

TECHNICAL SPECIFICATION

FOR

STEEL OPEN HARD TOP CONTAINER

40' x 8' x 9'6" ISO 1AAA TYPE
(Bamboo Floor)

MODEL NO : CX14-41HTO01

SPEC. NO : CX14-41HTO01-S

DATE OF ISSUE : Aug 03, 2019

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1. General

1.1 Scope

This specification will cover the design, construction, materials, testing and inspection performances of 40' x 8' x 9'6" ISO 1AAA type steel open hard top containers.

These containers specified herein will be manufactured at _____ (hereinafter referred to as '_____') under strict quality control by _____ and be approved by the classification society or agency.

1.2 Operational environment

The container will be designed and constructed for carriage of general cargo by marine (on or below deck), road and rail throughout the world. All materials used in the construction will be to withstand extremes of temperature range from -30°C (-22°F) to +70°C (+176°F) without effect on the strength of the basic structure and watertightness.

1.3 Standards and Regulations

The container will satisfy the following requirements and regulations, unless otherwise mentioned in this specification.

1.3.1 ISO Container Standards (1AAA type)

- ISO 668 -- Series 1 freight containers - Classification external dimensions and ratings [Amd. 1993 (E)]
- ISO 830 -- Terminology in relation to freight container (Amd. 1988)
- ISO 1161 -- Series 1 freight containers - Corner fittings Specification (Amd. 1990)
- ISO 1496-1 -- Series 1 freight containers - Specification and testing.
part 1: General cargo containers for general purposes (Amd.2 - 1998)
- ISO 6346 -- Freight containers - coding, identification and marking - 1995(E)

1.3.2 T.I.R. Certification

All the containers will be certified and comply with "The Customs Convention on the International Transport of Goods under the cover of T.I.R. Carnets." or "The Customs Convention on Containers."

1.3.3 C.S.C. Certification

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

1.3.4 T.C.T. Certification

All exposed wooden components used for container will be treated to comply with the requirements of Department of Agriculture and Water Resources (DAWR) regulations: Australian Biosecurity Import Conditions (BICON).

1.3.5 Classification society

All the containers will be certified for design type and individually inspected by classification

society, **BV, ABS, or LR,**

Note:

BV	:	Bureau Veritas (<i>France</i>)
ABS	:	American Bureau of Shipping (<i>USA</i>)
LR	:	Lloyd's Register of Shipping (<i>UK</i>)

1.4 Handling

The container will be constructed to be capable of being handled without any permanent deformation under the following conditions:

- a) Lifting, full or empty, at top corner fittings vertically by means of spreaders fitted with hooks, shackles or twistlocks.
- b) Lifting, full or empty, at bottom corner fittings using slings with terminal fittings at any angles between vertical and 30 degrees to the horizontal.
- c) Lifting, empty, at forklift pockets using forklift truck.

1.5 Transportation

The container will be constructed to be suitable for transportation in the following modes:

- a) Marine : In the ship cell guides of vessels, seven (7) high stacked.
On the deck of vessels, four (4) high stacked and secured by vertical and diagonal wire lashings.
- b) Road : On flat bed or skeletal chassis, secured by twistlocks or equivalent at the bottom corner fittings.
- c) Rail : On flat cars or special container cars secured by twistlocks or equivalent at the bottom corner fittings.

2. Dimensions and Ratings

2.1 External Dimensions

Length	12,192	+ 0mm	40'	+0
		-10mm		-25/64"
Width	2,438	+ 0mm	8'	+0
		- 5mm		-3/16"
Height	2,896	+ 0mm	9'6"	+0
		- 5mm		-3/16"

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

2) Maximum allowable differences between two diagonals on anyone of the following surfaces will be as follows:

Roof, bottom and side diagonals :	19mm	3/4"
Front and rear diagonals :	10mm	3/8"

2.2 Internal Dimensions

Length	12,032	+ 0mm	39' 5 45/64"	+0
		-10mm		-25/64"
Width	2,352	+ 0mm	7' 8 19/32"	+0
		- 5mm		-3/16"
Height	2,646	+ 0mm	8' 8 11/64"	+0
		- 5mm		-3/8"
Roof opening length	11,674	mm	38' 3 39/64"	
Roof opening width	2,182	mm	7' 1 63/64"	

2.3 Door opening dimensions

Width	2,340	+ 0mm	7' 8 1/8"	+0
		- 5mm		-3/16"
Height	2,585	+ 0mm	8' 5 49/64"	+0
		- 5mm		-3/16"

2.4 Internal cubic capacity (Nominal)

75 cu.m 2,650 cu.ft

2.5 Gooseneck tunnel

Length	3,316	mm	10' 10 33/64"	
Width	1,029	+3mm	3' 4 1/2"	+1/8"
		-0mm		-0
Height	120	+0mm	4 23/32"	+0
		-3mm		-1/8

2.6 Forklift pockets (only for empty)

Width	360	mm
Height (min.)	115	mm
Centre to centre	2050mm +/- 50	mm

"

2.6 Ratings

Max. Gross Weight (R)	32,500	kgs	71,650	lbs
Tare Weight (design) (T)	4,800	kgs	10,580	lbs
Max. Payload (P)	27,700	kgs	61,070	lbs

Tare Weight Tolerance 2%

3. Materials

3.1 General

The following materials will be used in the construction of containers.

3.2 Part specification

<u>Parts</u>	<u>Materials</u>
1) Door panels Side panels Front panels Top panels Top side rails (upper) Cross members Bottom side rails Floor guide rail Gooseneck tunnel Door sill Door header Door horizontal frames Door vertical frames Rear corner posts (outer) Front top end rail (upper) Front bottom end rail Front corner posts Floor centre rail	Anti-Corrosive Steel: CORTEN A, SPA-H, B480 or equivalent Y.P. : 35 kg/sq. mm T.S. : 49 kg/sq. mm
2) Cone damage protector Lashing fittings	Structural Steel: SS400 Y.P. : 25 kg/sq. mm T.S. : 41 kg/sq. mm
3) Rear corner posts (inner)	Rolled high tensile steel: SM490A or equivalent material Y.P. : 33 kg/sq. mm T.S. : 50 kg/sq. mm
4) Door Locking bars Roof bow	Structural steel round pipe: STK41 Y.P. : 25 kg/sq. mm T.S. : 41 kg/sq. mm
5) Corner Fitting	Casted weldable steel: SCW480 Y.P. : 28 kg/sq. mm T.S. : 49 kg/sq. mm
6) Locking gear cams and keepers	Forged weldable steel: S20C Y.P. : 23 kg/sq. mm T.S. : 44 kg/sq. mm
7) Door hinge pins Door gasket retainer Locking device pins	Stainless steel: SUS304
8) Floor board	Bamboo floor, 21-ply
9) Door gasket Roof gasket	EPDM

* Note: Y.P. --- Yielding Point
T.S. --- Tensile Strength

4. Construction

4.1 General

- 4.1.1 The container will be constructed with steel frames, fully vertical-corrugated steel sides and front wall, horizontal-corrugated steel double doors at rear end, Bamboo flooring, removable roof cover and corner fittings.
- 4.1.2 One gooseneck tunnel , two removable covers and a removable top rail will be provided.
- 4.1.3 All steelwork will be built up by means of automatic and semi-automatic CO₂ gas arc welding (MAG welding). All welds of exterior including the base frames will be continuous welding on both sides except welds of joints for flooring.
- 4.1.4 Interior welds will be intermittent with a minimum bead length of 15mm for every 300mm about.
- 4.1.5 Welds will be even bead and have full penetration without undercut or porosity.
- 4.1.6 Gaps between adjacent components to be welded will not exceed 3mm or the half thickness of the parts being welded which is the smaller.
- 4.1.7 The internal bend radius of the pressed section of the steel will be less than 1.0 time the thickness of the material being pressed.
- 4.1.8 Chloroprene sealant is to be applied at periphery of floor surface and inside unwelded seams, butyl sealant is used to caulk at invisible seam of floor joint area and between door gasket and frame.

