

# TG-05

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## TG-05: COA Guidelines for Container Interchange Criteria CIC-1

### Container Owners Association (COA)

Suite 3 - Charter House,  
26, Claremont Road, Surbiton KT6 4QZ, United Kingdom  
[www.containerownersassociation.org](http://www.containerownersassociation.org)

This document is intended for qualified industry professionals; persons who have completed appropriate technical and health and safety training.

Users of this document should carry out their own risk assessment and ensure any guidance is fit for their purpose and the container is safe and reliable for transport and in accordance with regulations applicable in the region of use.

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# TG04: Common interchange criteria – CIC-1

1<sup>st</sup> Edition August 2008

This edition of CIC was published in 08.2008 and applies to general purpose dry freight containers. It is reproduced in this document without change from the original other than adjustments of the format.

CIC-1 provides guidance when assessing “not acceptable condition”. Not acceptable condition should be repaired in accordance with the “action required” column.

Containers should comply with the provisions of Convention for Safe Containers (CSC) which requires examination in accordance with an approved procedure. Owners might decide to incorporate CIC-1 into their proposed approved procedure. The Administration of the country where the owner of the container is registered should approve the procedure. Ref: CSC Chapter1, Annex 1, Regulation 2

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



CORNER POST	CONDITION	ACTION REQUIRED
All corner posts, including J-bars	Holed, cut or torn; broken component and/or weld	Repair
	Missing or loose parts or fasteners	Repair
	Any deformation, such as bend, bow, dent, etc.	If exceeding ISO tolerances, see Table A
	Cracks	Repair
Rear corner posts	Any deformation causing interference with door operation, securement or weather tightness	Repair
J bars	Any deformation such as bend, bow, dent, etc. Door	Door must be able to open fully (270°). If door operation is impaired – Repair

SIDE & FRONT PANELS	CONDITION	ACTION REQUIRED
All side/front panels	Holed, cut, torn or cracked; broken component and/or weld	Repair
	Missing or loose parts or fasteners	Repair
	Any deformation, such as bend, bow, dent, etc.	If exceeding ISO tolerances, see Table A
	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	* If internal cube intrusion is GREATER than 35 mm (1-3/8 in), Repair  * Measured on exterior recessed corrugations as a 35 mm (1-3/8 in) inward deformation
	Any bow involving the length or height of a wall	If internal dimensions are reduced by more than 50 mm (2 in), Repair
Ventilator covers	Broken, missing, etc.	If cracked or broken in raised, nonperforated area of ventilator enclosing air passage, REPAIR. OR if damage exceeds TIR opening limit of 10 mm (3/8 in), Repair

DOORS	CONDITION	ACTION REQUIRED
Door assembly, including hardware	Holed, cut, torn or cracked; broken component and/or weld	Repair
	Missing or loose parts or fasteners	Repair
	Any deformation, such as bend, bow, dent, etc.	If door operation or securement is impaired, Repair OR if exceeding ISO tolerances, see Table A
	Seized, frozen or stiff	If door operation or securement is impaired, Repair
	Lack of water-tightness	Repair



Door panels	Any deformation such as bend, bow, dent, etc.	If internal CUBE INTRUSION is greater than 35 mm (1-3/8 in), Repair
	Any bow involving the length or height of a panel	If internal dimensions are reduced more than 50 mm (2 in) at any point, - Repair
Door gaskets	Loose or missing	Repair
	Cut, torn, cracked or burned	If not light-tight AND water-tight, Repair

ROOF	CONDITION	ACTION REQUIRED
Roof panels, header extension plates, corner protection plates and roof bows	Holed, cut, torn or cracked; broken component and/or weld Missing or loose parts or fasteners Any deformation, such as bend, bow, dent, etc.	Repair  Repair If exceeding ISO tolerances, see Table A
Roof bows	Any deformation, such as bend, bow, dent, etc	If more than 50 mm (2 in) in any direction, Repair
Corner protection plates and header extension plates	Any deformation, such as bend, bow, dent, etc.	If internal dimensions are reduced by more than 50 mm (2 in), Repair
Roof panels	Any deformation such as bend, dent, etc.	If internal CUBE INTRUSION is GREATER than 50 mm (2 in), Repair  If internal dimensions are reduced by more than 50 mm (2 in), Repair

FLOOR	CONDITION	ACTION REQUIRED
Floor, including threshold plate and centre support.	Holed	Repair
	Broken component and/or weld; missing, loose or protruding fasteners	Repair NOTE: No repair is necessary to cracked or broken welds of the centre support or gaps between boards if light-tight
Wooden flooring	Delamination or splinters	Repair
	Gouges (regardless of length)	If more than 15 mm (9/16 in) deep – Repair OR if more than 5 mm (3/16 in) deep and width of more than 150 mm (6 in) of the gouge, Repair
	Different heights of surfaces of adjacent planks or panels or between top plates of tunnel and fork pockets and floor boards	If difference is more than 10 mm (3/8 in), Repair
Plank flooring	Cracked or split	If light leaks, Repair
Threshold plate	Bent upwards	If more than 5 mm (3/16 in), Repair
Lash fittings	Broken parts and/or welds; missing or loose parts or fasteners	Repair
	Bent	If more than 50 mm (2 in) into the interior space of the container, REPAIR

