



CONTAINER OWNERS ASSOCIATION

COMMON INTERCHANGE CRITERIA - "CIC"

FOR DRY VAN CONTAINERS

1st Edition

RAIL INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<i>All rails, including side rails, headers and sills</i>	<i>Holed, cut, torn or cracked; broken component and/or weld</i>	<i>REPAIR</i>
	<i>Missing or loose parts or fasteners</i>	<i>REPAIR</i>
	<i>Any deformation, such as bend, bow, dent, etc.</i>	<i>If exceeding ISO dimensional tolerances, see Table A</i>
<i>Top and bottom rails</i>	<i>Bend or dent within 250 mm (10 in) of a corner fitting</i>	<i>The weld or other connection to the corner fitting must be carefully examined and repaired if it gives any evidence of a break, cut, tear, crack, hole or other damage</i>
<i>Top side rails</i>	<i>Any deformation such as bend, bow, dent, etc. EXCEPT on a header extension plate or corner protection plate</i>	<i>If more than 30 mm (1-3/16 in) deep, REPAIR</i>
<i>Front and rear headers</i>	<i>Any deformation such as bend, bow, dent, etc. EXCEPT on a header extension plate or corner protection plate</i>	<i>If more than 40 mm (1-9/16 in) deep, REPAIR</i>
<i>Rain gutters</i>	<i>Any deformation such as bend, bow, dent, etc.</i>	<i>If door operation or securement is impaired, REPAIR</i>
<i>Bottom side rails, front and door sills</i>	<i>Any deformation such as bend, bow, dent, etc. ONAWEB</i>	<i>If more than 50 mm (2 in) deep, REPAIR</i>
	<i>Any deformation, such as bend, bow, dent, etc. ON A FLANGE</i>	<i>If torn, cracked or cut, REPAIR</i>
<i>Door headers and sills</i>	<i>Interference with door closure, securement and/or weather tightness</i>	<i>REPAIR</i>

CORNER POST INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<i>All corner posts, including i-bars</i>	<i>Holed, cut or torn; broken component and/or weld</i>	<i>REPAIR</i>
	<i>Missing or loose parts or fasteners</i>	<i>REPAIR</i>
	<i>Any deformation, such as bend, bow, dent, etc.</i>	<i>If exceeding ISO dimensional tolerances, see Table A</i>
<i>All corner posts, front and rear</i>	<i>Any deformation, such as bend, bow, dent, etc.</i>	<i>If more than 20 mm (1 3/16 in), regardless of length or location, REPAIR</i>
	<i>Cracks</i>	<i>REPAIR</i>
<i>Rear corner posts</i>	<i>Any deformation causing interference with door operation, securement or weather tightness</i>	<i>REPAIR</i>
<i>J-bars</i>	<i>Any deformation such as bend, bow, dent, etc.</i>	<i>Door must be able to open fully (270°). If door operation is impaired, REPAIR</i>

SIDE/FRONT PANEL INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<p><i>All side/front panels</i></p>	<p><i>Holed, cut, torn or cracked; broken component and/or weld</i></p>	<p>REPAIR</p>
	<p><i>Missing or loose parts or fasteners</i></p>	<p>REPAIR</p>
	<p><i>Any deformation, such as bend, bow, dent, etc.</i></p>	<p><i>If exceeding ISO dimensional tolerances, see Table A</i></p>
	<p><i>Any deformation such as bend, dent, etc. on a flat portion of a marking panel, or on an inboard or outboard face of a corrugation</i></p>	<p>* <i>If internal CUBE INTRUSION is GREATER than 35 mm (1-3/8 in), REPAIR</i></p> <p>* <i>Measured on exterior recessed corrugations as a 35 mm (1-3/8 in inward deformation</i></p>
	<p><i>Any bow involving the length or height of a wall</i></p>	<p><i>If internal dimensions are reduced by more than 50 mm (2 in), REPAIR</i></p>
<p><i>Interior panel liners</i></p>	<p><i>Holes in full-height liners</i> <i>NOTE: Holes in partial-height liners are permitted and do not require repair, providing they do not interfere with cargo. Full-height liners, however, must be repaired per TIR regulations, i.e. if any hole has a diameter of more than 10 mm (3/8 in).</i></p>	<p>REPAIR</p>
	<p><i>Cut, torn, cracked or broken; missing or loose fasteners</i></p>	<p>REPAIR</p>
<p><i>Ventilator covers</i></p>	<p><i>Broken, missing, etc.</i></p>	<p><i>If cracked or broken in raised, non-perforated area of ventilator enclosing air passage, REPAIR</i> OR <i>if damage exceeds TIR opening limit of 10mm (3/8 in), REPAIR</i></p>