4.2 Protrusion

- 4.2.1 The upper faces of the top corner fittings will protrude above the highest level of the roof cover by 6mm.
- 4.2.2 For the containers under empty condition the lower faces of the cross member in their bases including their end transverse members shall be on a plane located at 17mm above the lower faces of the bottom corner fittings except the corner plates.
- 4.2.3 The outside faces of the corner fittings will protrude from the outside faces of the corner posts by minimum 4mm for side structure and 4mm for front end structure.
- 4.2.4 The outside faces of the corner fittings will protrude from side wall by nominal 8mm and from the outside face of the end wall by 8mm.
- 4.2.5 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 base of container will protrude more than 6.0mm below the plane formed by the lower faces of the bottom corner fittings at the time of maximum deflection.

4.3 Corner fittings

The corner fittings will be designed in accordance with ISO 1161 (Amd. 1990) and manufactured at the works approved by classification society.

4.4 Base frame structure

Base frame will be composed of two (2) bottom side rails, a gooseneck tunnel and totally twenty-eight (28) cross members.

4.4.1 Bottom side rail

Each bottom side rail is built of 52x30x155x28x4.5mm thick cold-formed double "Z" section steel made in one piece. The lower flange of the bottom side rail is outward so as to facilitate easy removal of the cross members during repair and of less susceptible corrosion. Reinforcement plates are to be made of 4.0mm thick angle section steels. The angle steels are welded to bottom corner fitting.

4.4.2 Gooseneck tunnel

The gooseneck tunnel consists of 4.0mm thick pressed hat section steel plate, twelve 4.0mm thick pressed channel section bows which are welded to the top plate, one 4.0mm thick enclosed section tunnel rear bolster which is a rectangular hollow section steel or separated into two "C" section parts, and sixteen 4.0mm thick tunnel outriggers. The gooseneck tunnel is designed in accordance with ISO requirements.

4.4.3 Cross member

The cross members are made of pressed channel section steel with a dimension of 45x122 x45x4.0 mm for the normal areas and 75x122x45x4.0mm for the floor butt joints. The cross members are placed fully to withstand floor strength and welded to each bottom side rail. Three (3) pieces of 4.0mm gussets to be fully welded at each inside of floor joint crossmember.

4.5 Flooring

The floor will consist of twelve pieces bamboo floor boards, floor center rail, and self-tapping screws.

4.5.1 Floor

The bamboo floor to be constructed with 28mm thick min.19-ply bamboo boards which is the first three layers on top/bottom the grain should be in longitudinal direction are laid longitudinally on the transverse members and the floor centre rail of 4.0mm thick flat bar painted with internal paint system. The floorboards are tightly secured to each member by self-tapping screws, and all butt joint areas and peripheries of the floorboards are caulked with sealant.

- 1) Wood species : bamboo
- 2) Glue : Phenol-formaldehyde resin.
- 3) Treatment :
 - a) Preservative: MEGANIUM 2000 or others
in accordance with Australian Health Department Regulations.
 - b) Average moisture content will be 12% before installation.

4.5.2 Self-tapping screw

Each floor board is fixed to the transverse members by zinc plated self-tapping screws that are 8.0mm dia. shank x 16mm dia. head x 45mm length, and fastened by four screws per cross member but five screws at joint areas. Screw heads are to be countersunk through about 2mm below the

floor top surface.

4.6 Rear frame structure

The rear frame will be composed of one door sill, two corner posts, one door header and four corner fittings, which will be welded together to make the door-way.

4.6.1 Door sill

The door sill to be made of a 4.5mm thick pressed open section steel is reinforced by four internal gussets at the back of each locking cam keeper location.

The upper face of the door sill has a 10mm slope for better drainage.

A 200 x 75mm section is cut out at each end of the door sill and reinforced by a 200 x 75mm channel steel as a protection against handling equipment damages.

4.6.2 Rear corner post

Each rear corner post of hollow section is fabricated with pressed, 6.0mm thick, steel outer part and 40x113x12mm hot-rolled channel section steel inner part, which are welded continuously together to ensure a maximum width of the door opening and to give a sufficient strength against stacking and racking forces.

Four (4) sets of hinge pin lugs are welded to each rear corner post.

4.6.3 Door header

The swing header is constructed from a lower part of a 6.0mm thick pressed " U " shaped steel pressing with internal stiffener ribs at the location of the back of cam keeper and an upper part of a 4.5mm thick steel pressing rear header plate with angle served as top frame support, they are welded together to form a box section to provide a high rigidity. The removable header is capable of swinging to either side through an arc greater than 90 degrees.

The swing header is supported by two hinges having 22.5 mm dia. stainless steel hinge pin and provided with EPDM rubber gasket to prevent the leakage of the water into the container.

The hinge pins additional a small chain to prevent the pins drop down and even disappears when removable the headers away

4.7 Door

4.7.1 Each container will have double wing doors at rear end frame, and each door will be capable of swinging approximately 270 degrees.

4.7.2 Each door is constructed with 3.0mm thick pressed channel section steel horizontal frames for the top and bottom, 100x50x3.2mm thick rectangular hollow section vertical frames for both post side and center side of door respectively, 2.0mm thick horizontally corrugated steel door panel, which are continuously welded within frames.

4.7.3 Two sets of galvanized "HH-ET " or equivalent model locking assemblies with steel handles are respectively fitted to each door using high tensile zinc plated steel bolts according to TIR requirements. Locking bar retainers are fitted with nylon bushings at the top, bottom and intermediate bracket.

4.7.4 The left-hand door can not be opened without opening the right-hand door when the container is sealed in accordance with TIR requirements.

- 4.7.5 The door hold-back of nylon rope is provided to the centre locking bar on each door and a hook of steel bar is welded to each bottom side rail.
- 4.8.5 Each door is suspended by hinges being provided with stainless steel pins, self-lubricating brass bushings and stainless steel washers, which are placed at the hinge lugs of the rear corner posts.
- 4.7.7 The door gasket to be made of an extruded double lip type (J-C type - vertical and upper are "J", lower is "C") EPDM rubber is installed to the door peripheral frames with stainless steel gasket retainers which must be caulked with butyl sealant before installation of gasket, and fastened by stainless steel rivets at a pitch of 150mm.

4.8 Roof structure

The roof constructed with two sets removable hard-top with overlapping area at center of the container, and each removable hard-top constructed with roof frame, roof panel, top lift device, roof locking mechanisms and seal gasket.

4.8.1 Roof frame

The roof frame will be constructed with two (2) side rails, two (2) end rails and four (4) reinforcement.

Side rail: 100x48x5.3mm channel section

End rail: 100x48x5.3mm channel section

Reinforcement: 80x40x3.0mm square tube

4.8.2 Roof panel

The roof panel of each cover will be constructed by five 2.0 mm thick die-stamp corrugated steel sheets with a certain upwards at the centre of each trough and corrugation. These sheets are butt welded together to form one panel and continuously welded to the roof frame.

4.8.3 Lift rings

Four (4) sets of Top lift devices are welded to each roof panels.

Bar : 20 mm in diameter.

Center distance : 2080 mm

Reinforcement plate : A 3mm thickness plate will be welded under each lifting bar.

4.8.4 Locking mechanism

Five (5) sets of roof locking mechanism are provided on each side wall.

4.8.5 Seal gasket

An EPDM roof gasket is glued inside of roof frame for water tightness.

4.8.6 Adjustable roof bowst

Four(4) adjustable roof bows are hot-dip galvanized tubes $\Phi 34 \times 3.2$ mm, Both end of each adjustable roof bow are suspended by the roof bow sockets which welded to each top side rail.

4.9 Top side rail

Each top side rail is used a square steel pipe and one top support angle as top frame support.
Top side rail: 150 x 100 x 4.0 mm
Top support angle: 4.5 mm thick

4.10 Side wall

The trapezium section side wall is constructed with 2.0mm thick fully vertically continuous corrugated steel panels for the intermediate parts and both end parts which are butt welded together to form one panel and continuously welded to the side rails and corner posts. All overlapped joints between corner posts and side panels and un-welded joints between top/bottom rails and side panels are caulked inside with sealant.

