	A	B	C	D	E	F	G	H	I	J	K	L
	Container **Length**	Container **Width**	Container **Height**	**Oracle logo** die height	Oracle logo top and left margins	**Handling Symbols** die height	**CE Mark, UKCA Mark** die height	Handling Symbols, CE Mark, UKCA Mark Left and bottom margins	Oracle logo die height (on top of box)	Oracle logo (on top of box) left and top margins	**O tag** block die height and right margin	O tag bottom margin
7	≥6 inch	≤6 inch	≤2.25 inch	No logo on length or width panels	No logo on length or width panels	12mm Length panel only	8mm Length panel only	12mm	12mm top panel only	19mm	27mm Top panel only	3mm
8	≥6 inch	≥6 inch	≥4 inch	12mm Length panel only	19mm	12mm Length panel only	8mm Length panel only	12mm	12mm top panel only	19mm	27mm Top panel only	3mm
9	≥7.5 inch	≥7.5 inch	≥4 inch	15mm Length panel only	24mm	15mm Length panel only	10mm Length panel only	15mm	15mm top panel only	24mm	34mm Top panel only	3mm
	Oracle Logo Artwork = 8209638 Handling Symbol Artwork (Up Arrow, Fragile, Keep Dry) = 412-1511-XX CE Mark, UKCA Mark Artwork = 8209639 O tag artwork = 8208826											

Table 3. Small Container Artwork Matrix

There are a total of only 4 artwork elements that are applied to containers with GLO Generic Logo Only Graphics. See graphic artwork elements below.

The latest revision of the Adobe Illustrator .ai artwork files are available in Fusion and should take precedence over any artwork illustrations in this document:

Oracle logo   8209638

Handling Symbols (Up Arrow, Fragile, Keep Dry)   412-1511-XX

CE Mark, UKCA Mark   8209639

Oracle "O" tag   8208826

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Oracle logo   **8209638**

Die Height - Do Not Print

DO NOT PRINT THE FOLLOWING

Artwork Part Number
8209638 Rev 02
EC No. E54727
03/15/21
Property of Oracle Corporation
This Art File AT 100%. All Prints Black
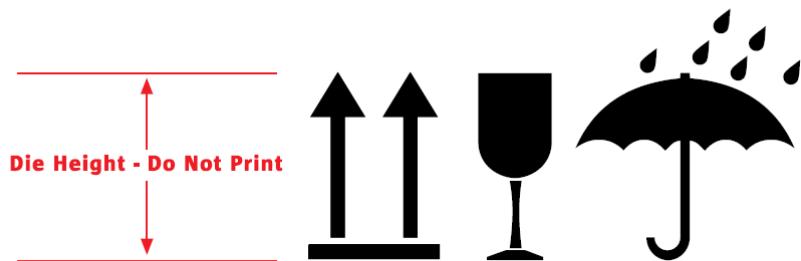
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Handling Symbols (Up Arrow, Fragile, Keep Dry)   412-1511-XX

Die Height - Do Not Print

DO NOT PRINT THE FOLLOWING

Artwork Part Number

412-1511-01 Rev52

ECO # WO

07-19-22

Property of Oracle Corporation

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CE Mark, UKCA Mark   **8209639**

Die Height - Do Not Print C E **UK CA**

DO NOT PRINT THE FOLLOWING

Artwork Part Number
8209639 Rev 02
EC No. E54727
03/15/21
Property of Oracle Corporation
This Art File AT 100%. All Prints Black
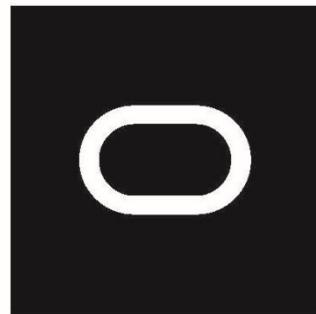
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"O" tag   **8208826**

DO NOT PRINT THE FOLLOWING

Artwork Part Number
8208826 Rev 01
MCO M52648
12/15/20
Property of Oracle Corporation
This Art File AT 100%. All Prints Black

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13.2 Container styles

Examples of how to properly apply GLO graphics to all common container styles are shown below.

In some cases, artwork elements are applied differently to the same style container depending on the size of the container (Large or Small), due to limited printable space on the panels or flaps of the smaller containers. These size differences are adjusted for in the die heights and margins specified in the **Container Artwork Matrix**, and they are also reflected in the container graphic artwork illustrations below.

All of the common container style illustrations shown below identify the specific **Container Artwork Matrix** row(s) that were applied when laying out the artwork elements on each example.
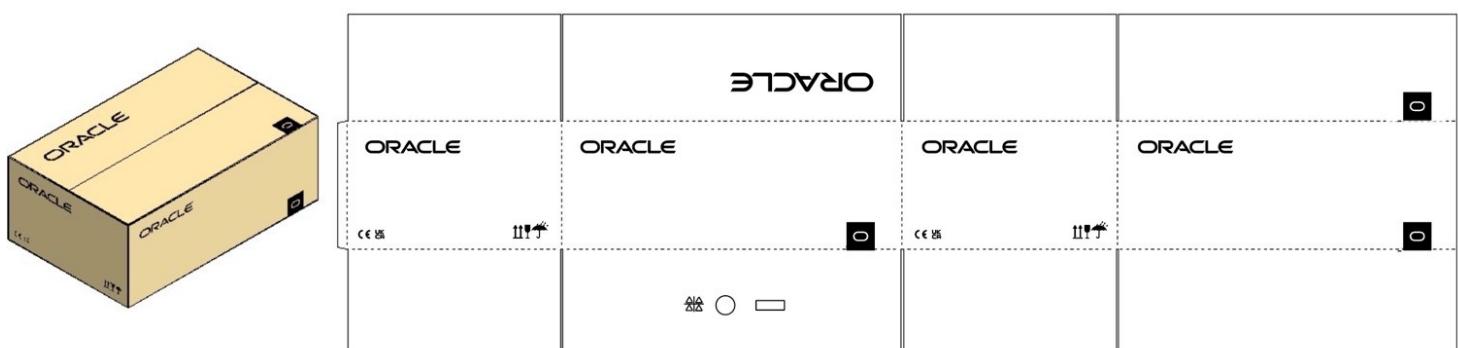
GLO   **GENERIC LOGO ONLY GRAPHICS**

The following marking and printing is required on GLO containers:

- Part Information Marking

- Material Identification Marking

- BMC

- **Artwork Matrix columns D, E, F, G, H, and L**

    o **Oracle logo**

    o **Handling Symbols**

    o **CE Mark, UKCA Mark**

    o **"O" tag**

RSC   **Regular Slotted Container**

(Reference Container Artwork Matrix, rows 2-6)

ORACLE
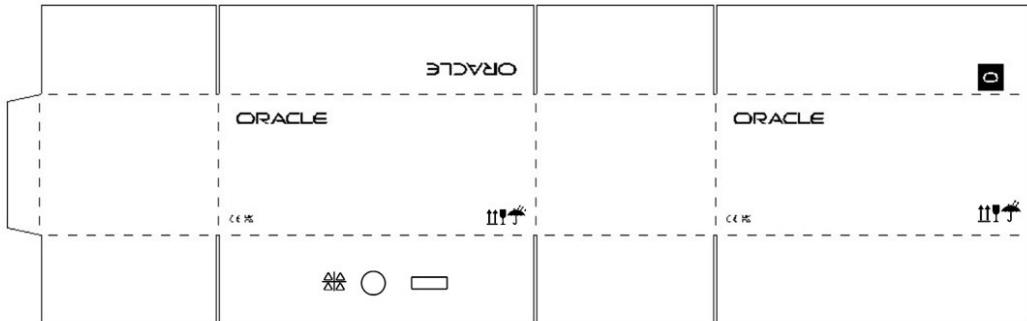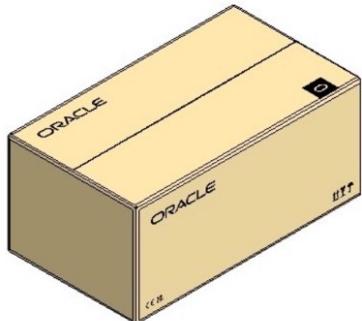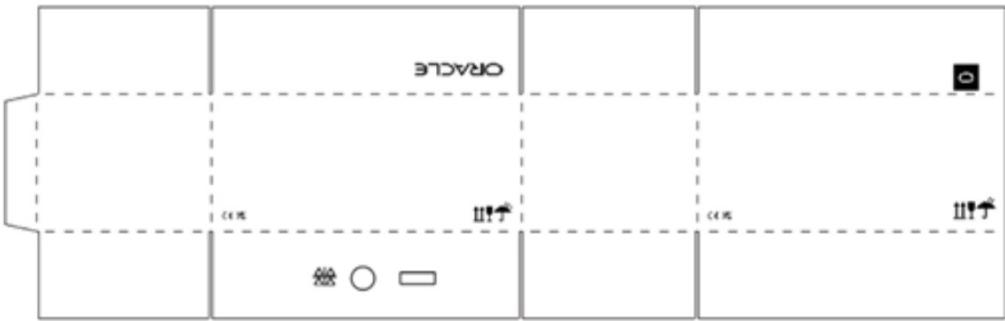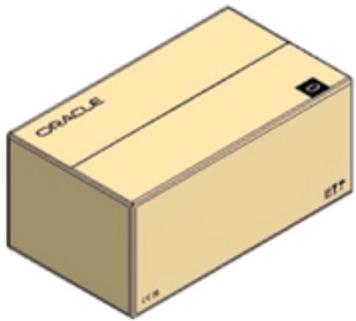
RSC   Regular Slotted Container

