Contents

1. Scope 3
2. General 3
3. Handling 4
4. Transportation 4
5. Dimensions and Ratings 4
6. Construction .....错误!未定义书签。
7. Preservation 10
8. Markings 11
9. Testing and Inspection 12
10. Documents Submission 13
11. Guarantee 13
12. Materials 15

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

1. Scope

This specification covers design, construction, materials, testing, inspection & prototype container. The container is built in accordance with the requirements of I.S.O. 1CC Type steel dry freight containers by China International Marine Containers (Group) Limited (CIMC).

This Specification is for the purposes of information only and should not be copied without permission of CIMC.

2. General

2.1 Operational Environment

The container will be designed and constructed for the transportation of general cargo on sea (above or under deck) and on land (road or rail) throughout the world, and will be suitable for the environmental conditions imposed by those modes of transport. All materials used in the construction will be able to withstand extreme temperature ranging from -40°C (-40°F) to 70°C (158°F) without effect on container's strength and watertightness.

2.2 Standards & Regulations

2.2.1 Latest ISO container standard:

668	- Series 1 freight containers - Classification, external dimensions and ratings
6346	- Coding, identification and marking for freight containers
1161:1984	- Series 1 Freight Containers - Corner Fittings – Specification
1496-1	- Specification and testing of series 1 freight containers. Part 1: General cargo containers for general purposes
830	- Freight containers – Terminology.

2.2.2 Classification Certificate

All the containers shall be certified for design type and individually inspected by Classification Society BV, ABS, CCS, LR or GL.

2.2.3 T.C.T Certificate

Certificate of timber treatment as per the latest requirement of Australian Biosecurity Import Conditions (BICON)

2.2.4 Customs Certificate (T.I.R.)

Customs' Approval and Certificate to be issued by the Customs.

2.2.5 U.I.C. Registration

All the containers will be registered & comply with the International Union of Railways.

2.2.6 C.S.C. Certificate

All the containers will be certified and comply with the requirements of the International Convention for Safe Containers.

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

3. Handling

The container will be constructed to be capable of being handled without any permanent deformation, which will render it unsuitable for use or any other abnormality during the following conditions:

1) Lifting, full or empty, at the top corner fittings vertically by means of spreaders fitted with hooks, shackles or twistlocks.
2) Lifting, full or empty, at the bottom corner fittings using slings with appropriate terminal fittings at slings angle of forty-five (45) degrees to horizontal.
3) Lifting, full or empty, at two fork pocket by fork lift truck.

4. Transportation

The container shall be constructed to be suitable for transportation for following modes without any permanent deformation which will render the container unsuitable to use or any abnormality.

4.1 Marine:

- **In the ship cell guides:** Eight (8) high stacked based on Max. gross weight 30,480 kg.
- **On the deck:** Four (4) high stacked and secured by suitable vertical and diagonal wire lashings.

4.2 Road - On flat bed or skeletal chassis:

Secured by twistlocks or the equivalent at the four bottom corner fittings.

4.3 Rail - On the flat cars or special container car:

Secured by twistlocks or the equivalent at the four bottom corner fittings.

5. Dimensions and Ratings

5.1 Dimension

	External Dimensions	Internal Dimensions
Length	6,058 (0, -6) mm	5,898 (0, -6) mm
Width	2,438 (0, -5) mm	2,352 (0, -5) mm
Height	2,591 (0, -5) mm	2,393 (0, -5) mm

No part of the container will protrude beyond the external dimensions mentioned above.

Maximum allowable differences between two diagonals on any one of the following surfaces are as follows:

Roof, Bottom and Side Diagonals ..... 13 mm
Front and Rear Diagonals ..... 10 mm.

5.2 Door Opening

Width	2,340 (0, -5)	mm
Height	2,280 (0, -5)	mm

5.3 Fork Pocket

Width	360	mm
Height	115	mm
Center distance	2,080	mm

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

5.4 Inside Cubic Capacity

33.2 cu.m 1,170 cu.ft

5.5 Rating

Maximum Gross Weight	30,480 kg	67,200 lbs
Maximum Payload	28,380 kg	62,570 lbs
Tare Weight (±2%)	2,100 kg	4,630 lbs

5.6 Corner Protrusions

1) The upper faces of the top corner fittings will protrude above the highest level of the roof construction except corner plate by 6 mm.
2) For the containers under empty condition the lower faces of the cross members in their bases including their end transverse members shall be on a plane located at 12.5 (-1.5, +5) mm above the lower faces of the bottom corner fittings.
3) The outer side faces of the corner fittings will protrude from the outside faces of the corner post by minimum 3 mm. The outer side faces of the corner fittings will protrude from the outside faces of the side walls by nominal 7 mm and from the outside faces of the front end wall by 7.4 mm.
4) For the containers under the condition such as the load equal to 1.8R - T is uniformly distributed over the floor, no part of the container base will deflect by more than 6 mm below the lower faces of the bottom corner fittings.

6.1 General

The container will be constructed with steel frames, fully vertically corrugated steel side and end walls, die-stamped corrugated steel roof, wooden flooring, corrugated double hinged doors and ISO corner fittings at eight corners. All steelworks will be built up by means of automatic and semi-automatic CO2 gas arc welding. All exterior weldings including that on base structure will be continuous to give perfect watertightness, Interior welds will be intermittent with a minimum bead length of 25 mm for every 200 mm. All the welds, even spots, will have penetration without undercutting or porosity. The tolerance of steel plate thickness will obey JIS standard G3193-1990, table 4.