4.11 Front structure

The front end will be composed of one bottom end rail, two corner posts, one front header, four corner fittings and corrugated end wall, which are welded together as a sub-assembly.

4.11.1 Bottom end rail

The front bottom rail consists of two longitudinal end protectors and a square tube on top with flat strips as the wood supports. Two bottom corner protectors are provided adjacent to the bottom casting to prevent damage due to any twist lock misalignment.

4.11.2 Front corner post

Each corner post is made of 6.0mm thick pressed open section steel in a single piece, and designed to give a sufficient strength against stacking and racking forces.

4.11.3 Front header

The front top rail is constructed of 4.5mm thick pressing steel plate, with angle served as top frame support with some ribs, they are welded together to provide a high rigidity.

4.11.4 Front wall

The trapezium section front wall is constructed with 2.0mm thick vertically corrugated steel panels, butt welded together to form one panel, and continuously welded to front end rails and corner posts. All overlapped joints between corner posts and front panels and unwelded joints between top/bottom rails and front panels are caulked inside with sealant.

4.12 Special feature

4.12.1 Customs seal provisions

Customs seal and padlock provisions are made on each locking handle retainer to cover the sealed area in accordance with TIR requirements.

4.13.2 Lashing fittings

Ten (10) lashing hoop rings are welded to each top and bottom side rail at recessed corrugations of side panels but not extruded any cargo space (total 40 rings). Each lashing point is designed to provide a "1,500 kgs pull load in any direction" without any permanent deformation of lashing ring and surrounding area.

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Three (3) lashing rods are welded to each corner post at the position of 150mm higher from the floor and 200 mm lower from the bottom surface of top corner fittings and in the middle between these two rods. Each lashing rod on the corner post is designed to provide a "1,000 kgs pull load in any direction" without any permanent deformation.

4.13.3 Shoring slot

A shoring slot, having a size of 60mm width x 40mm depth is provided on each rear corner post so that 2 1/4" thick battens can be arranged to be able to prevent doors from damage due to shifting cargo.

5. Surface preservation**5.1 Surface preparation**

- 1) All steel surfaces - prior to forming or after - will be fully abrasive shot blasted conforming to Swedish Standard SA2 1/2 to remove all rust, dirt, mill scale and all other foreign materials.
- 2) All door hardware will be hot-dipping zinc galvanized with approximately 75 microns thickness. Locking bolts hot-dipping zinc galvanized approximately 30 microns thickness.
- 3) All fasteners such as self-tapping screws and bolts, nuts, hinges, cam keepers and lashing fittings will be electro-galvanized with approximately 13 microns thickness.

5.2 Coating**5.2.1 The total dry film will be (microns):**

	EXT.	INT.	BASE
1st shop primer	10	10	10
Waterborne Epoxy zinc primer	20	20	20
Waterborne Epoxy middle coat	40		
Waterborne Epoxy top coat		40	
Waterborne Acrylic top coat	40		
Waterborne undercoating			200
Total	110	70	230

Note: The equivalent effect waterborne paint and waterborne undercoating will be applied. The paint system and supplier (inclusive of undercoating) will be submitted to customer's approval in advance before production.

6. **Marking**

6.1 **Arrangement**

The container will be marked in accordance with ISO, CSC and TIR requirements, owner's marking specifications and other required regulations.

6.2 **Materials**

- 1) Decal : - Self-adhesive, high tensile PVC film for seven (7) years guarantee without peeling off, tenting or colour fading.
- 2) Certification plate: 18-8 type stainless steel plates to be chemically etched by acid and treated by enamel.

6.3 **Specifications**

- 1) Identification plates such as consolidated data plate consisting of CSC and TIR will be riveted on the door permanently by stainless steel rivets. The entire periphery except the bottom side will be caulked with sealant.
- 2) The owner's and manufacturer's serial numbers will be respectively stamped on top plane of rear lower left and right corner fittings and stamped into the inside of right rear corner post at eye level.

7. Testing and Inspections

7.1 Testing

7.1.1 Prototype testing

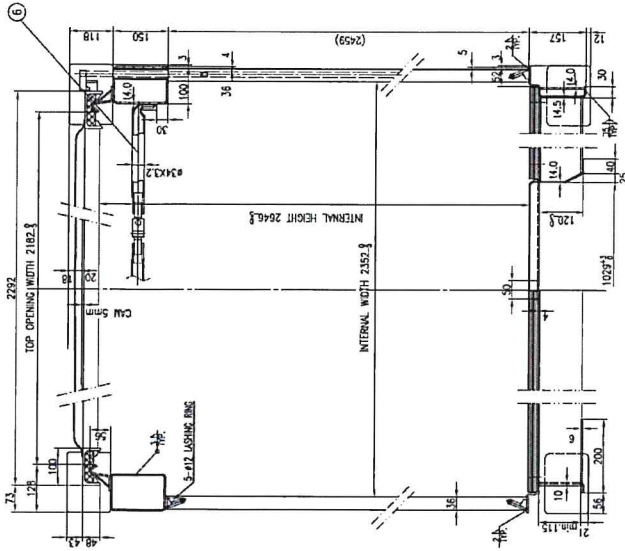
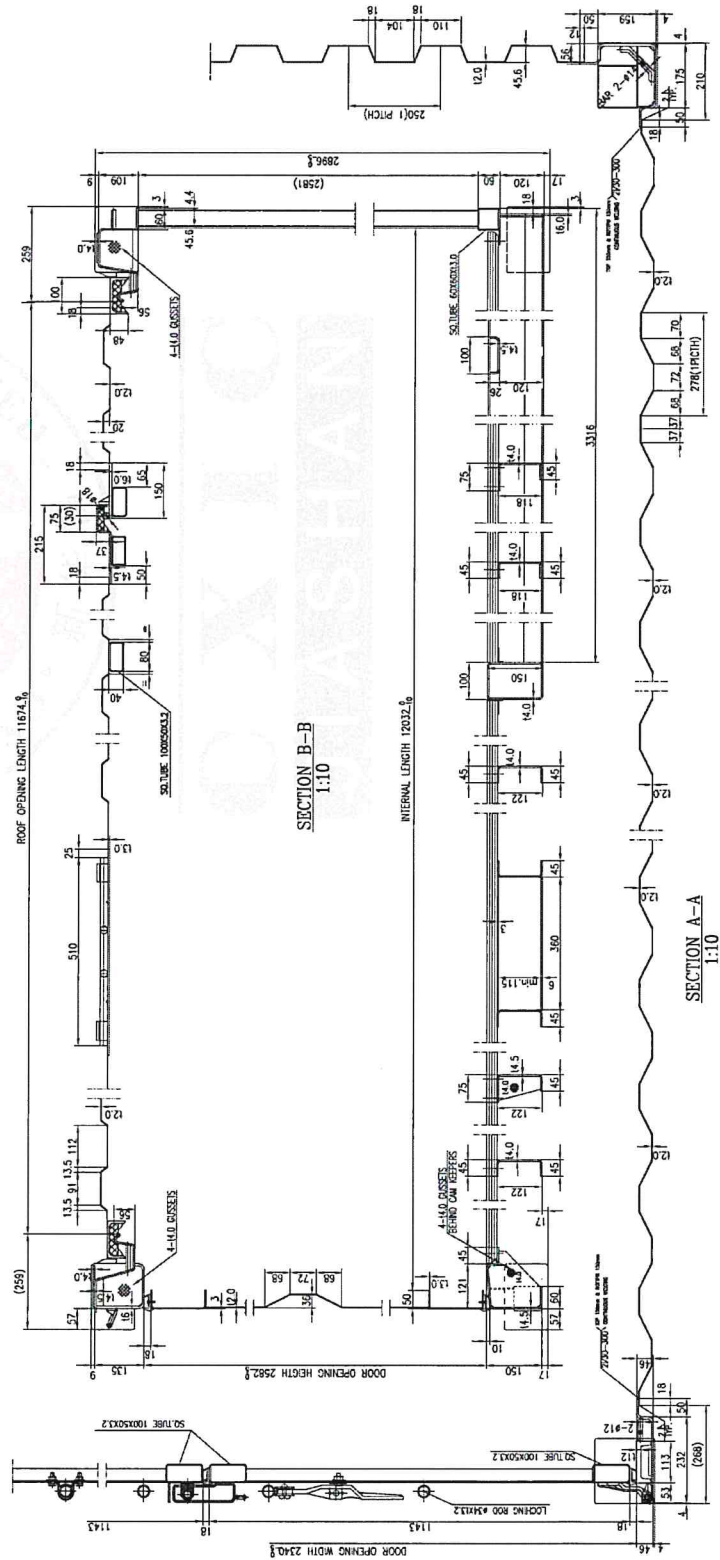
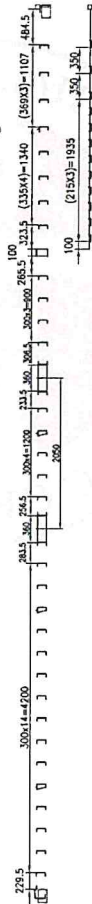
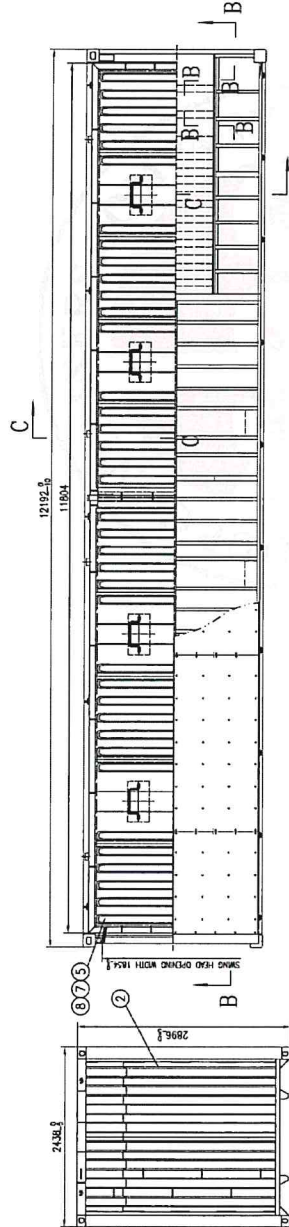
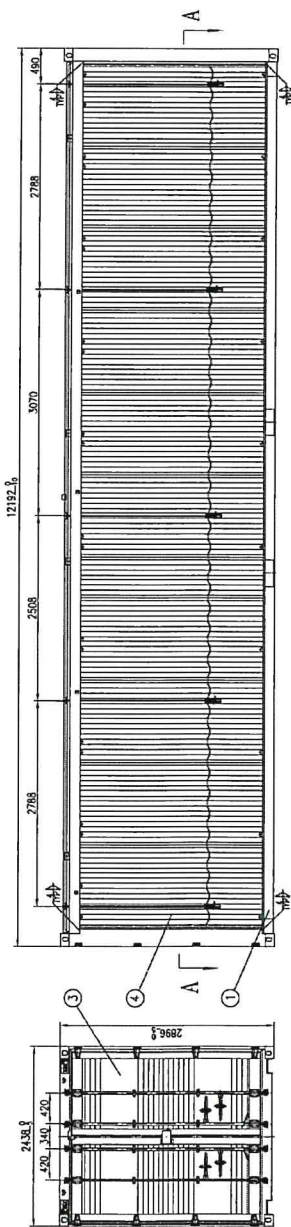
The prototype container to be manufactured in accordance with this specification will be tested by manufacturer under the supervision of classification society.