(Reference Container Artwork Matrix, rows 8 and 9)

RSC   Regular Slotted Container
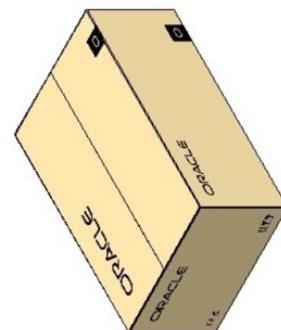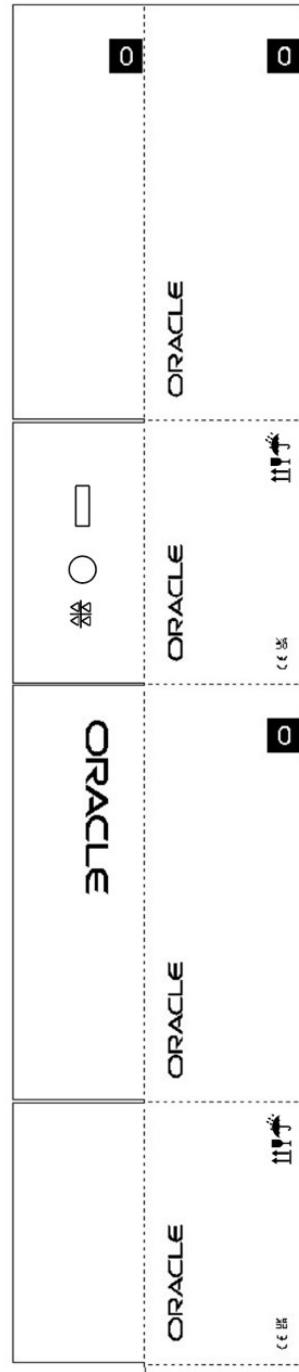
(Reference Container Artwork Matrix, rows 1 and 7)

HSC   Half Slotted Container
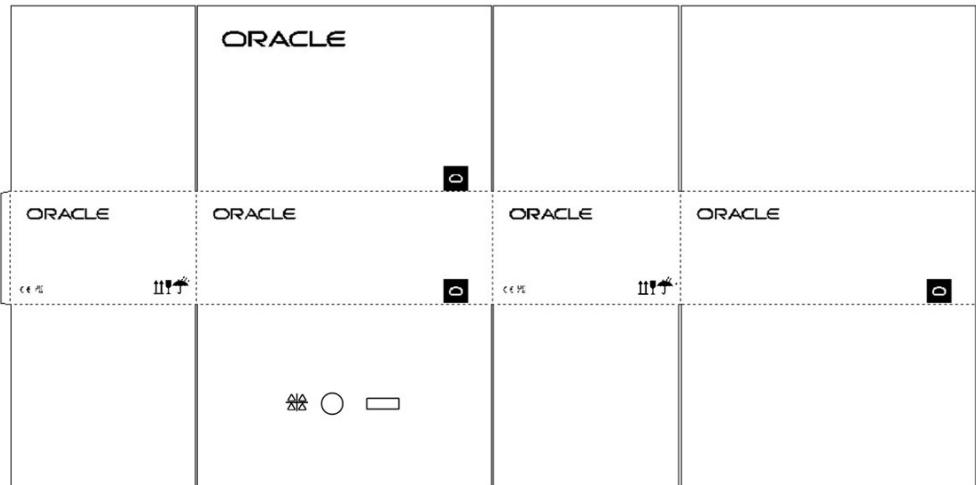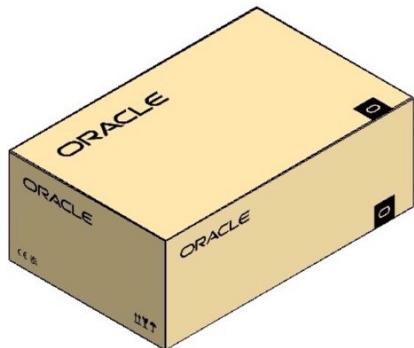
(Reference **Container Artwork Matrix**, rows 2-6)

- Container artwork for a HSC is similar to a RSC with the exception that elements printed on the bottom major flap of the RSC are moved to a minor top flap.   When a HSC is used in combination with an integrated pallet, then the HSC shall be oriented with the flaps on the top of the container.

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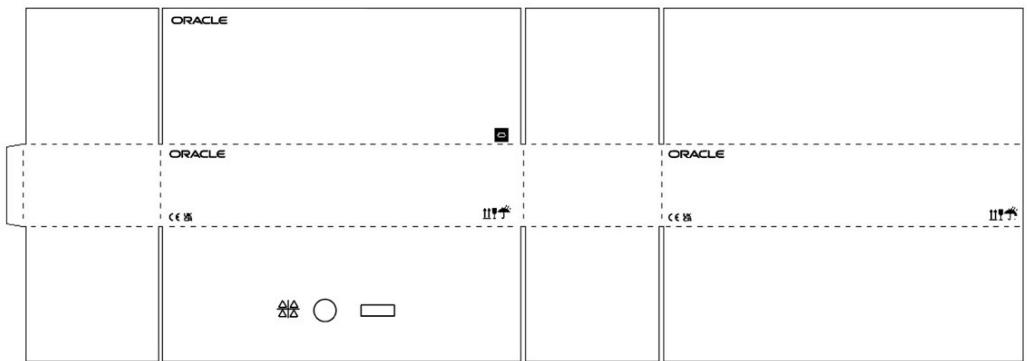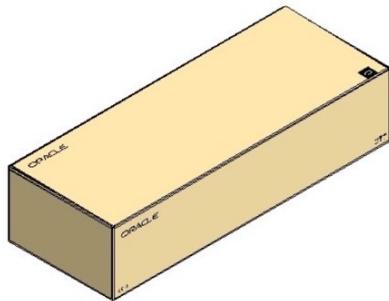
FOL   Full Overlap Container