DOOR INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<i>Door assembly, including hardware</i>	<i>Holed, cut, torn or cracked; broken component and/or weld</i>	<i>REPAIR</i>
	<i>Missing or loose parts or fasteners</i>	<i>REPAIR</i>
	<i>Any deformation, such as bend, bow, dent, etc.</i>	<i>If door operation or securement is impaired, REPAIR OR if exceeding ISO dimensional tolerances, see Table A</i>
	<i>Seized, frozen or stiff</i>	<i>If door operation or securement is impaired, REPAIR</i>
	<i>Lack of water-tightness</i>	<i>REPAIR</i>
<i>Door panels</i>	<i>Any deformation such as bend, bow, dent, etc.</i>	<i>If internal CUBE INTRUSION is GREATER than 35mm (1-3/8 in), REPAIR</i>
	<i>Any bow involving the length or height of a panel</i>	<i>If internal dimensions are reduced more than 50 mm (2 in) at any point, REPAIR</i>
<i>Door gaskets</i>	<i>Loose or missing</i>	<i>REPAIR</i>
	<i>Cut, torn, cracked or burned</i>	<i>If not light-tight AND water-tight, REPAIR</i>

ROOF INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<i>Roof panels, header extension plates, corner protection plates and roof bows</i>	<i>Holed, cut, torn or cracked; broken component and/or weld</i>	<i>REPAIR</i>
	<i>Missing or loose parts or fasteners</i>	<i>REPAIR</i>
	<i>Any deformation, such as bend, bow, dent, etc.</i>	<i>If exceeding ISO dimensional tolerances, see Table A</i>
<i>Roof bows</i>	<i>Any deformation, such as bend, bow, dent, etc.</i>	<i>If more than 50 mm (2 in) in any direction, REPAIR</i>
<i>Corner protection plates and header extension plates</i>	<i>Any deformation, such as bend, bow, dent, etc.</i>	<i>If internal dimensions are reduced by more than 50 mm (2 in), REPAIR</i>
<i>All roof panels</i>	<i>Any deformation such as bend, dent, etc.</i>	<i>If internal CUBE INTRUSION is GREATER than 50 mm (2 in), REPAIR</i>
	<i>Any bow involving the length or width of the roof</i>	<i>If internal dimensions are reduced by more than 50 mm (2 in), REPAIR</i>

FLOOR INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<p><i>Floor, including threshold plate and center spacer</i></p>	<p><i>Holed</i></p>	<p><i>If light leaks, regardless of diameter of hole, REPAIR</i></p>
	<p><i>Broken component and/or weld; missing, loose or protruding fasteners</i> <i>NOTE: No repair is necessary to cracked or broken welds of center spacers if light does not leak</i></p>	<p><i>REPAIR</i></p>
	<p><i>Light leakage gaps between boards</i></p>	<p><i>REPAIR</i></p>
<p><i>Wooden flooring</i></p>	<p><i>Delamination or splinters</i></p>	<p><i>REPAIR</i></p>
	<p><i>Gouges (regardless of length)</i></p>	<p><i>If more than 1.5 mm (9/16 in) deep, REPAIR; OR</i> <i>if more than 5 mm (3/16 in) deep, throughout a width of more than 150 mm (6 in) of the gouge, REPAIR</i></p>
	<p><i>Different heights of surfaces of adjacent planks or panels or between top plates of tunnel and fork pockets and floor boards</i></p>	<p><i>If difference is more than 10 mm (3/8 in), REPAIR</i></p>
<p><i>Plank flooring</i></p>	<p><i>Cracked or split</i></p>	<p><i>If light leaks, REPAIR</i></p>
<p><i>Threshold plate</i></p>	<p><i>Bent upwards</i></p>	<p><i>If more than 5 mm (3/16 in), REPAIR</i></p>