	<u>Test items & loads</u>	<u>Test methods</u>
A)	Stacking Internal load : 1.8R-T Test load: 97,200kg/post	Hydraulic cylinder load will be applied to each corner post through top corner fittings. Offset: 25.4 mm lateral 38.0 mm longitudinal
B)	Lifting (from top corner fittings) Internal load : 2R-T	Lifting vertically. Time duration : 5 minutes
C)	Lifting (from bottom corner fittings) Internal load : 2R-T	Lifting 30 degree to the horizontal. Time duration : 5 minutes
D)	Restraint (longitudinal) Internal load : R-T Test load : 2R	Hydraulic cylinder load will be applied to the bottom side rails.
E)	Lifting (for forklift pockets) 0.625R-T	Bar length : 1,828mm Bar width : 200mm Time duration : 5 minutes
F)	Floor strength Test load : 5,460 kgs (12,040 lbs)	Use of a special truck. Total contact area: 284 sq. cm Wheel width : 180 mm Wheel centre : 760 mm
G)	Wall strength (front) Test load : 0.4(R-T)=0.4P	Compressed air bag will be used.
H)	Wall strength (side) Test load : 0.6(R-T)=0.6P	Compressed air bag will be used on one side only.
I)	Wall strength (door) Test load : 0.4(R-T)=0.4P	Same as front wall strength test.
J)	Roof strength(weakest part) Test load : 300kg	Applied area will be 600x300mm longitudinal and transverse.
K)	Racking (transverse) Test load : 15,240 kgs 150,000 newtons	Hydraulic cylinder load will be applied to the header rail through top corner fittings.
P)	Racking (longitudinal) Test load : 7,620 kgs	Hydraulic cylinder load will be applied to the top side rail through top corner fitting on one side

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		only. Two times for pulling and pushing.
L)	Operation of door	After completion of test, the operation of doors, locks, hinges, etc. will be checked.
M)	Dimensions and weight	After completion of test, the dimensions and weight will be checked.
N)	Weatherproofness	Inside dia. of nozzle : 12.5mm Distance : 1.5 m Speed : 100 mm/sec. Pressure : 1 kg/sq. cm

* Note: **R** Maximum Gross Weight
T Tare Weight
P Maximum Payload

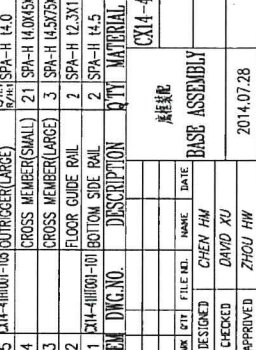
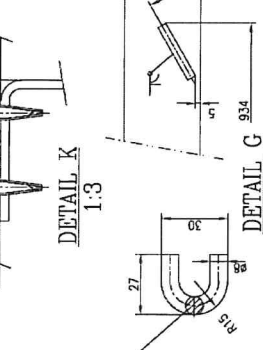
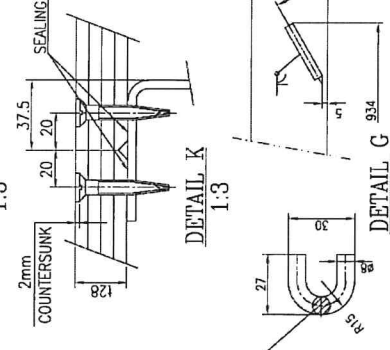
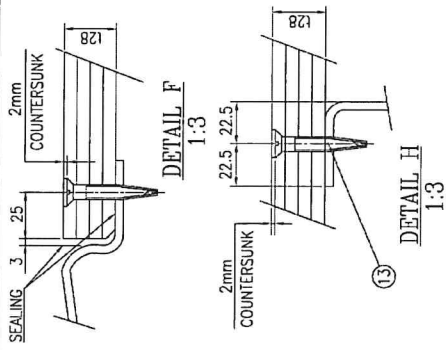