(Reference Container Artwork Matrix, rows 2-6)
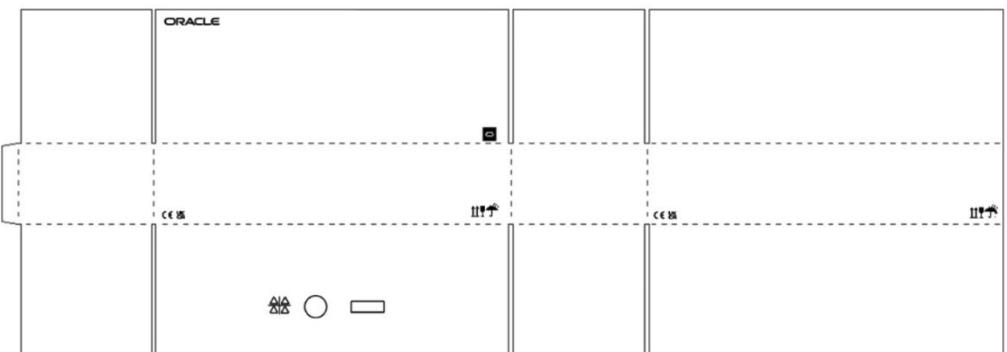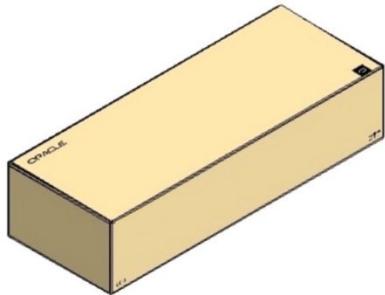
FOL   Full Overlap Container
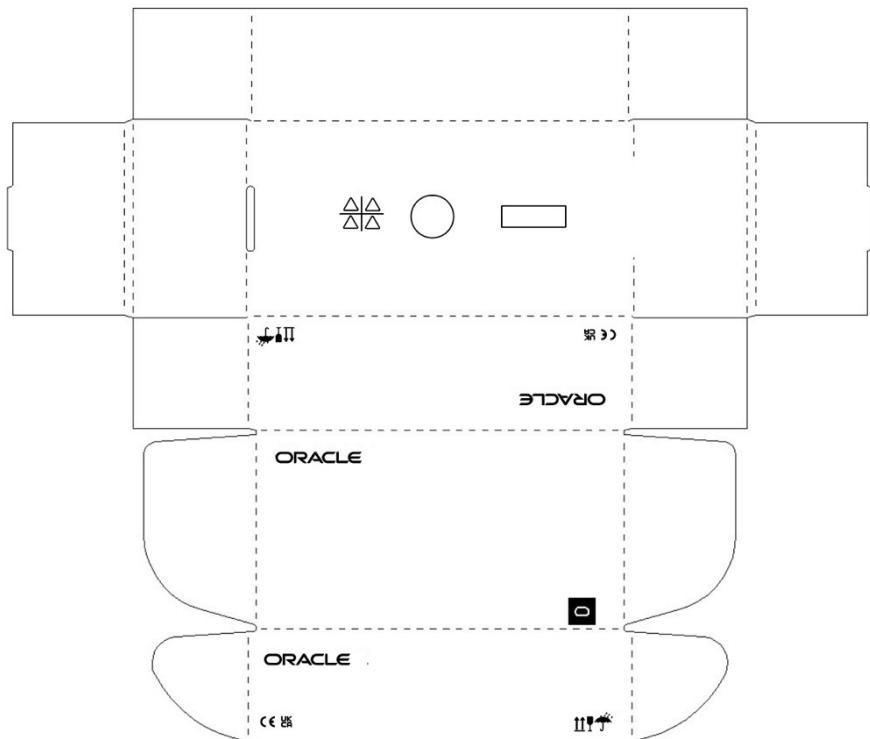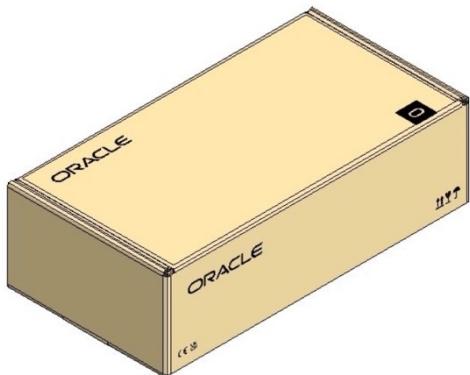
(Reference Container Artwork Matrix, rows 8 and 9)

FOL   Full Overlap Container

(Reference Container Artwork Matrix, rows 1 and 7)

ORACLE
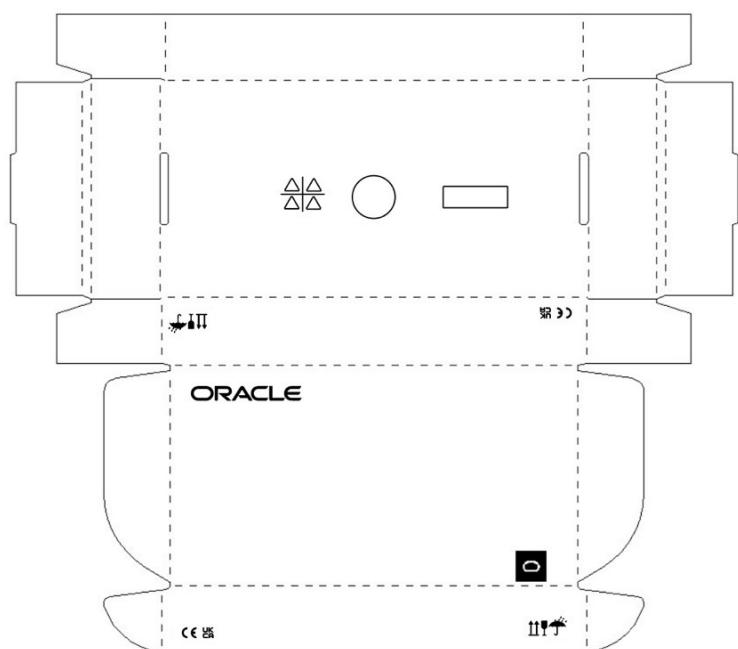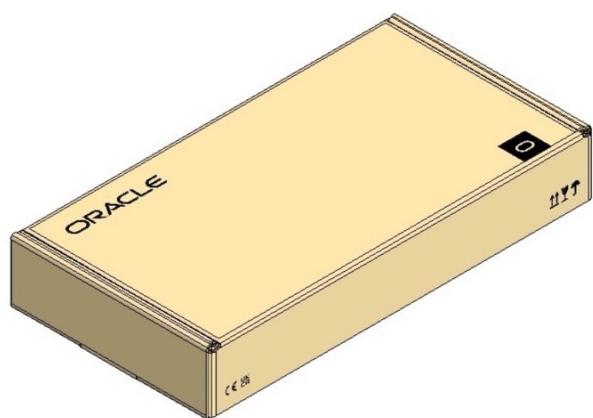
RTF   Roll End Tuck Front Container

(Reference Container Artwork Matrix, rows 8 and 9)

RTF   Roll End Tuck Front Container

(Reference Container Artwork Matrix, rows 1 and 7)

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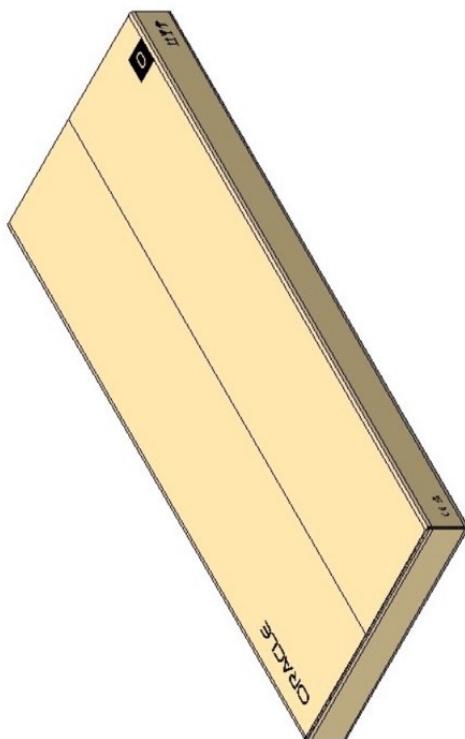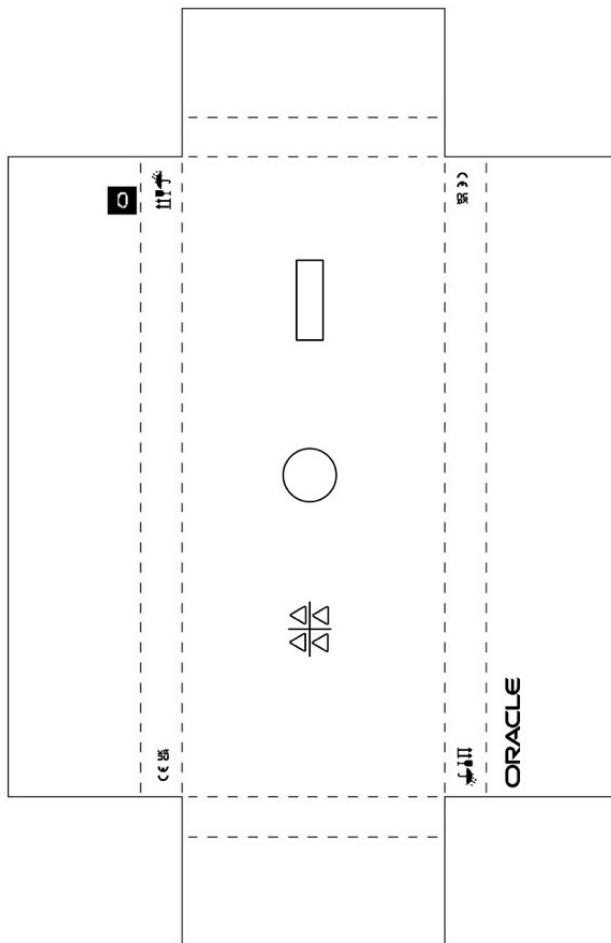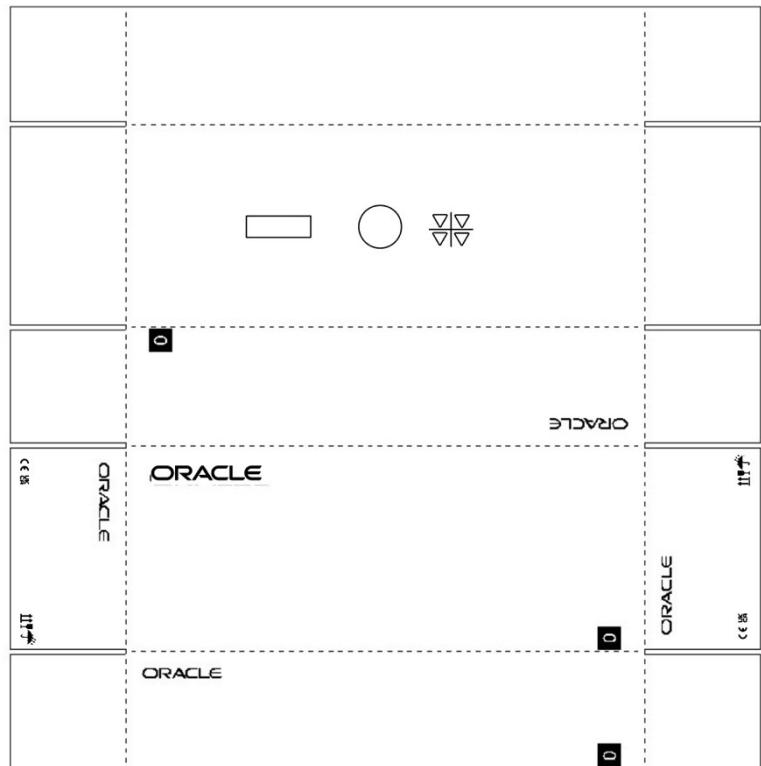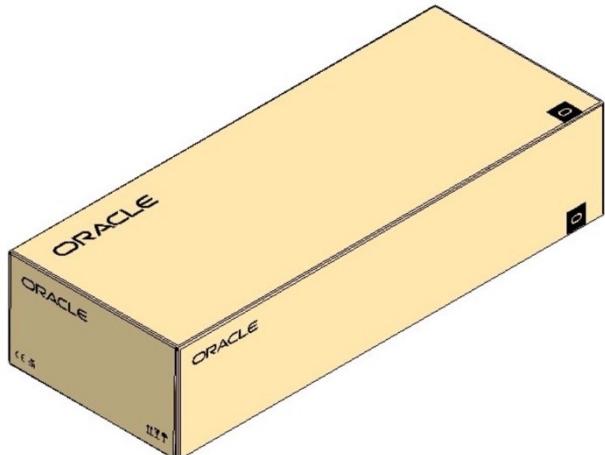
OPF   One Piece Folder Container