6.2 Corner Fittings

Corner fittings will be designed in accordance with ISO/1161: 1984 standard and manufactured at the workshops approved by the classification society.

6.3 Base Frame

The base frame will be composed of two (2) bottom side rails, a number of crossmembers and a pair of fork pockets, which are welded together as a sub-assembly.

6.3.1 Bottom Side Rail

Each bottom side rail is built of a double "Z" section steel pressing. The bottom flange face outwards so as to be easily repaired and hard to corrode.

Qty. : Two (2).
Shape : Double "Z" section.
Dimension : 155 x 52 x 28 x 4.5 mm.

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

6.3.2 Crossmember

The crossmembers are composed of a number of small pressed channel section and some large one with three 4.0 mm thick webs located beneath each board joint of the plywood, which are placed at certain center distance.

Shape : " C " section
Small one : 122 x 45 x 45 x 4.0 mm , Qty. : 16
Large one : 122 x 75 x 45 x 4.0 mm , Qty. : 2

6.3.3 Fork Pocket

One pair of fork pockets will be provided in accordance with ISO requirements for loaded handling. Each fork pocket is constructed with two adjacent crossmembers, a top plate and two bottom end plates. An angle stiffener plate will be welded to each opening of fork pocket.

Top plate : 3.0 mm Thk.
Bottom plate : 6.0 mm Thk.
Stiffener plate : 4.0 mm Thk.

6.3.4 Reinforcement

Reinforcement plates will be welded at two ends of bottom side rail.

Dimension: 200 x 120 x 4.0 mm

6.4 Front End

The front end will be composed of corrugated end wall and front end frame, which are welded together as a sub-assembly.

6.4.1 Front End Wall

The front end wall is composed of steel sheet fully vertically corrugated into trapezium section, butt joint together to form one panel by means of automatic welding.

Thickness: 2.0 mm
Corrugation dimension- Outerface: 110 mm , Depth: 45.6 mm
Interface: 104 mm , Slope: 18 mm

6.4.2 Front End Frame

The front end frame will be composed of one front sill, two corner posts, one front header and four corner castings.

6.4.2.1 Front Sill

The front sill is made of a special "C" section steel pressed with vertical webs as the stiffener.

Front sill : 4.0 mm Thk.
Web : 4.0 mm Thk. Qty.: 3 Pcs.

6.4.2.2 Corner Post

Each corner post is made of a 6 mm thick section steel pressing to ensure the suitable strength, light-weight and easy maintenance.

6.4.2.3 Front Header

The front header is constructed of one 4.0 mm thick "Z" shaped pressing steel plate with reinforcements at each top corner. The inner part is extended inwards of the container certain distance with full width from front part of top corner

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

fittings.

6.5 Rear End

Rear end is composed of Rear End Frame which consists of one door sill, two corner posts, one rear header with header plate and four corner fittings, which are welded together as a sub-assembly, and Door Systems with locking devices.

6.5.1 Door Sill

The door sill is built of a special channel section steel pressing with internal ribs as stiffeners at the back of each cam keeper. The upper face has a slope for better drainage and the highest part is on the same level to the upper face of the wooden floor.

a) Door sill : 4.5 mm thick Slope : 1:10 approx.
b) Stiffener ribs : 4.0 mm thick Qty. : 4 Pcs.

6.5.2 Corner Post

Each corner post is constructed from an inner part of channel shaped hot-rolled section steel and an outer part of steel pressing, welded together to form a hollow section to ensure the door opening and suitable strength against the stacking and racking force. Four (4) sets of hinge pin lugs are welded to each outer part of the corner post.

Inner part : 113 x 40 x 12 mm
Outer part : 6.0 mm thick

6.5.3 Door Header

The door header is constructed from a lower part of a "U" shaped steel pressing with internal stiffener ribs at the location of the back of cam keeper and an upper part of steel pressing rear header plate, they are welded together to form a box section to provide a high rigidity.

Rear header : 4.0 mm thick
Header plate : 3.0 mm thick
Rib : 4.0 mm thick, Qty.: 4

6.5.4 Door Systems

Doors will consist of two door leaves, each leaf with two locking devices, four hinges and pins, seal gaskets and the door holders. The doors will be installed by hinge pins to the rear end frame and capable of swinging about 270 degrees.

6.5.4.1 Door Leaves

Each leaf consists of door panel, steel door frame which consists of horizontal (upper & lower) and vertical (inner & outer) members. They are welded together to form the rectangular door leaves. The doors are so arranged that the left leaf cannot be opened without displacement of the right leaf.

1) Door Panel: With 5 corrugations

Depth	: 36 mm	Slope	: 68 mm
Width	: 72 mm	Panel thickness	: 2.0 mm

2) Door frame:

a) Horizontal door member: 150 x 50 x 3.0 mm, channel section

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

b) Vertical door member: 100 x 50 x 3.2 mm RHS (inner & outer)

6.5.4.2 Hinges and Pins

Four forged hinges, providing with bushed hole, are welded to each door leaf. Each door is installed by hinge pins, washers and bushings.