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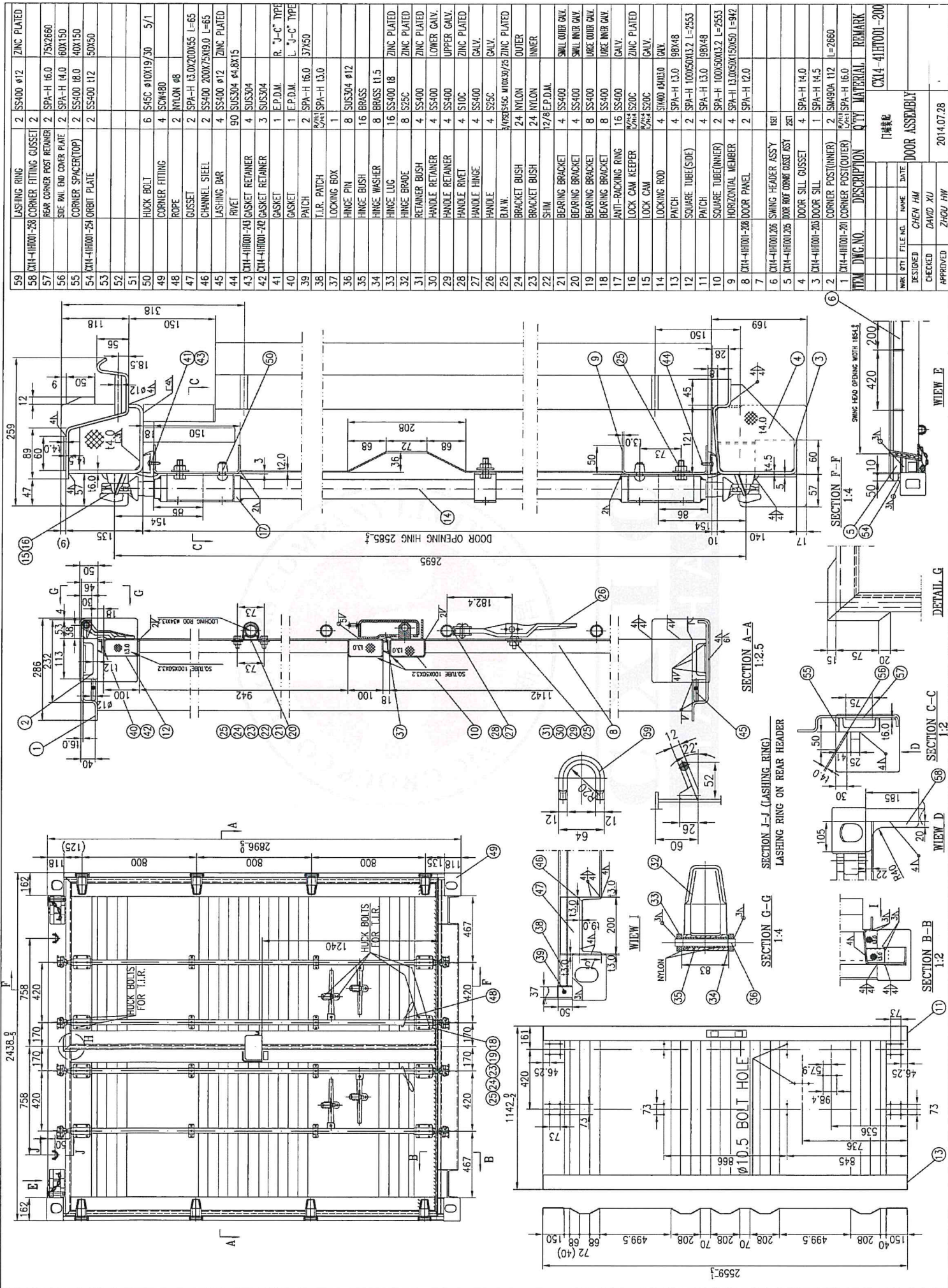
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SECTION A-A
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EXTERNAL	LENGTH	12.192	40'	-16.0mm	-16.0"
	WIDTH	2.438	8'	0.0mm	0"
	HEIGHT	2.896	9'-6"	0.0mm	0"
INTERNAL	LENGTH	12.032	39'-5.4564"	-3/16"	-3/16"
	WIDTH	2.352	7'-8 19/32"	0.0mm	0"
	HEIGHT	2.646	8'-8 11/64"	0.0mm	0"
DOOR OPENING	WIDTH	2.240	7'-8 1/8"	-3/16"	-3/16"
	HEIGHT	2.986	8'-5 49/64"	3/16"	3/16"
	WIDTH OVER CATCH TOP FLANGE	2.182	7'-1 63/64"	-3/16"	-3/16"
INTERNAL CUBIC CAPACITY	WIDTH	11.674	38'-3.3964"	3/8"	3/8"
	CU m	75	2,650	CuIt	
	MAXIMUM GROSS WEIGHT	32,500	kg	71,650	lb
TARE WEIGHT	MAXIMUM GROSS WEIGHT	4,800	kg	10,580	lb
	MAXIMUM PAYLOAD	27,700	kg	61,070	lb
CLASSIFICATION		DIMENSION			
		FRONT ASSEMBLY	WALL	UNIT	
CX14-41HT001-500		FRONT ASSEMBLY			
CX14-41HT001-400		SIDE ASSEMBLY			
CX14-41HT001-300		ROOF ASSEMBLY			
CX14-41HT001-200		DOOR ASSEMBLY			
CX14-41HT001-100		BASE ASSEMBLY			
DRAWING NO.	DESCRIPTION	REMARK			
		CX14-41HT001-000			
MMR. GTH	FILE NO.	NAME	DATE	总 装 配 GENERAL ASSEMBLY	
DESIGNED	ZHONG SL				
CHECKED	DAVID XU				
APPROVED	ZHOU HW				
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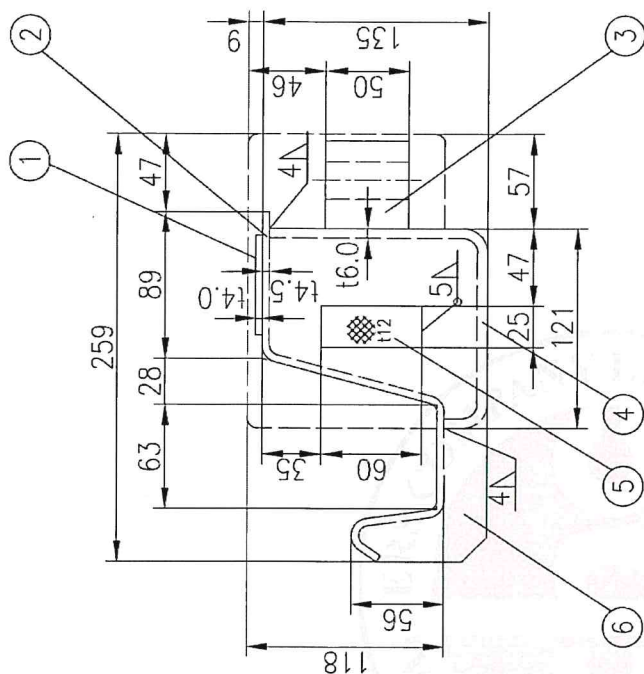
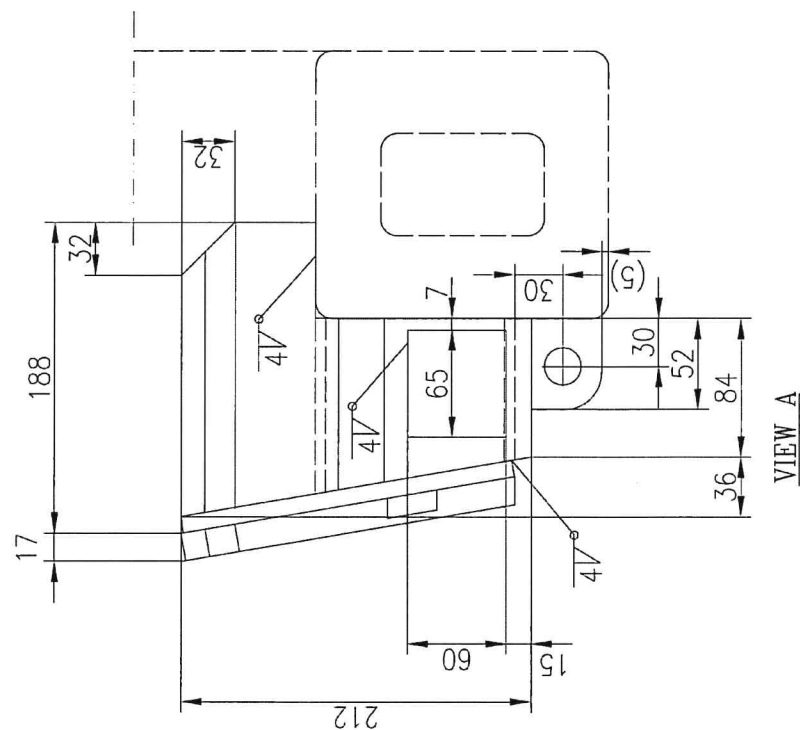