UNDERSTRUCTURE INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<p><i>Crossmembers, forklift pocket components (including straps), outriggers and gooseneck tunnel components</i></p>	<p><i>Holed, cut, torn or cracked; broken component and/or weld</i></p>	<p><i>REPAIR</i></p>
	<p><i>Missing or loose parts or fasteners</i></p>	<p><i>REPAIR</i></p>
	<p><i>Any deformation, such as bend, bow, dent, etc.</i></p>	<p><i>If exceeding ISO dimensional tolerances, see Table A</i></p>
	<p><i>Any deformation such as bend, bow, dent, etc. ON A WEB</i></p>	<p><i>If more than 50 mm (2 in) in any direction, REPAIR</i></p>
	<p><i>Any deformation such as bend, bow, dent, etc. ON A BOTTOM FLANGE</i></p>	<p><i>If torn, cracked or cut, REPAIR</i></p>
<p><i>Crossmembers, forklift pocket components (including straps), outriggers and gooseneck tunnel components (continued)</i></p>	<p><i>Any deformation such as bend, bow, dent, etc. ON A TOP FLANGE</i></p>	<p><i>If intrusion into container is more than 50 mm (2 in), REPAIR</i></p>
	<p><i>TOP FLANGE separated from bottom of wood or steel flooring</i></p>	<p><i>If separation at point of attachment to floor, measured at the formed edge of the top flange, is more than 10mm (3/8 in), REPAIR</i></p>
<p><i>Gooseneck tunnel assembly and forklift pocket top plate</i></p>	<p><i>Any deformation such as bend, bow, dent, etc.</i></p>	<p><i>If more than 50 mm (2 in), REPAIR</i></p>

MISCELLANEOUS INSPECTION CRITERIA

COMPONENT	DAMAGE	ACTION REQUIRED
<i>Lash fittings</i>	<i>Broken parts and/or welds; missing or loose parts or fasteners</i>	<i>REPAIR</i>
	<i>Bent</i>	<i>If more than 50 mm (2 in) into the interior space of the container, REPAIR</i>
<i>Markings required by regulations, international standard</i>	<i>Missing, loose or defaced</i>	<i>REPAIR</i>
<i>Markings required by owner</i>	<i>Missing, loose or defaced</i>	<i>Consult with owner</i>
<i>Marking plates</i>	<i>Loose, broken, missing plate or fasteners; illegible data</i>	<i>REPAIR</i>
<i>Corner fittings and their weld attachments</i>	<i>Cracked, loose, broken; apertures outside ISO dimensional tolerances</i>	<i>REPAIR</i>
<i>Entire container</i>	<i>Any deformation such as bend, bow, dent, etc. that affects ISO required diagonal dimensions between corner fitting apertures</i>	<i>If deformation exceeds ISO tolerances, REPAIR</i>
<i>End frame components (corner posts, front panel, doors, headers, sills, corner fittings)</i>	<i>Any deformation such as bend, bow, dent, etc. that affects other ISO required dimensions</i>	<i>If deformation exceeds ISO tolerances plus 5 mm (3/16 in) on end faces or plus 10 mm (3/8 in) on side faces, REPAIR</i>
<i>Entire container, EXCEPT end frame components</i>	<i>Any deformation such as bend, bow, dent, etc. that affects other ISO required dimensions</i>	<i>See Table A, below</i>

TABLE A - TOLERANCE LIMITS FOR DAMAGE (ISO AND CIC TOLERANCES)