(Reference Container Artwork Matrix, rows 1 and 7)

ORACLE
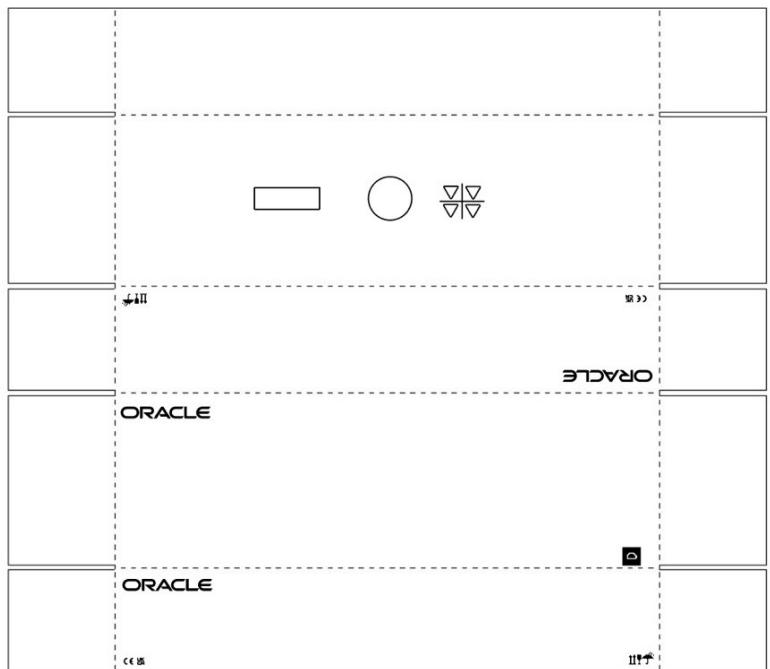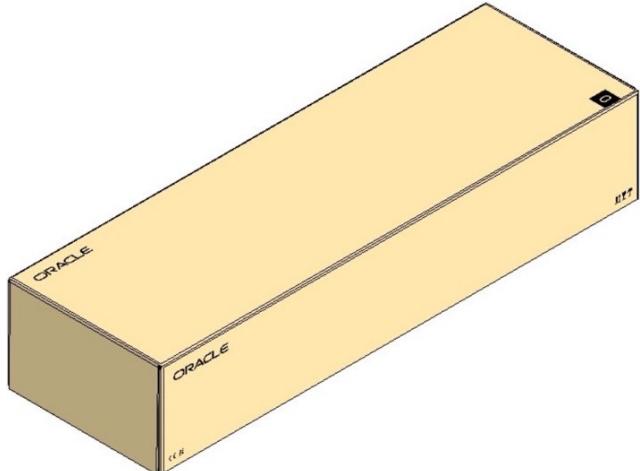
FPF   Five Panel Folder

(Reference Container Artwork Matrix, rows 2-6)

FPF   Five Panel Folder

(Reference Container Artwork Matrix, rows 8 and 9)
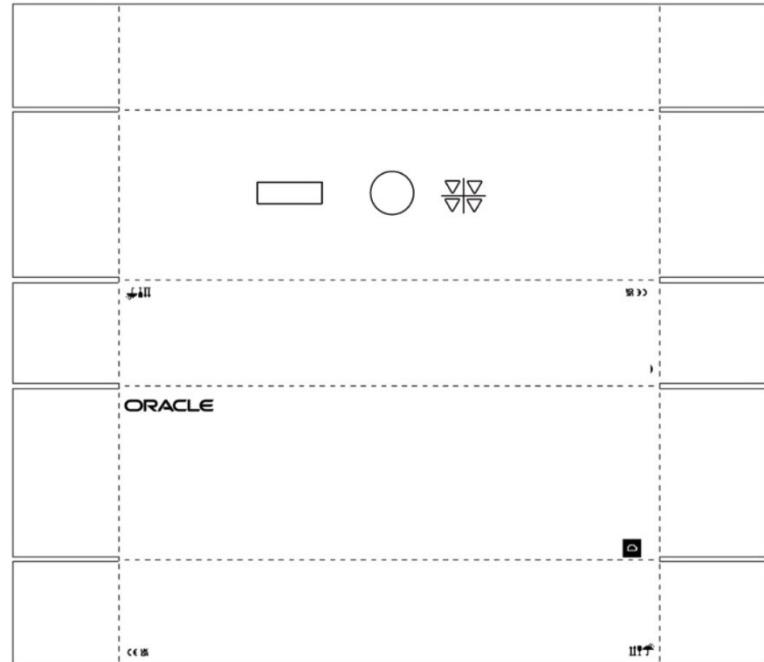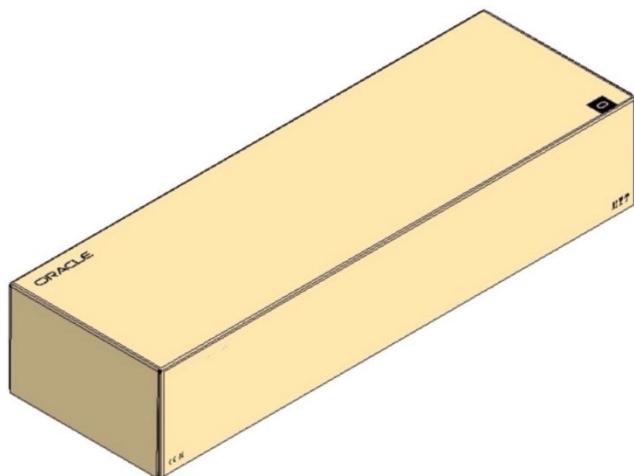
FPF examples continued on next page

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FPF   Five Panel Folder

(Reference Container Artwork Matrix, rows 1 and 7)