22	FORNUT PROCKET BOTTOM PLATE	4	SPA-H 16.0	200x372
21	FORNUT PROCKET TOP PLATE	2	SPA-H 13.0	368x2286
20	FORNUT PROCKET SIDE RAIL	4	SPA-H 14.0	
19	SUPFER-CROSS MEMBER(L)	9	SPA-H 14.0	
18	LASHING RING	20	SS5400 #12	ZINC PLATED
17	DOOR HOOK HOLDER	2	SS400 #8	ZINC PLATED
16	WOOD3	4	ASTM/A36/SA1008	PLYWOOD
15	WOOD2	6	ASTM/A36/SA1008	PLYWOOD
14	WOOD1	2	ASTM/A36/SA1008	PLYWOOD
13	SELF-TAPPING SCREW	346	S20C 48X45	ZINC PLATED
12	B.S.R. REINFORCEMENT	4	SPA-H 14.0	200X170
11	FLAT STEEL	1	SPA-H 14.0X50X6580	
10	TUNNEL BOW	12	SPA-H 14.5	26X100X5 = 1029
9	XTH-4H1001-109	1	SPA-H 14.0	
8	ANGLE STEEL	2/1	SPA-H 130X1340	-6/4/2266
7	TUNNEL BOLSTER	2	SPA-H 14.0	
6	XTH-4H1001-106	2	SPA-H 14.0	
5	XTH-4H1001-105	2	SPA-H 14.0	
4	CROSS MEMBER(SMALL)	21	SPA-H 14.0X5X12245	L=2266
3	CROSS MEMBER(LARGE)	3	SPA-H 14.5X73X12245	L=2266
2	FLOOR GUIDE RAIL	2	SPA-H 12.3X15X25	L=3255
1	XTH-4H1001-101	2	SPA-H 14.5	
ITEM DWG.NO.		QTY		REMARK
				材料表
				CX14-41HT001-100
MARK	QTY	FILE NO.	NAME	DATE
DESIGNED			CHEN HM	
CHECKED			DAVID XU	
APPROVED			ZHOU HW	2014.07.28
BASE ASSEMBLY				

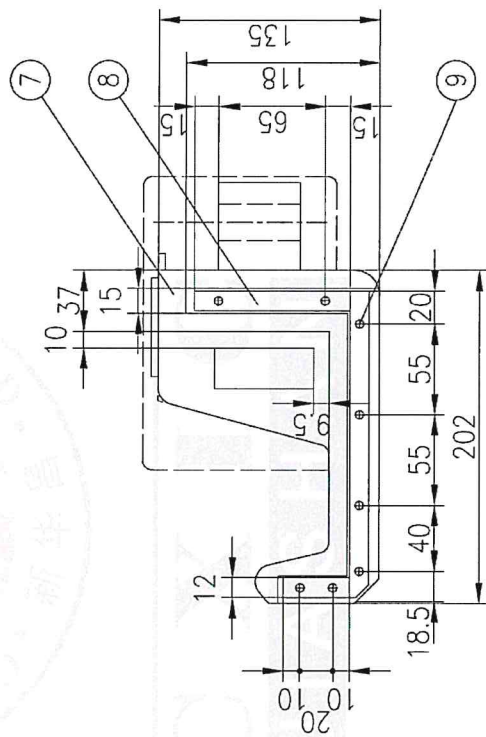


59	LASTING RING	2	SS400 #12	ZINC PLATED
58	CMH-4H1001-28 CORNER FITTING GUSSET	2		
57	REAR CORNER POST RETAINER	2	SPA-H 16.0	75X2660
56	SIDE END COVER PLATE	2	SPA-H 14.0	60X150
55	CORNER SPACER(TOP)	2	SS400 18.0	40X150
54	CMH-4H1001-24 DIBIT PLATE	2	SS400 112	50X50
53				
52				
51	HUCK BOLT	6	S45C #10X19/30	5/1
49	CORNER FITTING	4	SCW480	
48	ROPE	2	NYLON #8	
47	GUSSET	2	SPA-H 13.0X200X55 L=65	
46	CHANNEL STEEL	2	SS400 200X75X9.0 L=85	
45	LASHING BAR	4	SS400 #12	ZINC PLATED
44	RIVET	90	SUS304 #4.8X15	
43	CMH-4H1001-20 GASKET RETAINER	4	SUS304	
42	CMH-4H1001-20 GASKET RETAINER	3	SUS304	
41	GASKET	1	EPDM	R "J-C" TYPE
40	GASKET	1	EPDM	L "J-C" TYPE
39	PATCH	2	SPA-H 16.0	37X50
38	T.L.R. PATCH	2	SPA-H 13.0	
37	LOCKING BOX	1		
36	HINGE PIN	8	SUS304 #12	
35	HINGE BUSH	16	BRASS	
34	HINGE WASHER	8	BRASS 11.5	
33	HINGE LUG	16	SS400 18	ZINC PLATED
32	HINGE BRACE	8	S25C	
31	RETAINER BUSH	4	SS400	ZINC PLATED
30	HANDLE RETAINER	4	SS400	LOWER GALV.
29	HANDLE RETAINER	4	SS400	UPPER GALV.
28	HANDLE RIVET	4	S10C	ZINC PLATED
27	HANDLE HINGE	4	SS400	GALV.
26	HANDLE	4	S25C	
25	B.N.W.	3	40X25X40 MIRA30/25	ZINC PLATED
24	BRACKET BUSH	24	NYLON	OUTER
23	BRACKET BUSH	24	NYLON	INNER
22	SHIM	12/8/E P.D.M.		
21	BEARING BRACKET	4	SS400	SMALL OUTER Q.W.
20	BEARING BRACKET	4	SS400	SMALL INNER Q.W.
19	BEARING BRACKET	8	SS400	LARGE OUTER Q.W.
18	BEARING BRACKET	8	SS400	LARGE INNER Q.W.
17	ANTI-RACKING RING	16	SS400	GALV.
16	LOCK CAM KEEPER	2	S25C	ZINC PLATED
15	LOCK CAM	2	S25C	GALV.
14	LOCKING ROD	4	S1040 #10X10	GALV.
13	PATCH	4	SPA-H 13.0	98X48
12	SQUARE TUBE(SIDE)	2	SPA-H 100X50X1.2 L=253	
11	PATCH	4	SPA-H 13.0	98X48
10	SQUARE TUBE(INNER)	2	SPA-H 100X50X1.2 L=253	
9	HORIZONTAL MEMBER	4	SPA-H 13.0X50X150X50 L=942	
8	CMH-4H1001-28 DOOR PANEL	2	SPA-H 12.0	
7				
6	CMH-4H1001-26 SWING HEADER ASS'Y	1		
5	CMH-4H1001-26 DOOR BOX CORNER ASS'Y	2		
4	DOOR SILL GUSSET	4	SPA-H 14.0	
3	CMH-4H1001-20 DOOR SILL	1	SPA-H 14.5	
2	CORNER POST(OUTER)	2	SM490A 112	L=2660
1	CMH-4H1001-20 CORNER POST(OUTER)	2	SPA-H 16.0	