COMPONENTS	CIC + ISO DAMAGE LIMITS
<i>Side panels</i>	<p>* <i>OUTWARDS: Maximum 20 mm (1 3/16 in) beyond plane of side surfaces of corner fittings</i></p> <p>* <i>For side panels, measured on interior recessed corrugations as a 30 mm (1 -3/16 in) outward deformation</i></p>
<i>Top side rails</i>	<p><i>OUTWARDS: Maximum 10 mm (3/8 in) beyond plane of side surfaces of corner fittings</i></p> <p><i>UPWARDS (rails): Maximum 4 mm (5/32 in) above plane of upper surfaces of top corner fittings</i></p>
<i>Bottom side rails</i>	<p><i>OUTWARDS: Maximum 10 mm (3/8 in) beyond plane of side surfaces of corner fittings</i></p> <p><i>DOWNWARDS: Not below the plane of the lower surfaces of the bottom corner fittings</i></p>
<i>Front and door headers</i> <i>Front and door panels</i>	<p><i>OUTWARDS: Maximum 5 mm (3/16 in) beyond plane of end surfaces of corner fittings</i></p> <p><i>UPWARDS (headers): Maximum 4 mm (5/32 in) above plane of upper surfaces of top corner fittings</i></p>
<i>Front and door sills (20' containers)</i> <i>Door sill (40' containers)</i>	<p><i>OUTWARDS: Maximum 5 mm (3/16 in) beyond plane of end surfaces of corner fittings</i></p> <p><i>DOWNWARDS: Not below the plane of the lower surfaces of the bottom corner fittings</i></p>
<i>Front sill (40' containers)</i>	<p><i>OUTWARDS: Sill face must be at least 1 mm (1/32 in) behind plane of end surfaces of corner fittings</i></p> <p><i>DOWNWARDS: Not below the plane of the lower surfaces of the bottom corner fittings</i></p>
<i>Corner posts</i>	<p><i>INWARDS: Follow criteria in Corner Post Inspection Criteria table [20 mm (1 3/16 in)] maximum.</i></p> <p><i>OUTWARDS: Maximum 5 mm (3/16 in) beyond plane of end surfaces or 10 mm (3/8 in) beyond plane of side surfaces of corner fittings</i></p>
<i>Roof panels</i>	<p><i>DOWNWARDS: Follow Roof Inspection Criteria table [50 mm (2 in)] maximum internal dimension reduction)</i></p> <p><i>UPWARDS: Maximum 15 mm (5/8 in) above plane of upper surfaces of top corner fittings</i></p>
<i>Crossmembers, outriggers, fork-lift pocket sides and gooseneck tunnel rails</i>	<p><i>DOWNWARDS: Lower flange cannot be lower than [15mm (9/16 in)] from its original position or below the plane of the lower surfaces of the bottom corner fittings</i></p> <p><i>INWARDS (fork-lift pocket sides): See "Fork-lift pocket opening WIDTH" below</i></p>

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TABLE A - TOLERANCE LIMITS FOR DAMAGE (ISO AND CIC TOLERANCES), CONTINUED

COMPONENTS	CIC + ISO DAMAGE LIMITS
<i>Fork-lift pocket strap</i>	<p><i>DOWNWARDS: Minimum 10 mm (3/8 in) above plane of the lower surfaces of the bottom corner fittings</i></p> <p><i>UPWARDS: See "Fork-lift pocket opening HEIGHT" below</i></p>
<i>Fork-lift pocket opening</i>	<p><i>WIDTH: "LOADED" pockets: Minimum 345 mm (1 3 5/8 in)</i></p> <p><i>"EMPTY" pockets: Minimum 295 mm (11 5/8 in)</i></p>
	<p><i>HEIGHT: "LOADED" pockets: Minimum 105 mm (4 1/8 in)</i></p> <p><i>"EMPTY" pockets: Minimum 92 mm (3 5/8 in)</i></p>
<i>Gooseneck tunnel</i>	<p><i>LENGTH: Minimum 3140mm (123 7/8 in); Maximum 3510mm (138 1/4 in)</i></p>
	<p><i>WIDTH of tunnel opening X: Minimum 1019 mm (40 1/8 in); Maximum 1042 mm (41 in)</i></p>
	<p><i>HEIGHT of tunnel opening B: Minimum 107mm (4 1/4 in); Maximum 130mm (5 1/8 in)</i></p>
<i>Door opening</i>	<p><i>WIDTH: Minimum 2281 mm (89-13/16 in)</i></p>
	<p><i>HEIGHT: 8' high container: Minimum 2129mm (83-13/16 in)</i></p> <p><i>8'6" high container: Minimum 2256 mm (88-13/16 in)</i></p> <p><i>9'6" high container: Minimum 2560mm (98-1 3/16)</i></p>