UNDERSTRUCTURE	CONDITION	ACTION REQUIRED
Crossmembers, forklift pocket components (including straps), outriggers and gooseneck tunnel components	Holed, cut, torn or cracked; broken component and/or weld	Repair
	Missing or loose parts or fasteners	Repair
	Any deformation, such as bend, bow, dent, etc.	If exceeding ISO dimensional tolerances, see Table A
	Any deformation such as bend, bow, dent, etc. ON A WEB	If more than 50 mm (2 in) in any direction, Repair
	Any deformation such as bend, bow, dent, etc. ON A BOTTOM FLANGE	If torn, cracked or cut, Repair
	Any deformation such as bend, bow, dent, etc. ON A TOP FLANGE	If intrusion into container is more than 50 mm Repair
	TOP FLANGE separated from bottom of wood or steel flooring	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
Gooseneck tunnel assembly and forklift pocket top plate	Any deformation such as bend, bow, dent, etc.	If more than 50 mm (2 in), Repair

MARKINGS	CONDITION	ACTION REQUIRED
Markings required by regulations, international standard	Missing, loose or defaced	Repair
Markings required by owner	Missing, loose or defaced	Consult with owner
Marking plates	Loose, broken, missing plate or fasteners; illegible data	Repair

OTHER	CONDITION	ACTION REQUIRED
Corner fittings and their weld attachments	Cracked, loose, broken; apertures outside ISO dimensional tolerances	Repair
Entire container	Any deformation such as bend, bow, dent, etc. that affects ISO required diagonal dimensions between corner fitting apertures	If deformation exceeds ISO tolerances, REPAIR
End frame components (corner posts, front panel, doors, headers, sills, corner fittings)	Any deformation such as bend, bow, dent, etc. that affects other ISO required dimensions	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
Entire container, EXCEPT end frame components	Any deformation such as bend, bow, dent, etc. that affects other ISO required dimensions	See Table A, below

Table A

COMPONENTS	TABLE A: CIC + ISO DAMAGE LIMITS
Side panels	OUTWARDS: Maximum 20 mm (13/16 in) beyond plane of side surfaces of corner fittings * For side panels, measured on interior recessed corrugations as a 30 mm (1-3/16 in) outward deformation
Top side rails	OUTWARDS: Maximum 10 mm (3/8 in) beyond plane of side surfaces of corner fittings UPWARDS (rails): Maximum 4 mm (5/32 in) above plane of upper surfaces of top corner fittings
Bottom side rails	OUTWARDS: Maximum 10 mm (3/8 in) beyond plane of side surfaces of corner fittings DOWNWARDS: Not below the plane of the lower surfaces of the bottom corner fittings
Front and door headers Front and door panels	OUTWARDS: Maximum 5 mm (3/16 in) beyond plane of end surfaces of corner fittings UPWARDS (headers): Maximum 4 mm (5/32 in) above plane of upper surfaces of top corner fittings
Front sill (40' containers)	OUTWARDS: Sill face must be at least 1 mm (1/32 in) behind plane of end surfaces of corner fittings DOWNWARDS: Not below the plane of the lower surfaces of the bottom corner fittings
Corner posts	INWARDS: Follow criteria in Corner Post Inspection Criteria table [20 mm (13/16 in)] maximum. 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
Roof panels	DOWNWARDS: Follow Roof Inspection Criteria table [50 mm (2 in)] maximum internal dimension reduction) UPWARDS: Maximum 15 mm (5/8 in) above plane of upper surfaces of top corner fittings
Crossmembers, outriggers, fork-lift pocket sides and gooseneck tunnel rails	DOWNWARDS: Lower flange must be no lower than the plane of the lower surfaces of the bottom corner fittings INWARDS (fork-lift pocket sides): See "Fork-lift pocket opening WIDTH" below * Measured on the bottom flange as a 15 mm (5/8 in) downward deformation
Fork-lift pocket strap	DOWNWARDS: Minimum 10 mm (3/8 in) above plane of the lower surfaces of the bottom corner fittings UPWARDS: See "Fork-lift pocket opening HEIGHT" below
Fork-lift pocket opening	WIDTH: "LOADED" pockets: Minimum 345 mm (13 5/8 in) "EMPTY" pockets: Minimum 295 mm (11 5/8 in) HEIGHT: "LOADED" pockets: Minimum 105 mm (4 1/8 in) "EMPTY" pockets: Minimum 92 mm (3 5/8 in)
Gooseneck tunnel	LENGTH: Minimum 3140 mm (123 7/8 in); Maximum 3510 mm (138 1/4 in) WIDTH of tunnel opening X: Minimum 1019 mm (40 1/8 in); Maximum 1042 mm (41 in) HEIGHT of tunnel opening B: Minimum 107 mm (4 1/4 in); Maximum 130 mm (5 1/8 in)
Door opening	WIDTH: Minimum 2281 mm (89-13/16 in) HEIGHT: 8' high container: Minimum 2129 mm (83-13/16 in) 8'6" high container: Minimum 2256 mm (88-13/16 in) 9'6" high container: Minimum 2560 mm (98-13/16)

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