Washer - SUS304, under the bottom of hinge
Bushing - Self-lubricating synthetic
Pin - SUS304

6.5.4.3 Locking Devices

Two locking bars are of steel tube with handles, anti-racking rings and cam ends, and fixed to each door leaf with bolts / nuts and six huck bolts at TIR locations, by top and bottom bearing brackets and bar guide brackets. The bars are suspended in bearing brackets with bush of self-lubricating synthetic material. Cam-keepers are welded to the door header and sill.

a) Locking device type: Saejin SJ-88MOD, HaiHang HH-ET/S MODIFIED or Suraloc SL-F/5 with secura cam & keeper.
b) Locking bars treatment: Hot-Dipped galvanized (75 Microns)
c) Bolts & nuts treatment: HDG bolts and EZP nuts.
d) Cam keeper treatment: Electro zinc plated.

6.5.4.4 Door Holder and Receptacle

A door holder per door, made of mixed nylon rope, is tied to the center side locking rod & the receptacle (door hook) is welded to each bottom side rail to remain the door at the open position.

6.5.4.5 Seal Gaskets

The black door seal gaskets are of "J-C" type EPDM rubber. They are attached to the door frame with stainless steel rivets and retainer strips. The gasket is set with adhesive sealant on the back.

6.5.4.6 Shim

The E.P.D.M shim will be placed over the holes on the door for fastener.

6.6 Side Wall Assembly

6.6.1 Top Side Rails

Each top side rail is used a square steel pipe.

Rail: 60 x 60 x 3.0 mm RHS

6.6.2 Side Walls

Each side wall will be composed of a number of sheets for the intermediate (inner) parts and outer panels at each end of side wall, fully vertically corrugated into trapezium section, butt welded together to form one panel by automatic welding.

a) Inner panel : 1.6 mm Thk. , Qty. : 3 Pcs/Each side
b) Outer panel : 2.0 mm Thk. , Qty. : 2 Pcs/Each side
c) Trapezium:
Outer face : 72 mm , Slope : 68 mm

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

Inner face : 70 mm , Depth : 36 mm
Pitch : 278 mm ,

6.7 Roof

The roof will be constructed by several die-stamp corrugated steel sheets with a certain upwards camber at the center of each trough and corrugation, these sheets are butt jointed together to form one panel by automatic welding.

Corrugation Shape - Depth : 20 mm , Pitch : 209 mm
Inter face : 91 mm , Slope : 13.5 mm
Outer face : 91 mm ,
Camber upwards : 5 mm
Panel thickness : 2.0 mm
Sheet Qty. : 5 Pcs.

6.7.1 Roof reinforcement plate

Four 3.0mm Thk. reinforcement plates shall be mounted around the four corner fittings.

6.8 Floor

6.8.1 The Floor Boards

The floor consists of plywood. The plywood is treated with wood preservative containing according to the latest requirement of Australian Biosecurity Import Conditions (BICON).

Plywood thickness : 28 mm
Plywood moisture content : Less than 14 %
Plywood ply number : Min. 19 plies
Plywood material : Apitong/hardwood

6.8.2 Arrangement and Fixing

The plywood boards are longitudinally laid on the crossmember with a pre-blasted painted and free floating flat steel at the center. The plywood boards are tightly secured to each crossmember with countersunk self-tapping electro-zinc plated steel screws. These heads of the floor screws are countersunk below the level of the upper surface of the floor by 1.5 mm to 2.5 mm.

Screws : M8 x 45 x Φ16(head), Electro zinc plated
Screws' Qty. : 6 Pcs/end row, 4 Pcs/other
Flat bar : 50 x 4.0 mm, primed and painted

6.9 Special Features

6.9.1 Customs Seal Provision

Customs seal provisions are made on each locking handle and retainer in accordance with TIR requirements.

6.9.2 Lashing rings

1) Lashing rings are welded to each bottom and top side rail at corresponding recessed area of side wall.
   Lashing ring Qty. / Each bottom or top side rail: 5, Total: 20
2) Lashing rods are welded on each rear & front corner post slot.
   Lashing rods Qty. / Each front corner post: 3, Total: 6

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

Lashing rods Qty. / Each rear corner post: 3, Total: 6

3) Capabilities of pull load of every lashing point are as following:
   a) Lashing rings on the side rails: 1,500 kg/each
   b) Lashing rods on the corner posts: 1,000 kg/each
4) Treatment of lashing ring / bar: Electro zinc plated

6.9.3 Sill Cut-Outs

200 x 75 x 9mm channel section steel recesses are provided in each end of rear and front sills adjacent to the bottom fitting to prevent damage due to any twistlock misalignment.

6.9.4 Ventilators

One ventilator with E.P.D.M seal gasket is supplied on each side wall at the right-hand end when facing the outside of container, fixed by aluminum huck bolts, the seal is to be applied on the edges except the bottom side of the ventilator, after the completion of paint.

Quantity: 1 / each side panel
Material: ABS Labyrinth Type.

6. Preservation

7.1 Surface Preparation of the Steelwork

1) All the steel surfaces prior to forming or after will be degreased and shot blasted to Swedish Standard SA 2.5 to obtain the surface roughness at 25 to 35 microns which can result in the removement of all the rust, dirt, mill scale and all other foreign materials.
2) Locking rod assemblies, which are welded with gear cams, bars holder and handle hinges, are hot dipping galvanized (Thickness: 75 microns).
3) All fasteners such as bolts/nuts, washers, self-tapping screws, which are not mentioned in this Spec. will be electro zinc plated to 13 Microns.
4) Hinges and cam keepers will be electro zinc plated to 13 Microns.
5) Sealant
   Each perimeter of the floor, all the overlapped joints of inside, all the holes for bolts and nuts and all the places where may leak water will be sealed to give prevention against water entry.
   Sealant Materials:
   a. Chloroprene/Neoprene/waterborne (Cargo contact area)
   b. Butyl (Hidden parts and other area)

7.2 Coating

7.2.1 Prior to Assembly

All the steel surfaces will be coated with primer paint immediately after shot-blasting.