ITEM	DWG NO.	DESCRIPTION	QTY	MATERIAL	REMARK
1	CMH-4H1001-20	CORNER POST(OUTER)	2	SM490A 112	
2	CMH-4H1001-20	CORNER POST(OUTER)	2	SPA-H 16.0	
3	CMH-4H1001-20	DOOR SILL	1	SPA-H 14.5	
4	CMH-4H1001-26	DOOR BOX CORNER ASS'Y	2		
5	CMH-4H1001-26	DOOR BOX CORNER ASS'Y	2		
6	CMH-4H1001-26	SWING HEADER ASS'Y	1		
7	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
8	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
9	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
10	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
11	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
12	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
13	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
14	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
15	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
16	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
17	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
18	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
19	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
20	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
21	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
22	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
23	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
24	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
25	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
26	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
27	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
28	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
29	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
30	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
31	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
32	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
33	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
34	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
35	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
36	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
37	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
38	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
39	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
40	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
41	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
42	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
43	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
44	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
45	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
46	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
47	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
48	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
49	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
50	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
51	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
52	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
53	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
54	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
55	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
56	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
57	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
58	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	
59	CMH-4H1001-28	DOOR PANEL	2	SPA-H 12.0	



VIEW B
(安装胶条前)

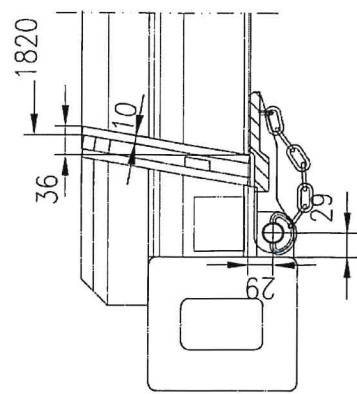


VIEW B

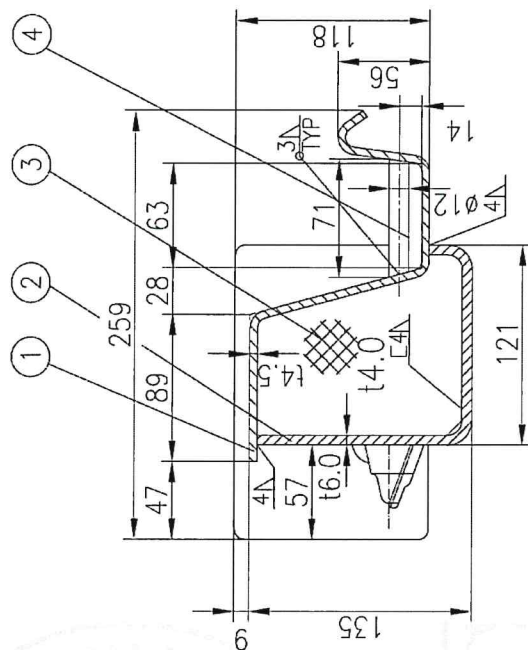
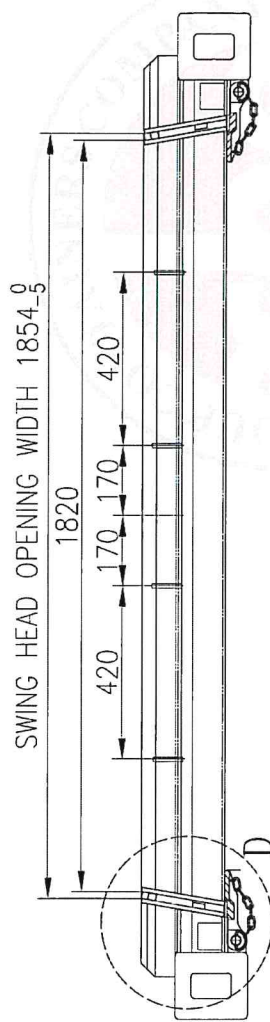
注意:

1. 右边门框矩角如图所示;
2. 左边门框矩角与之对称;
3. 所有始凸出、尖端的顶打扁调整。

[illegible]