ORACLE
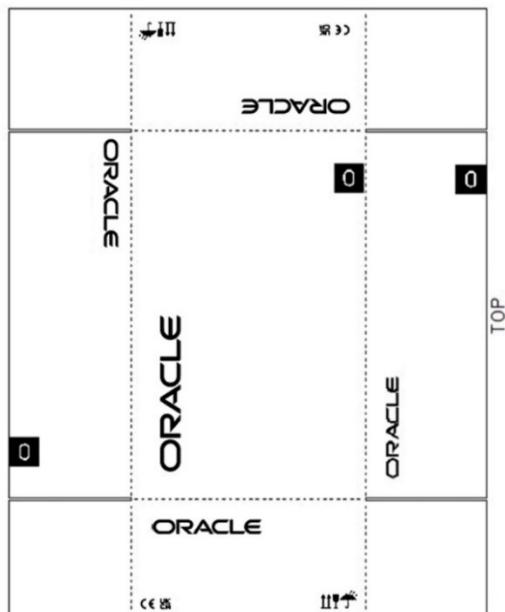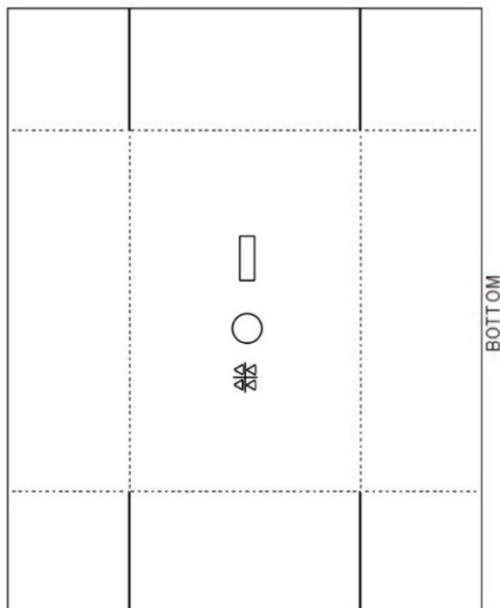
FT-DST   Full Telescoping Design Style Tray

(Reference Container Artwork Matrix, rows 2-6)

- **Artwork is applied to the assembly of the top and bottom telescoping trays as a whole**
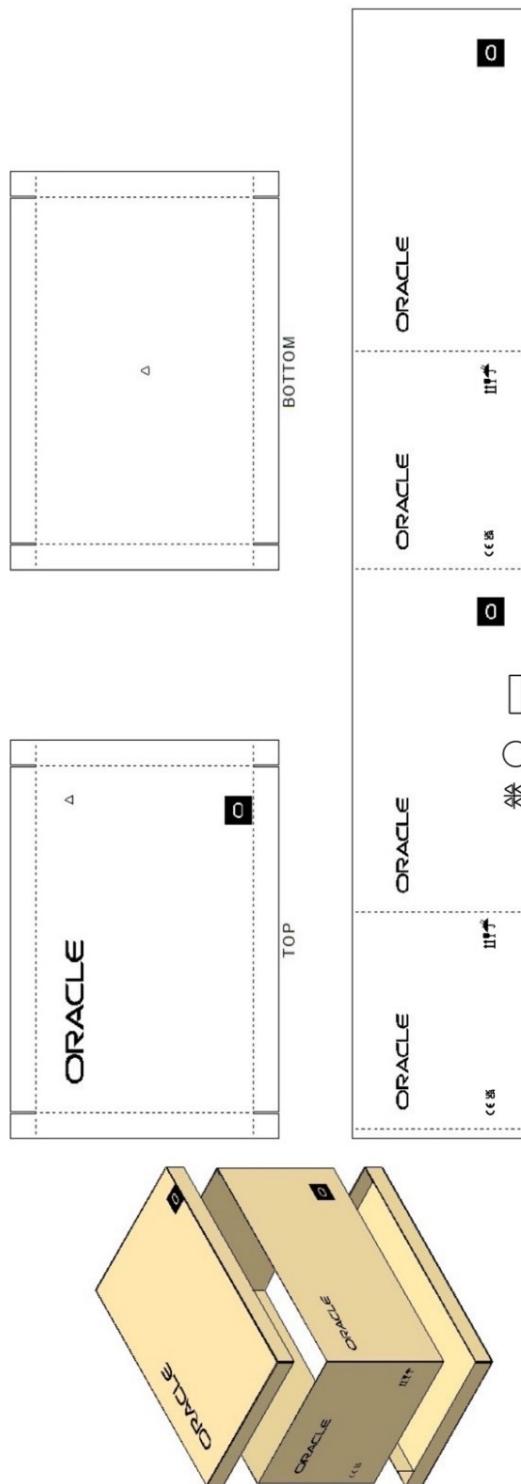
DST and Tube   Double Cap and Sleeve

(Reference **Container Artwork Matrix**, rows 2-6)

- Artwork is applied to the assembly of the top and bottom caps and sleeve as a whole. Bottom and Top Margins for the artwork elements on the side panels of the tube should fit between the DSTs vs. printing on the vertical edge of the DST. However Part Marking Information (Material Identification, Oracle Part Number, Revision, Date of Manufacture) and BMC, shall be printed on bottom of the tube and covered by the bottom DST.

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13.4 Logoless Containers

NLA   **NO LOGO APPLIED GRAPHICS**

Oracle products are sometimes sold with the intent of being resold by an Oracle customer under a different brand. In this case, the packaging shall be logo-less. However the following container markings are still required:

- Park Information Marking

- Material Identification Marking

- BMC

- **Artwork Matrix** columns F, G, and H

    - Handling Symbols

    - CE Mark, UKCA Mark

NLA Print Layout Reference for Artwork Die Height and Margins from score lines

ORACLE
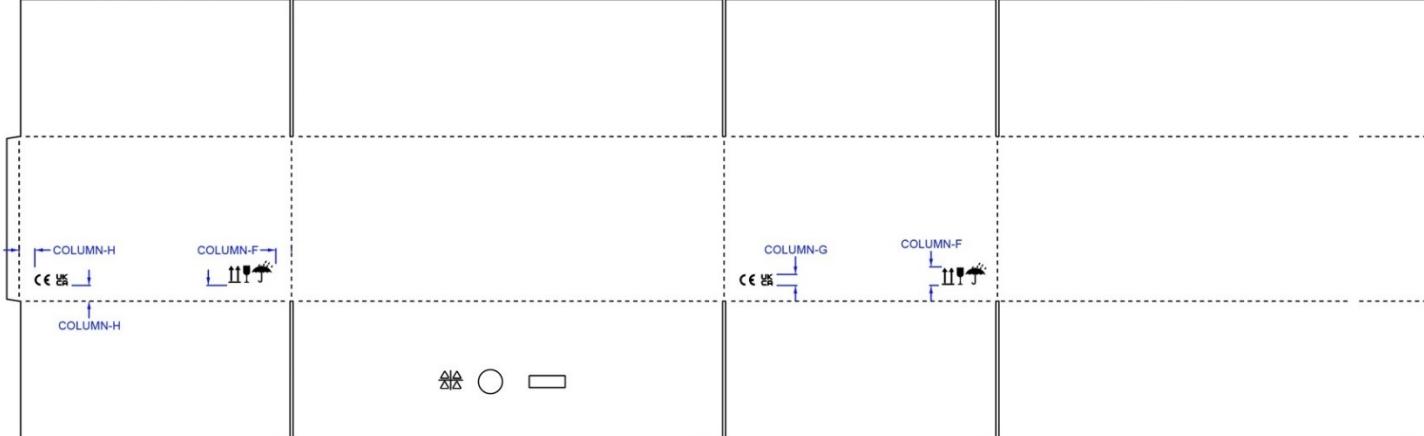
13.5 Containers without graphics

NGA   NO GRAPHICS APPLIED

Scope:

NGA artwork applies to the '***outer corrugated fiberboard shipping container*** ' and '***Envelope Mailers'*** used to ship FRUs.

NGA also applies to corrugated fiberboard containers that are '***internal***' to the overall Package Assembly, such as an accessory carton which ships inside a Package Assembly

'*Outer corrugated fiberboard shipping container*' The outer corrugated fiberboard box of the Package Assembly requires the following container markings:

- **Part Information Marking**

- **BMC**

- **Material Identification Marking**

  If the 950-1419-XX Packaged Product Finished Goods Label applied to the outer box is printed with the corrugated fiberboard Material Identification Marks, then no additional Material Identification Marks are required on the outer corrugated fiberboard container. (The Print Plate Maker shall assume that the Material Identification Marks are not required to be printed on NGA boxes.)

- **CE Mark and UKCA Mark**

  If the 950-1419-XX Packaged Product Finished Goods Label applied to the outer box is printed with the CE Mark and UKCA Mark, then no additional CE Mark or UKCA Mark is required on the outer corrugated fiberboard container. (The Print Plate Maker shall assume that the CE and UKCA Marks are not required to be printed on NGA boxes.)

'*Envelope Mailers'* Envelope mailers have specific size requirements per 8208016 General Packaging Envelope Mailer Specification. Envelope mailers require the following container markings:

- **Material Identification Marking**

  If the 950-1419-XX Packaged Product Finished Goods Label applied to the envelope mailer is printed with the LDPE Material Identification Marks, then no additional Material Identification Marks are required on the envelope mailer.

- **CE Mark and UKCA Mark**

  If the 950-1419-XX Packaged Product Finished Goods Label applied to the envelope mailer is printed with the CE Mark and UKCA Mark, then no additional CE Mark or UKCA Mark is required on the envelope mailer.