7.2.2 After Assembly

All the weld joints will be shot-blasted to remove all the welding fluxes, spatters, burnt primer coatings caused by welding heat, and other foreign materials, and followed with the secondary paint operation immediately.

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

7.2.3 All the surface of the assembled container will have coating system as follows:

Process	Paint Name	DFT (μ)
Exterior Surface	Epoxy zinc rich primer	10
	Waterborne epoxy zinc rich primer	20
	Waterborne epoxy or acrylic primer	40
	Waterborne acrylic topcoat,color: RAL3009	40
	Total:	110
Interior Surface	Epoxy zinc rich primer	10
	Waterborne epoxy zinc rich primer	20
	Waterborne epoxy topcoat, RAL 7035	40
	Total:	70
Under Structure	Epoxy zinc rich primer	10
	Waterborne epoxy zinc rich primer	20
	Waterborne undercoating (Jointas JT-321, Ivan-512, JL-100)	200(steel parts) 100(floorboard)
	Total:	230(steel parts)

* The DFT decision rules in practice is 90-10:

For each area, and coat, less than 10% of the readings may be below the DFT specified. No readings may be below 90% of the DFT specified. Areas where the total DFT is more than twice the DFT specified are not acceptable and must be redone completely.

* Epoxy zinc rich primer and epoxy topcoat are not applied to the wooden floor.

7. Markings

8.1 Lettering

The markings will be designed decal and arranged according to buyer's requirement. The markings consist of the following contents:

1) Owner's emblems ..... according to owner's design.
2) Owner's code , serial number and check digit (outside & inside)
3) Size and type code (outside)
4) Weight details (on door)
5) Material of marking:
6) Supplier of marking:.

8.2 Consolidate Plate

8.2.1 The containers will bear marking plate in accordance with the requirements of the Classification Authorities and owner such as mentioned in section 2 in this specification. The plate will be permanently riveted to the specified position by rivets and adhesive tape.

Plate material : SUS304
Plate treatment : Chemically etched & enameled
Rivets material : SUS304
Plate thickness : 0.8 mm

8.2.2 Contents of the plate:

1) Owner's plate (name and address).
2) CSC approval No.

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

3) Customs approval No.
4) Australian wood treatment.

The engraved letters on this plate are as following:

IM : Immunization
XXXX: The name of preservative.
XXXX: The time of immunization.

5) Date of manufacture (year-engraved, month-stamped)
6) Owner's serial number (stamped)
7) Owner's model number.

8. Testing and Inspection

9.1 Proto-type Container

Proto-type container to be manufactured in accordance with this specification and shall be tested according to procedures described in the ISO 1496/1 and the Classification Society's requirements.

9.2 Container in Mass Production

9.2.1 Every container in mass production shall be manufactured under effective quality control procedures to meet the specified standards. One in every 200 of containers shall be tested for following items:

a) Stacking test
b) Lifting from top corner fitting test
c) Lifting from bottom corner fitting test
d) Floor test.

After completion, all the containers shall be subject to dimension check, door operation check, light leakage test & production type weather-proofness test. The containers shall be inspected by the surveyor of Classification Society and identified by the appropriate society seal.

9.2.2 10% of assembled corner post structure will have tension test with 15,240 kgs after welding in the construction line.

9.3 The proposed sequence & procedure table for general prototype testing:

Sequence of test	Test Load	Procedure
a. Stacking	Internal Load: 1.8R-T Testing load: 97,200kg/post	Hydraulic cylinder load to corner post through top corner fittings.
b. Lifting from Top Corner Fittings	Internal Load: 2R-T	Lifting vertically from top corner fittings. Time duration: 5 mins.
c. Lifting from Bottom Corner Fittings	Internal Load: 2R-T	Lifting from bottom corner fitting 45° Deg. To horizontal. Time duration: 5 mins.
d. Lifting from Fork Pocket	Internal Load: 1.6R-T	Lifted by horizontal bars. Bar length: 1828 mm, Bar width: 200 mm, Time duration: 5 mins.
e. Restraint (Longitudinal)	Testing Load: 2R(R/side)	Hydraulic cylinder load applied to bottom side rails in compression & then tension.

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

	Internal Load: R-T		
f. Floor Strength	Truck Load: 7,260 kg		Special truck is used. Total contact area: 284 sq cm, Wheel width: 180 mm, Wheel center distance: 760 mm
g. Wall Strength (Front & Door)	Test Load: 0.4 P		Compressed air bag is used.
h. Side Wall Strength	Test Load: 0.6 P		Compressed air bag is used.
i. Roof Strength	Test Load: 300 kg		Applied area will be the weakest place of 600 x 300 mm longitudinal & transverse.
j. Rigidity (Transverse)	Test Force: 15,240 kg (150 kn)		Hydraulic cylinder will be applied to front top end rail & door header through top corner fittings, each time pulling & pushing.
k. Rigidity (Longitudinal)	Test Force: 7,620 kg (75 kn)		Hydraulic cylinder load will applied to side top rail through top corner fittings.
l. Weather proofness	Nozzle: 12.5 mm (inside dia.) Pressure: 100 kpa (1 kg/sq.cm)		Distance: 1.5 m Speed: 100 mm/Sec.