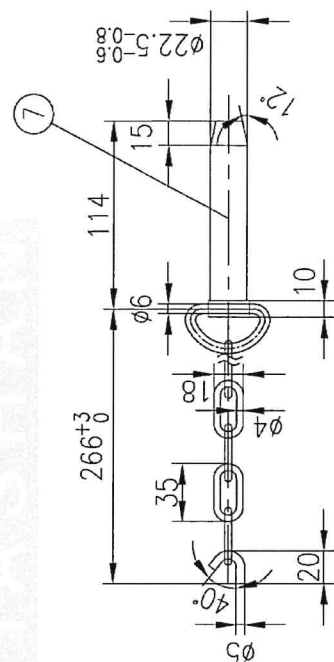


DETAIL D

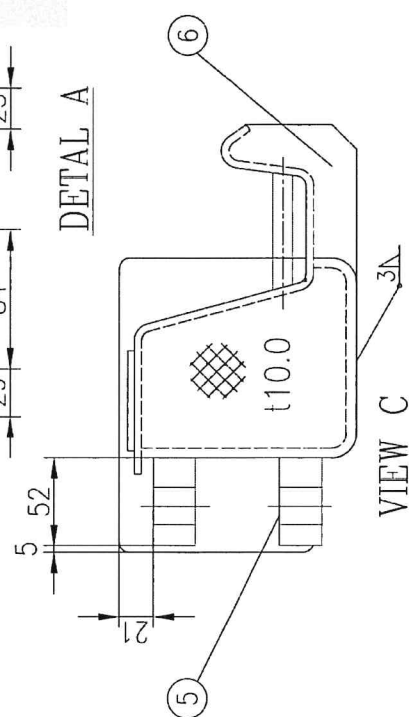


SECTION B-B

1:4



DETAIL OF PIN CHAIN



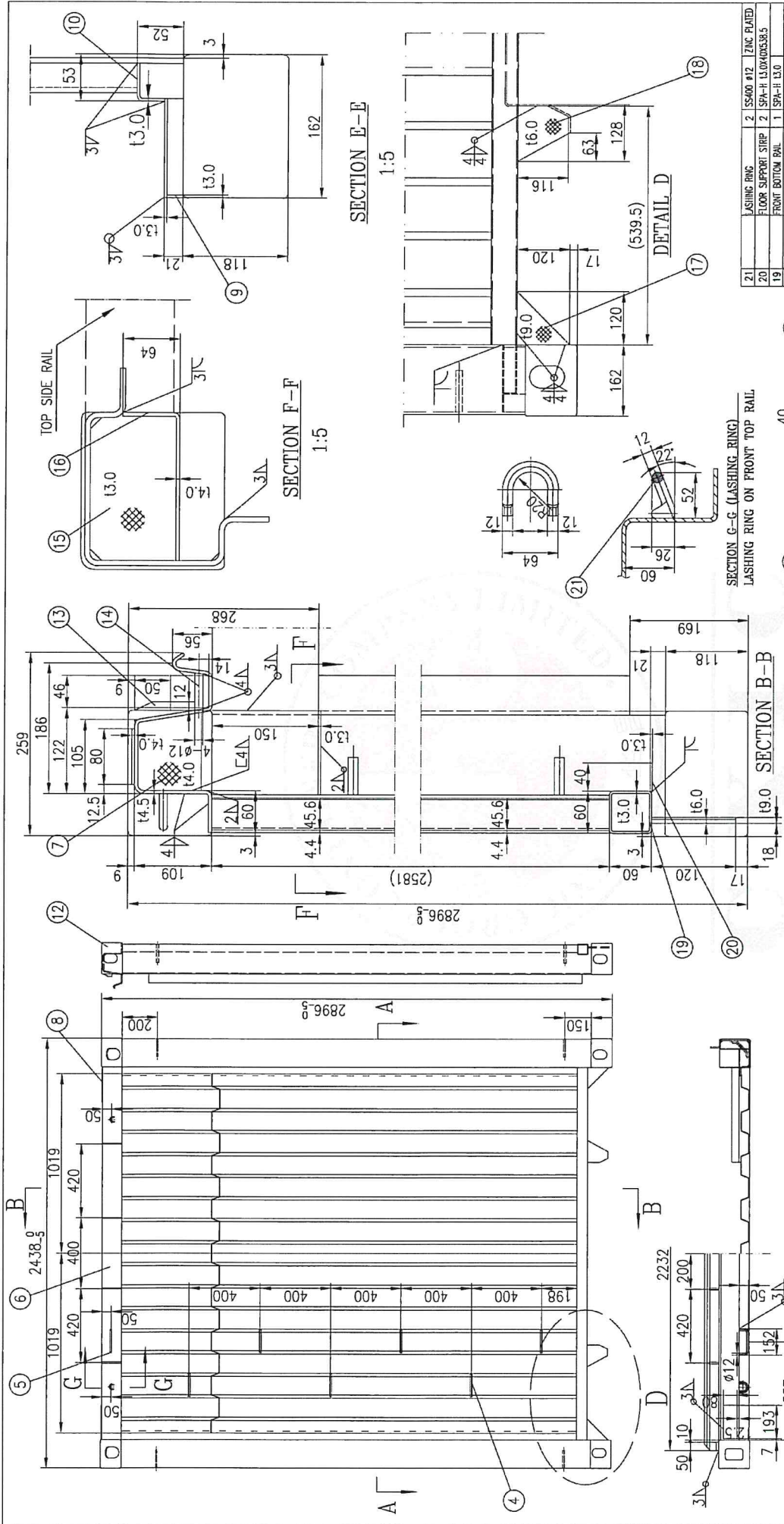
VIEW C



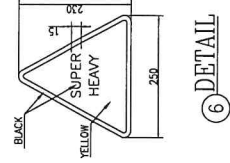
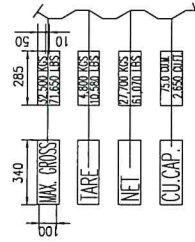
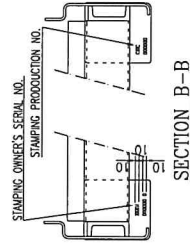
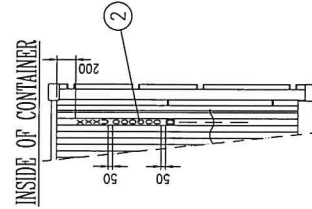
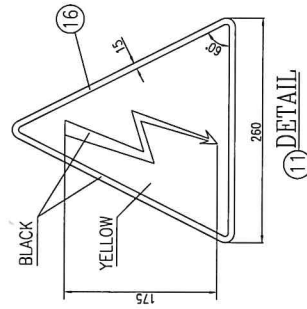
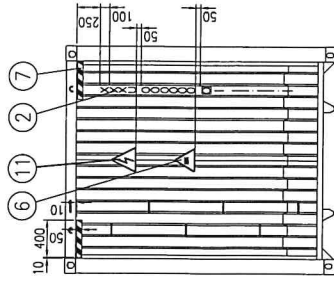
DETAIL A

[illegible]

								活动门楣架起
MAX	QTY	FILE NO.	NAME	DATE				
DESIGNED				CHEN HM				
CHECKED				DAVID XU				
APPROVED				ZHOLI HW				
SWING HEADER ASSY								2014.07.28



21	USING RING	2	SS400 #12	ZINC PLATED
20	FLOOR SUPPORT STRIP	2	SPA-H 110X400X3.5	
19	FRONT BOTTOM RAIL	1	SPA-H 13.0	
18	LOCKING RING END PLATE	2	SPA-H 16.0	
17	BOTTOM CORNER PROTECTOR	2	SS400 #10	120X120
16	TOP INNER POST	2	SPA-H #10	84X175 L=150
15	CLOSING PLATE	2	SPA-H 13.0	97X164
14	OUT-UTM01-4H FRONT HEADR BAR	4	SS400 #12	L=52
13	OUT-UTM01-2H CORNER PLATE	2	SS400 #12	50X50
12	CORNER FITTING	4	SS400	
11	LASHING BAR	4	SS400 #14	ZINC PLATED
10	BOTTOM CORNER STIFFENER	2	SPA-H 13.0	
9	U.L.R. PATCH	2	SPA-H 13.0	
8	CORNER GUSSET	2	SPA-H 14.0	80X193
7	OUT-UTM01-5H CORNER GUSSET	4	SPA-H 14.0	
6	OUT-UTM01-5H FRONT TOP RAIL	1	SPA-H #15	L=204
5	LADDER BAR A	1	SS400 #12	L=130
4	LADDER BAR B	6	SS400 #12	L=130
3	OUT-UTM01-5H FRONT PANEL	2	SPA-H 13.0	1019X281
2	BOTTOM CORNER GUSSET	2	SPA-H 13.0	
1	OUT-UTM01-4H FRONT CORNER POST	2	SPA-H 16.0	
<div> <div> <div>FILE NO.</div> <div>DATE</div> </div> <div> <div>DESIGNED</div> <div>APPROVED</div> </div> <div> <div>CHEN HW</div> <div>DAVID XU</div> </div> <div> <div>2014-07-28</div> </div> </div> <div> <div> <div>DESCRIPTION</div> <div>QTY</div> <div>MATERIAL</div> <div>REMARK</div> </div> <div> <div>OUT-UTM01-5H</div> <div>2</div> <div>SPA-H 13.0</div> <div></div> </div> </div>				



11		ELECTRICAL DANGER MARK	1	DECAL	BLACK ON YELLOW
10	X14	CIRC RING	1	DECAL	#100
9	X10	BEND MARK	7	SUS304	#418
8	X14-H1001-700	CONSOLIDATED DATA PLATE	1	SUS304	10.6
7	50A047/350	WARNING MARK	10/2	DECAL	BLACK ON YELLOW
6		SUPPLY FLEW MARK	4	DECAL	BLACK ON YELLOW
5		CLASS EMBLEM	1	DECAL	
4		MEDICAL & CAPACITY MARK	1	DECAL	WHITE/GLOSS OUT
3		SIZE TYPE CODE	3	DECAL	WHITE/GLOSS OUT
2		OWNER'S CODE SERIAL NO.	4	DECAL	WHITE/GLOSS OUT
1		OWNER'S CODE SERIAL NO.	31	DECAL	WHITE/GLOSS OUT
ITEM	DWG.NO.	DESCRIPTION	QTY	MATERIAL	REMARK
					CX14-41H1001-700
MARK QTY	FILE NO.	NAME	DATE		
DESIGNED	ZHONG SL				
CHECKED	KUANG YK				
APPROVED	DAVID XU				
					2019.07.31

200	93	93	7	7	118	<p>APPROVED FOR TRANSPORT R5 UNDER CUSTOMS SEAL</p> <p>MANUFACTURER'S NO. OF THE CONTAINER</p> <p>TYPE</p> <p>TIMBER COMPONENT TREATMENT</p> <p>MANUFACTURED BY: XXXXXX XINHUA CHANG INTERNATIONAL CONTAINERS CO., LTD. CHINA</p> <p>DATE OF ISSUE</p> <p>History Container Trading GmbH D-60529 Frankfurt www.historycontainer.de</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>
200	93	93	7	7	118	<p>APPROVED FOR TRANSPORT R5 UNDER CUSTOMS SEAL</p> <p>MANUFACTURER'S NO. OF THE CONTAINER</p> <p>TYPE</p> <p>TIMBER COMPONENT TREATMENT</p> <p>MANUFACTURED BY: XXXXXX XINHUA CHANG INTERNATIONAL CONTAINERS CO., LTD. CHINA</p> <p>DATE OF ISSUE</p> <p>History Container Trading GmbH D-60529 Frankfurt www.historycontainer.de</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>	<p>100</p> <p>100</p>

⑧ DETAIL

DETAIL

④ DETAIL

ES _____

[illegible]

DESIGNED	ZHONF SL	MARKING DRAWING
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CHECKED	KUANG YK	DATE
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CHECKED	KUANG YK	DATE
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