'*Internal corrugated fiberboard container*' Corrugated fiberboard boxes that ship inside the overall Package Assembly require the following container markings:

- **Part Information Marking**

- **BMC**

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- **Material Identification Marking**

NGA Print Layout Reference with Part Information Marking and BMC for use on '*Outer corrugated fiberboard container*' with 950-1419 label that is inclusive of Material ID, CE and UKCA marks

NGA Print Layout Reference with Part Information Marking, Material Identification Marking and BMC for use on '*Internal corrugated fiberboard container*'

13.6 Containers with Product specific graphics

PSG   PRODUCT SPECIFIC GRAPHICS

Oracle Packaging Engineering will create package artwork for products which require Product Specific Graphics (the Packaging Print Plate Maker does not need to create this artwork).

Product Specific Graphics, starts with GLO Generic Logo Only graphics, then the following additions/modifications are applied as required:

Scope:

PSG artwork is typically created for Packaged Racks and Packaged Product Systems that Oracle intends to ship to External Customers. Also any products that require 'Unpacking Instructions, or packaging where it would be helpful to identify what is inside the box for the user, i.e. a package containing RAMPS required to roll a rack off of a pallet.

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Systems that ship only to OCI, and are typically only shipped configured inside of a rack, then the stand alone System package is not required to have PSG artwork.

Branding:

Per Oracle Corporate Branding, the Oracle logo and "O" tag shall be applied to System packages.

Per a request from Oracle Corporate Security, Rack packaging shall be 'un-branded' to minimize risk of theft of high value product during transportation.

Product Size:

To indicate the product RU size, the Product Specific Graphics optionally adds '1u 2u 3u 4u or 5u' in the upper right corner of both minor side panels of the container.   Die Height = Die Height of Handling Symbols. Top margin = Oracle logo margin.

Reference Oracle artwork 8214987 or also see below.

Font:

With the exception of the Oracle logo or other specific artwork/symbols like CE and UKCA Marks which have their own artwork/font, all other text created for Product Specific Graphic artwork shall use 'Oracle Sans' font or equivalent approved by Oracle Packaging Engineering.

Two Person Lift:

Optional. Added as required. Located along with, and the same die height size as Handling Symbols.

Tick Marks for 950-1419 Label Placement:

Optional tick marks for label placement may be added on the upper right corner of the minor side panel, to the right of the Product RU Size artwork 8214987. The 950-1419-XX Packaged Product Finished Goods Label is 10cm wide x 15cm high.

Unpacking Illustration/Instructions:

Required on package assemblies with complex unpacking processes. Product Specific Graphics shall include an exploded isometric view of the packaging to illustrate how to unpack the product.

> Location:

> Rack Packaging: On ramp attach side of corrugated sleeve

> RSC / HSC: On top minor flap. Orientation should match orientation of Oracle Logo on top major flap

> Pallet Ramps: Unpacking Instructions applied to ramp labels

Additional Handling Symbols/Marking:

Using Illustrations and Icons on the packaging is preferred vs. using words (in one or multiple languages).

Acceptable Marking Standards: It is desirable to leverage Industry standard artwork illustrations/icons whenever possible. The following are a partial list of acceptable standards (in order of preference). Oracle may also create and use unique symbols and illustrations.

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ISO 780 – Pictorial Marking of Handling of Goods

ASTM D5445 – Standard Practice for Pictorial Markings for Handling of Goods

RTST – Rack Transport Stability Team, Safer Handling Practices for Server/Storage Rack Products

PSG Print Layout Reference for Artwork Die Height and Margins from score lines
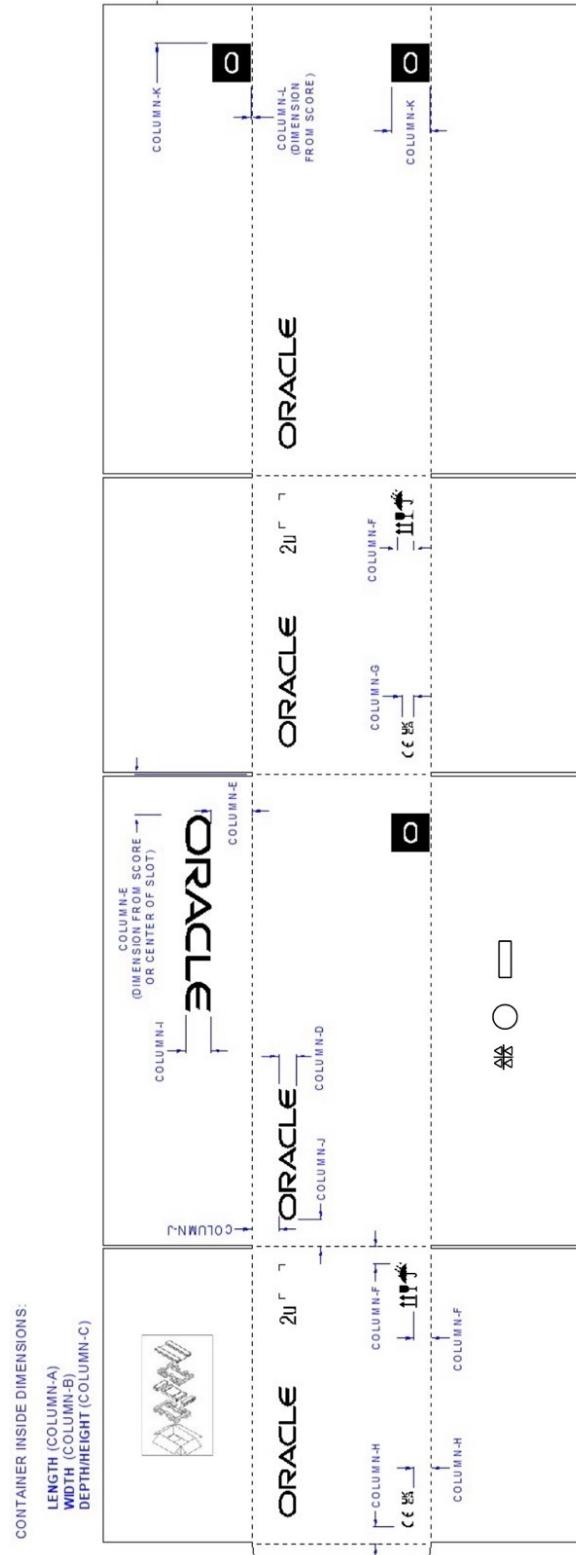
Figure 9. Dimensioned PSG Graphic Artwork Map (without handholds)