Note: R - Maximum gross weight T - Tare weight P - Maximum payload

9.4 Inspection

9.4.1 Materials and Component Parts Inspection

All the materials and components will be inspected by Quality Control Dept. To make sure that the most suitable and qualified components being used for the containers and to meet this specification.

9.4.2 Production Line Inspection

Every container will be manufactured under effective Quality Control procedures, and every production line of the factory will be inspected and controlled by the Quality Control Dept. to meet this specification.

9. Documents Submission

10.1 When Contracting

CIMC shall submit the specification with following drawing (3 sets):

General arrangement	Side wall assembly
Base assembly	Front end assembly
Rear end assembly	Roof assembly
Marking arrangement	

10.2 When delivery

The owner shall inform CIMC all the documents needed two weeks before the date of delivery and CIMC will be submit them to the owner.

10. Guarantee

The guarantee period will commence at the day of delivery and the delivery is not later than three (3) months after the containers are accepted by the owner.

11.1 Paint Guarantee

The paint system applied to the container surface shall be guaranteed against

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

corrosion and/or paint failure for a period of five (5) years. The guarantee shall be applied to all the kinds of faults / failures affecting more than 10 % of any given part of the container, and partial or total repainting shall be assured for the container(s) at the manufacturer's expense. Normal wear/tear, or corrosion caused by acid, alkaline solution or result from damages by abrasion impact or accident are excluded. Corrosion is defined as the rusting exceeding RE3 (European scale of degree of rusting).

11.2 Other Guarantee

All containers shall be guaranteed against any defects or omissions in construction, poor workmanship, or defective materials for a period of one (1) year. Any damages caused by mis-handling, mis-securing, mis-loading, impact and other natures of accident are excluded. The self-adhesive film decal shall be guaranteed seven (7) years.

This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

11. Materials

The main materials used in construction are as follows or approved equivalent:

Where used	Materials
Front End Assembly	
Front corner post	Corten A
Front sill	Corten A
Front panel	Corten A
Front header	Corten A
Base Assembly	
Bottom side rail	Corten A
Crossmember	Corten A
Fork pocket assembly	Corten A
Floor center rail	Corten A
Rear End Assembly	
Rear corner post (outer)	Corten A
Rear corner post (inner)	SM50YA (or SS50)
Rear header cap	Corten A
Door header lower	Corten A
Door sill	Corten A
Door panel frame	Corten A
Door panel	Corten A
Door hinge	SS41, Electro zinc plated
Door hinge pin	SUS304
Locking cam keeper	SS41, Electro zinc plated
Locking cam	SS41, H.D.G.
Locking rod	STK41, H.D.G.
Door gasket	E.P.D.M
Gasket retainer	SUS304
Washer	SUS304
Rivet	SUS304
Shim	E.P.D.M.
Corner fitting	SCW49
Side Wall Assembly	
Side panel	Corten A
Top side rail	Corten A
Lashing bar, lashing ring	SS41, Electro zinc plated
Ventilator	A.B.S
Roof	
Roof corner gusset	Corten A
Roof panel	Corten A

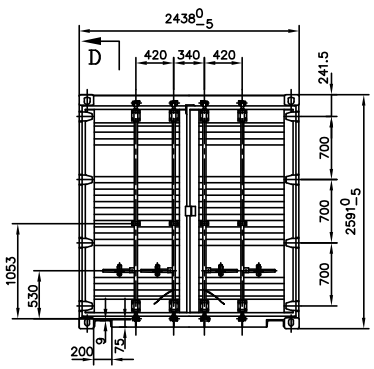
This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

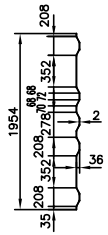
Note:

Material	Yield point (Kg/sq.mm)	Tensile strength (Kg/sq.mm)
SS41	25	41
JIS SCW49	28	49
SS50	29	50
SM50YA	37	50
Corten A	35	49
SM50A	33	50

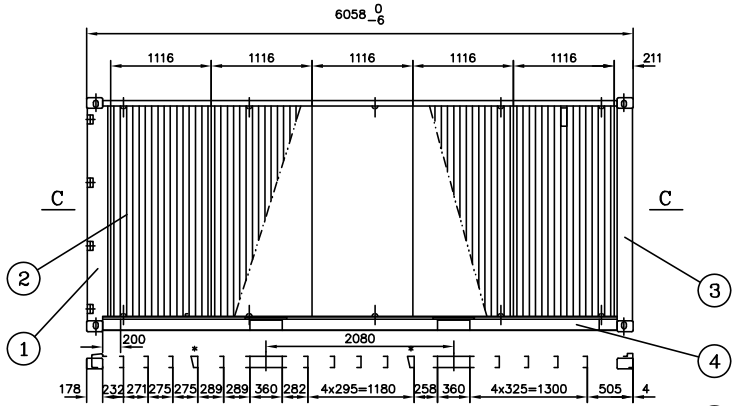
This file is strictly confidential and privileged. It is intended only for the use of the intended recipient. If you are not the intended recipient, please notify us immediately by e-mail at hsd@cimc.com, or phone +86 755 26691130. Do not copy, forward or use this Specification for any unauthorized purpose or disclose the contents to any person.