PSG Print Layout with Handholds
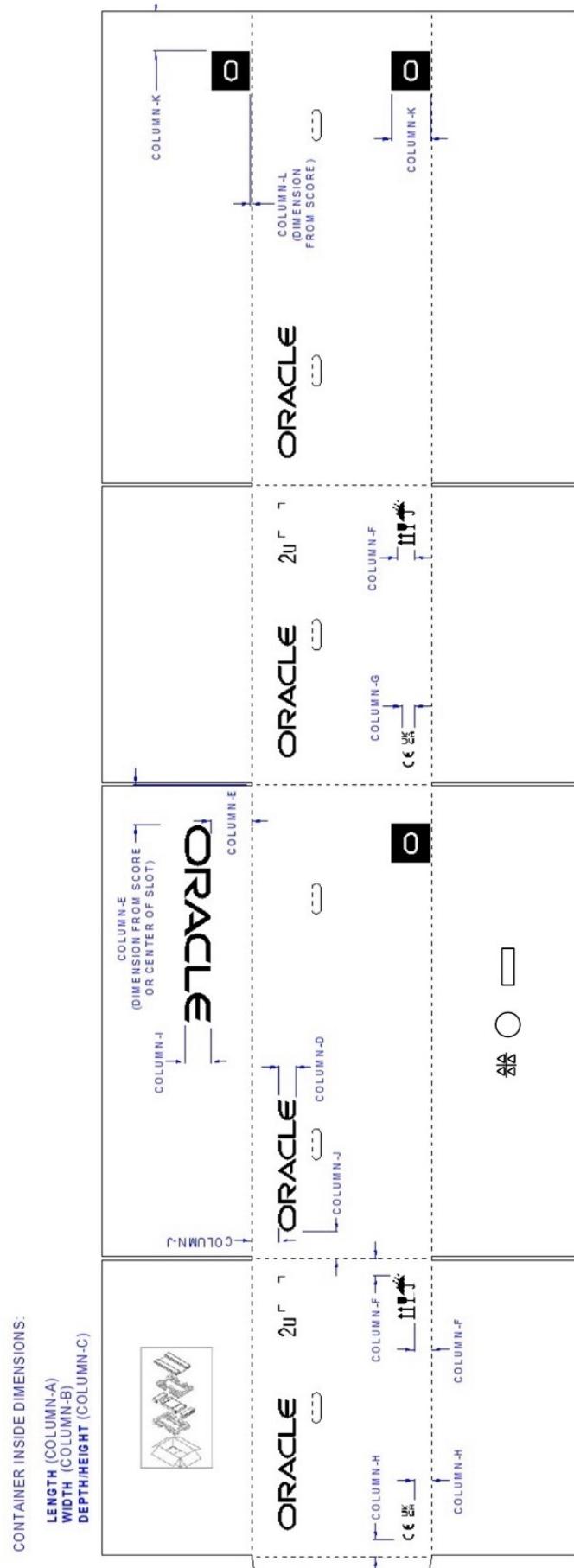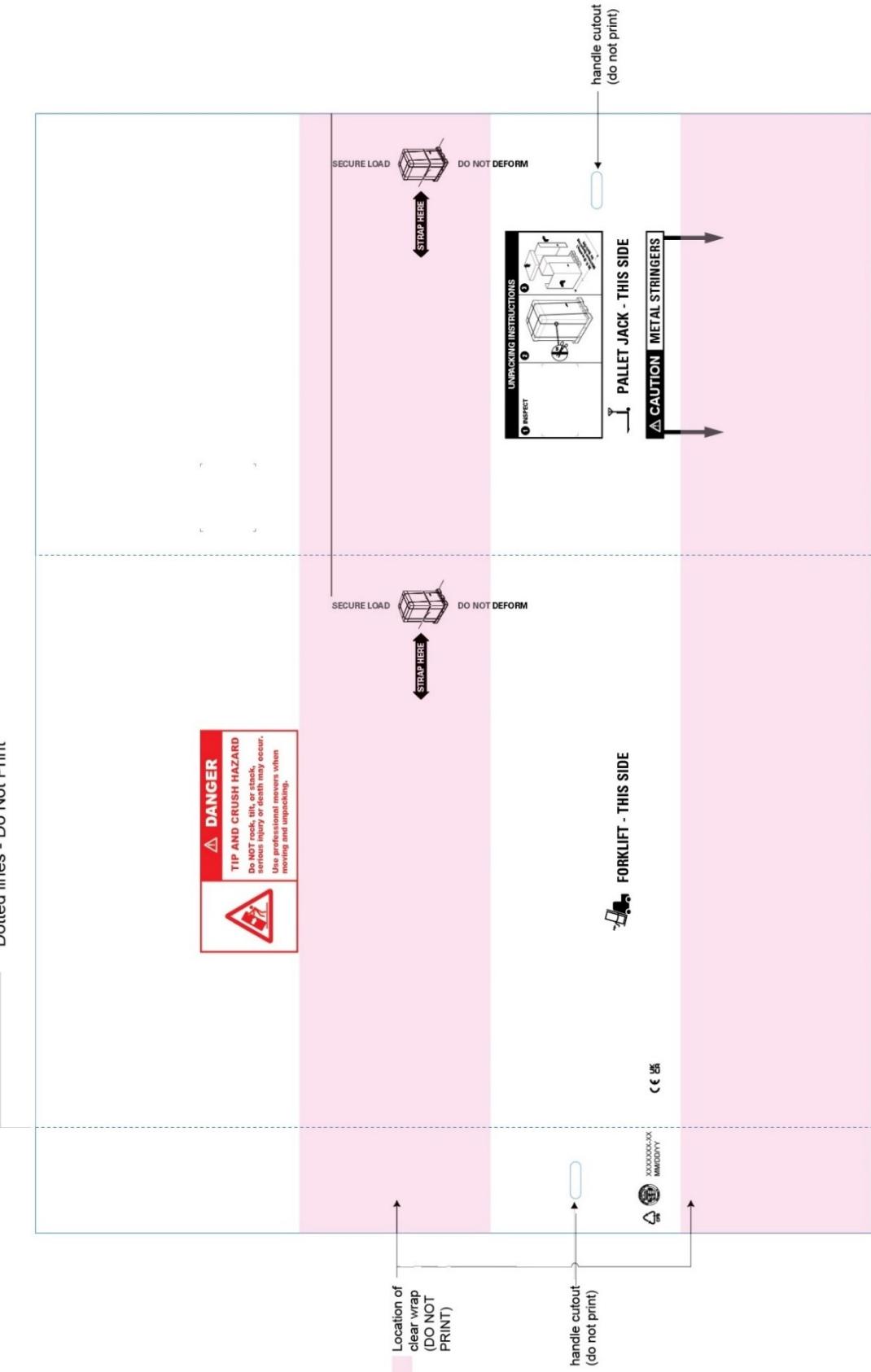
Figure 10. Dimensioned PSG Graphic Artwork Map (with handholds)

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Rack Packaging with integrated cushioned pallet

Rack Corrugated Sleeve with PSG Artwork   8212021
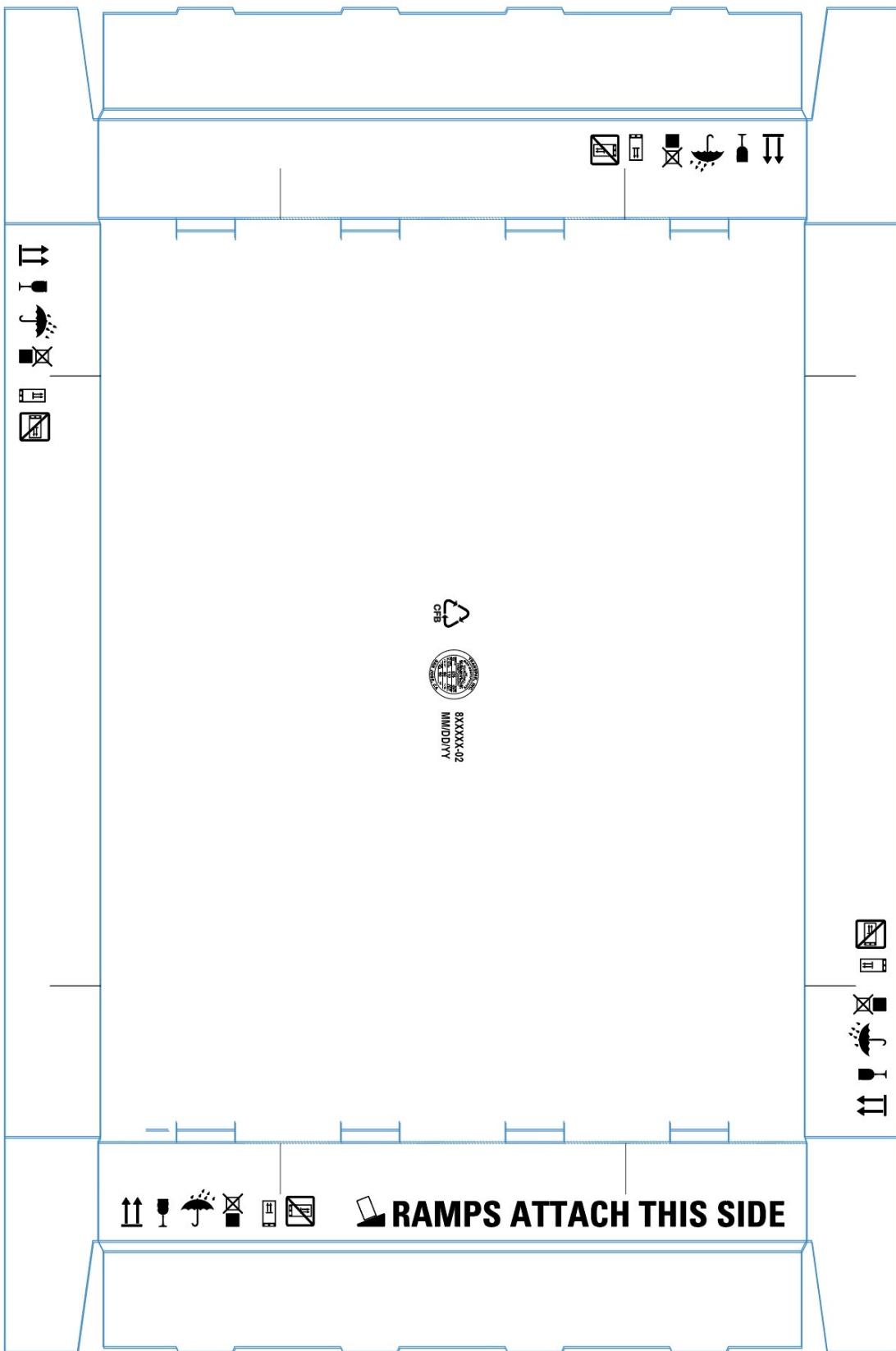
- Artwork is applied to the assembly of the corrugated top cap and 2 half sleeves as a whole.

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Rack corrugated RET top cap with PSG Artwork   8209698

- Top cap is printed with 4-way banding location marks and specifies ramp attach end. Handling Symbols are repeated on all 4 sides.