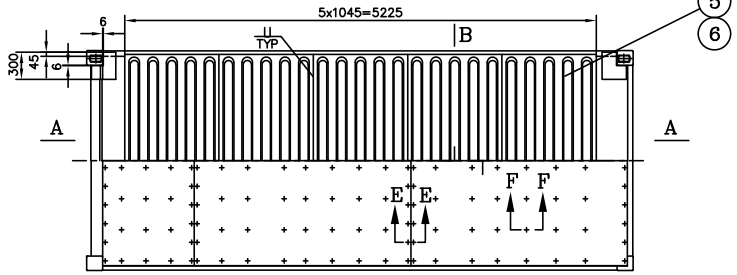
DWG No.: 290A22G1G



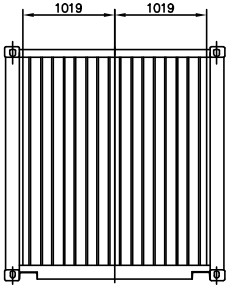


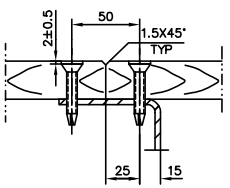
SECTION D-D



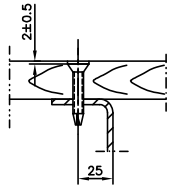


B

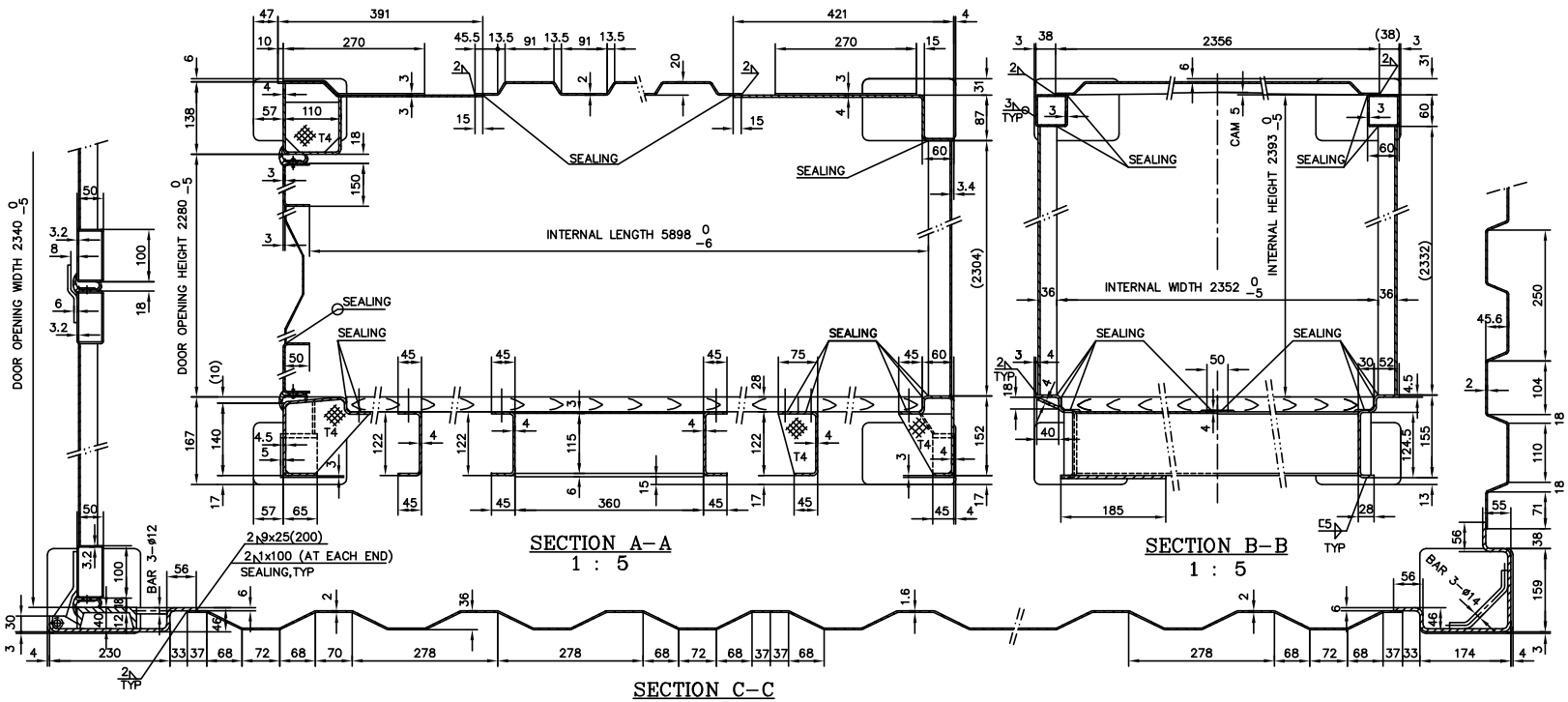




SECTION E-E
1 : 2



SECTION F-F
1 : 2



SECTION A-A
1 : 5

SECTION B-B
1 : 5

SECTION C-C
1 : 5

CLASSIFICATION		DIMENSION	
EXTERNAL	LENGTH	6058 0 -6	19' -10 1/2" 0 -15/64"
	WIDTH	2438 0 -5	8' 0 -3/16"
	HEIGHT	2591 0 -5	8' -6" 0 -3/16"
INTERNAL	LENGTH	5898 0 -6	19' -4 13/64" 0 -15/64"
	WIDTH	2352 0 -5	7' -8 19/32" 0 -3/16"
	HEIGHT	2393 0 -5	7' -10 7/32" 0 -3/16"
DOOR OPENING	WIDTH	2340 0 -5	7' -8 1/8" 0 -3/16"
	HEIGHT	2280 0 -5	7' -5 49/64" 0 -3/16"
INTERNAL CUBIC CAPACITY		33.2 M³	1170 FT³

MAX GROSS WEIGHT	30480 KGS	67200 LBS
TARE WEIGHT	2100 KGS	4630 LBS
MAX PAY LOAD	28380 KGS	62570 LBS
STACKING TEST LOAD	97200 KGS	214290 LBS
FLOOR STRENGTH	7260 KGS	16000 LBS

ITEM	DESCRIPTION	DWG NO.	ISSUE	QTY.
6	MARKING ARRANGEMENT	290A22G1M	19A-00	1
5	ROOF ASSEMBLY	290A22G1R	19A-00	1
4	BASE ASSEMBLY	290A22G1B	19A-00	1
3	FRONT END ASSEMBLY	290A22G1F	19A-00	1
2	SIDE WALL ASSEMBLY	290A22G1S	19A-00	2
1	REAR END ASSEMBLY	290A22G1E	19A-00	1

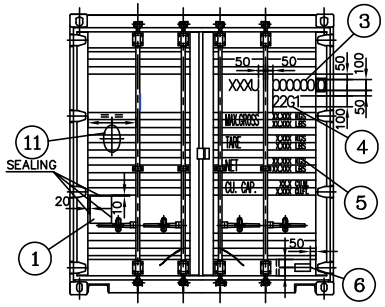
TITLE: 20'x8'x8'6" GENERAL ARRANGEMENT

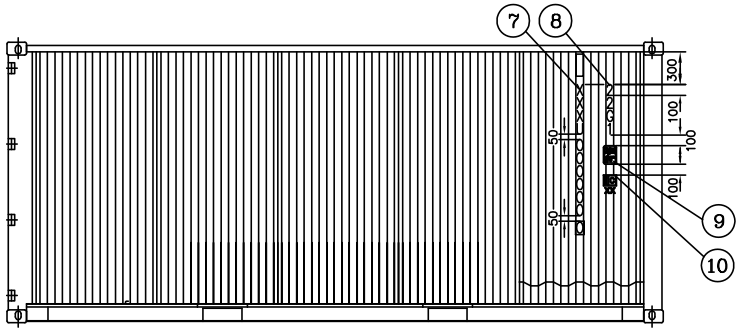
CUSTOMER:		SCALE: 1 : 30	
DESIGNED BY:		WEIGHT: KG.	QTY.: 1
CHECKED BY:		DWG No.: 290A22G1G	
APPROVED BY:			
SHEET 1 OF 1 SHEETS		ISSUE: 19A-00	

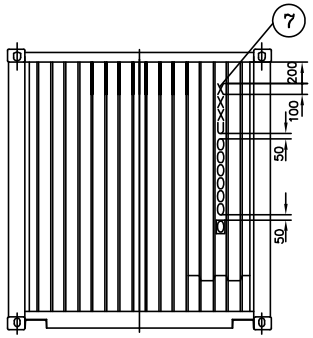
CIMC

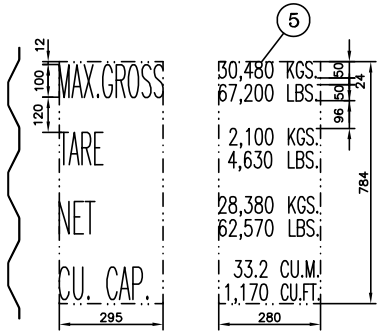
THIS DRAWING AND ALL COPIES THEREOF ARE CONFIDENTIAL AND THE PROPERTY OF CIMC. ANY PART OF THE DRAWING SHALL NOT BE COPIED, REPRODUCED, DISCLOSED OR DISTRIBUTED TO ANY PARTY WITHOUT PRIOR WRITTEN APPROVAL FROM CIMC.