Rack corrugated RET top cap with PSG Artwork   8209698

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FRAGILE HANDLE WITH CARE   8214955
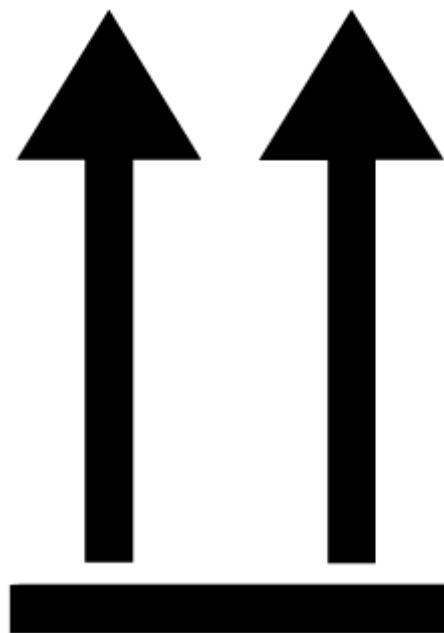
Indicates that contents are fragile and package must be handled with care.

THIS WAY UP   8214956

Indicates correct upright shipping orientation of the package.

FRAGILE HANDLE WITH CARE

ORACLE

KEEP DRY   8214957
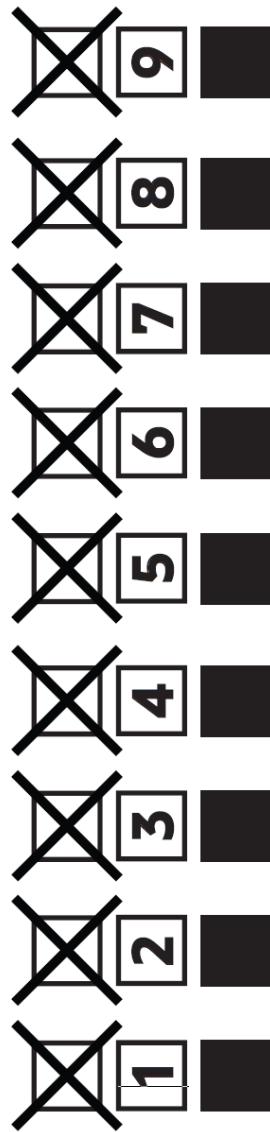
Indicates that contents shall be kept dry.

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STACKING LIMIT BY NUMBER   8214987

Indicates that the items shall not be vertically stacked higher than the specified number. Replace "n" with the maximum number of identical packages allowed.

DO NOT PRINT THE FOLLOWING

Artwork Part Number
8214987 rev 02

07-26-22
Property of Oracle Corporation
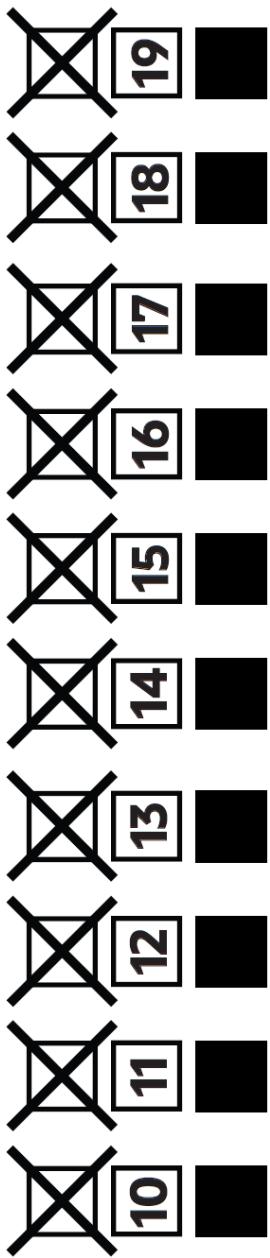
see 8214948 "DO NOT STACK" if n=0

"STACKING LIMIT BY NUMBER"
Note: n=stacking limit, single digit

Die Height - Do Not Print

Note: n=stacking limit, double digit

Die Height - Do Not Print
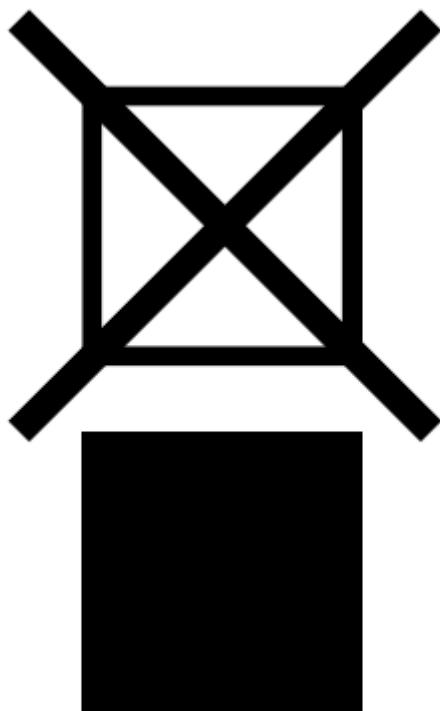
Note: Replace 'n' with maximum number of items allowed. Number 'n' does not include the bottom package in stack. Symbol shall be used in the orientation shown.

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DO NOT STACK   **8214958**

Indicates stacking of the transport package is not permitted and no load shall be placed on the transport package.

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PRODUCT SIZE   8214959

Indicates the RU (Rack unit) height of the Packaged Product.

Die Height - Do Not Print | 1u 2u

Die Height - Do Not Print | 3u 4u 5u

DO NOT PRINT THE FOLLOWING

Artwork Part Number

8214987 rev 02

07-19-22

Property of Oracle Corporation

ORACLE
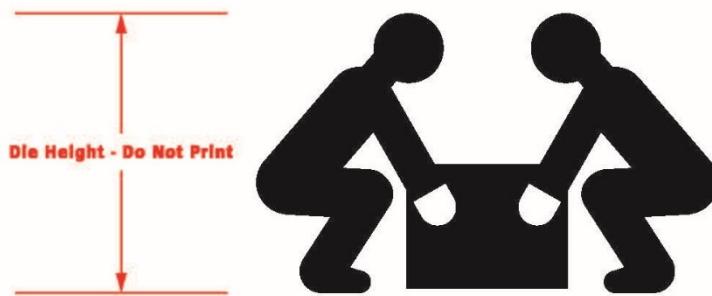
TWO PERSON LIFT   412-1755-XX

Indicates that 2 people are required to safely lift the package.

TWO PERSON LIFT   **412-1755-XX**

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PRODUCT WARNING LABELS (USE AS APPROPRIATE)

LABEL PLACEMENT OF DANGEROUS GOODS   265-2652-XX

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APPENDIX A

PACKAGING ENGINEERING USE ONLY, SEE THE LATEST VERSION OF THE REDWOOD STYLE GUIDE

Margin guideline for "O" tag and Oracle logo (these margins are embedded into the Artwork Matrix)

Oracle "O" tag clear space

Clear space to the right is
equal to the width of the tag.

Clear space

Height after 90° rotation

Cap
height

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The minimum clear space to the left and right of the
logo is equal to the cap height of the letter O.

The clear space above and below the logo is equal to
the height of the O when rotated 90°.

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Clear space

The minimum clear space to the left and right of the logo is equal to the cap height of the letter O.

The clear space above and below the logo is equal to the height of the O.

Revision History

REV	ECO	DESCRIPTION	DATE
50	WO 34991	ENG RLS PER ECO# WO_34991	1/26/07
51	WO 35138	REV ROLL PER ECO# WO_35138 UPDATE SCOPE	02/05/07
52	WO 36889	REV ROLL PER ECO# WO_36889 ADDED DETAIL IN SECTION 7.3 AND 7.4 FOR MARKING TIGHTLY INTEGRATED MATERIALS THAT ARE NOT EASILY SEPARATED.	4/17/07
53	E0006573	CHANGE TO ORACLE FORMAT, ADD MARKING OF WOOD MATERIALS, PART MARKING AND BMC	9/13/11
54	E0008952	REMOVE FIRST ARTICLE REFERENCE	2/17/12
55		Reformat to Redwood Template Update Material Identification marks to comply with EU Commission Decision 97/129/EC. Update Oracle Graphic Standards to remove Sun/Oracle logo, and add Oracle logo, "O" tag, and Compliance UKCA Mark Consolidate the content from the following 4 AQP specs into 425-1228: 425-1233 Package Product Graphics Standards 950-1341 Specification for Packaging Printing Color 950-5472 Specification for Packaging Pictorial Marking for Handling of Finished Goods 425-1165 Specification for Plastic Packaging Labeling	7/29/22
56	E58318	Modified NGA graphic requirements for FRU package containers to move Oracle Logo, CE Mark, UKCA Mark and Material Identification Mark off of the package and onto the 950-1419 Packaged Finished Goods Label	11/02/22
57/58	E61810/E62176	No content changes. (57) removed 412-1186-03 from structure (58) update attachment to correct rev.	4/10/24

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