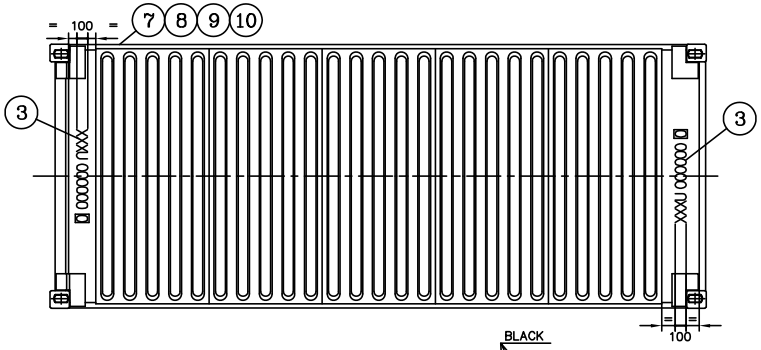
DWG No.: 290B22G1M

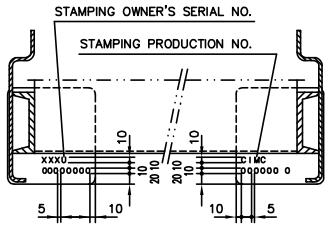




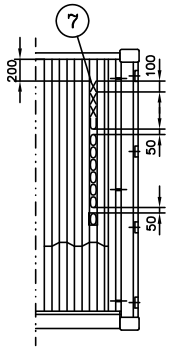




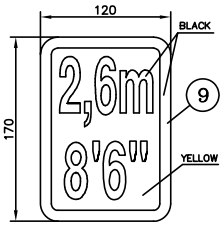


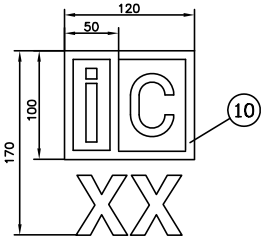


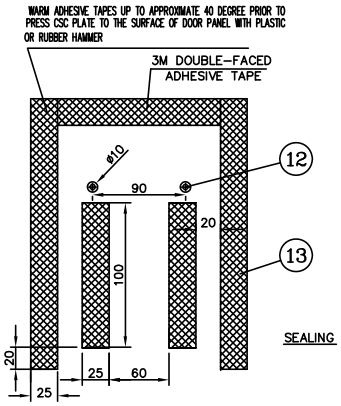
REAR END BOTTOM CORNER FITTING

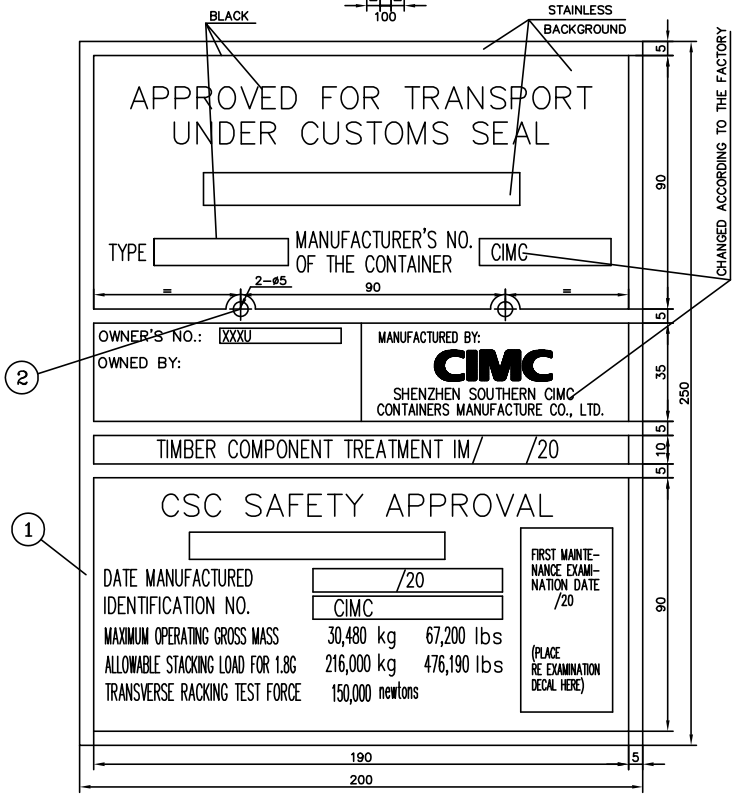


INSIDE RIGHT SIDE WALL









NOTE:

ITEM	DESCRIPTION	DWG No.	MATERIAL	TH.	QTY.
13	DOUBLE SIDE ADHESIVE TAPE	M040001			0.85M
12	PLAIN WASHER	0.8x⌀5(ID)x⌀10(OD)	SUS304		2
11	CLASSIFICATION DECAL				1
10	UIC MARK		RAL1016,KISSCUT		2
9	8'6" HEIGHT MARK		BLACK ON YELLOW		2
8	SIZE AND TYPE CODE		RAL1016,KISSCUT		2
7	OWNER'S CODE AND SERIAL NUMBER		RAL1016,KISSCUT		4
6	CIMC DECAL				1
5	WEIGHT DECAL	M100004	RAL1016,KISSCUT		1ST
4	SIZE AND TYPE CODE		RAL1016,KISSCUT		1
3	OWNER'S CODE AND SERIAL NUMBER		RAL1016,KISSCUT		3
2	RIVET	⌀4.8x7,OPEN TYPE	SUS304		2
1	CONSOLIDATED PLATE(T=0.8mm)	M010001	SUS304		1

TITLE: MARKING ARRANGEMENT

CUSTOMER:		SCALE:	1 : 25
DESIGNED BY: LXY	Jan.02.2019	WEIGHT: KG.	QTY.: 1
CHECKED BY: JYQ	Jan.02.2019	DWG No.:	290B22G1M
APPROVED BY: HSD	Jan.02.2019		
SHEET 1 OF 2 SHEETS		ISSUE:	19A-00

CIMC

THIS DRAWING AND ALL COPIES THEREOF ARE CONFIDENTIAL AND THE PROPERTY OF CIMC. ANY PART OF THE DRAWING SHALL NOT BE COPIED, REPRODUCED, DISCLOSED OR DISTRIBUTED TO ANY PARTY WITHOUT PRIOR WRITTEN APPROVAL FROM CIMC.