

UNITEAM	CB3H/A07 PRS.02.0	Page. PAGE1/15
----------------	------------------------------------	-------------------

TECHNICAL SPECIFICATION

**20' SPECIAL EXPANDABLE
HOOK LIFT CONTAINER“3 in1”
WITH FLAT FLOOR**

CB3H/A07 type

DATE OF ISSUE

: 06 th JUNE 2007

UNITEAM	CB3H/A07 PRS.02.0	Page. 2/11
----------------	------------------------------------	------------

1. GENERAL REQUIREMENTS.

1.1. RANGE OF USE.

The all purpose 1CC container, according to ISO-668 standard is designed for the transport of unit loads using water, railway and road transportation means and a combination of them. It is excluded, to transport the loads which may be destroy containers painting and floor.

1.2. REGULATIONS AND REQUIREMENTS.

ISO 668, ISO1496-1 Standards
STANAG 2413 Standard
DIN 30722 Standard

1.3. TESTS.

1.3.1. Tests conforming to ISO-1496/1 standard with **R=7000 kg..**

- lifting test at the top corner fittings with 2R,
- lifting test at the bottom corner fittings with 2R (45°),
- fork lift pocket test with 1,6R ,
- stacking test with /corner post,
- tranverse racking test,
- longitudinal racking test,
- restraint test,
- roof strength test,
- weatherproofness test,
- front wall test with 0 kg,
- end wall test with 0 kg,
- floor test with 0 kg,
- testing of moving box 3 with load 1500kg.

2. DETAILED SPECIFICATION.

2.1. DIMENSIONS AND WEIGHTS.

MEASURAND		VALUE
External dimensions [mm]	length	6058
	width	2438
	height	2591
Internal dimensions [mm]	length	4400
	width	1900
	height	1760
Door opening Dimensions [mm]	width	1050, 800
	height	1940, 1670
Loading capacity [m3]	-	ca.14,7m3
Mass [kg]	Gross	7000
	Net	2400
	Tare	4600
		±5%

Rem : Deviation of basic dimension it have been defined on drg. no. [CA3H/A07.01.0](#)

2.2. GENERAL CONSTRUCTION.

Container consists of 3 boxes:

Main box 1,

Middle box 2,

Small box 3.

2.3 DESIGN OF BOX 1.

2.3.1 DESIGN OF LOWER FRAME.

2.3.1.1 Side longitudinals.

a) Form - rectangular tube of 120x100x5.

b) Material - steel **S355J0H**

2.3.1.2. Middle longitudinals.

a) Form - hot rolled profile IPE 160 welded with **plates** 30 mm thick.

b) Material - steel St3S

2.3.1..3. Locking catch.

a) Form - flat plate of 50 mm thick .

b) Material - steel 18G2A

2.3.1.4. Roller.

a) Form - rod Ø 114 mm.

b) Material - steel St3S

2.3.1.5. Hook (on the middle longitudinals)

a) Form - flat plate 20 mm thick.

b) Material - steel St3SY

2.3.1.6. Cross-bars.

- a) Form - channels bend of 4 mm thick sheets.
- b) Material - steel 18G2A

2.3.1.7. Fork pockets.

- a) Quantity - 2,
- b) Form - cold bend profile of **6 mm** thick sheets (holes in the middle longitudinals)
- c) Material - steel **St3SY**

2.3.2 DESIGN OF FRONT WALL WITH PERSONAL DOOR

- a) Form - 50 mm thick sheet panels.
- b) Material - **stainless steel plate 0,5mm thick / izolacja PU/ stainless steel plate 0,5mm thick.**

2.3.3 DESIGN OF FRONT WALL WITH HOOK.

- a) Form - 50 mm thick sheet - panels
- b) Material - **stainless steel plate 0,5mm thick / izolacja PU/ stainless steel plate 0,5mm thick.**

2.3.4. ROOF DESIGN.

- a) Form - roof made of 75 mm thick roof panel and 80 x 60 x 6 angle bar
- b) Material - **PP3/Alu (alu 0,8mm thick/insulationPU/laminate)** , 6082 of angle bar.

2.3.5. FLOOR DESIGN.

- a) The height of floor surface from the lower surface of corner fittings - **ca. 363 mm.**
- b) Material – panels: 80 mm thick and 50mm thick, impregnated plywood 15mm thick.
- c) Floor sealing - the gaps between the panel and the steel work of the underframe sealed with a sealing compound. Inside of container sealed with sealing compound.

2.3.6. DESIGN OF THE PERSONAL DOOR.

Door frame.

- a) The door frame is made of Metra NC68
- b) Material - Alu.

Gaskets.

- a) Form - specially profiled,
- b) Material - special neoprene rubber (EPDM)

The doors may be opened by the angle of ca. 160° .

2.3.8. EQUIPMENT.**2.3.8.1. Guide.**

- a) Form: There are 4 sets of movable guides (L 80 x 80 x 6) for supporting of boxes 2 and 3 in disassembled position. Guides is equipped with:
 - vertical stiffeners
 - stiffeners after opening of guide,

- guides has a safety devices (in folded position) before incidental opening during the transport of container.
- b) Material: - aluminium 6082 , steel 40H – pins, 18G2A – holder

2.4. DESIGN OF BOX 2.

2.4.1. DESIGN OF LOWER FRAME.

2.4.1.1. Lower longitudinal - 1.

- a) Form - angle bar 80 x 80 x 8 mm welded with the angle bars of 4 mm thick,
- b) Material - alu 6082.
- c) Quantity - 1 set.

2.4.1.2. Lower longitudinal - 2.

- a) Form - welded with the angle bar 80x50x6, cold-bent c-profiles 4mm thick and palte 4mm thick
- b) Material - alu 6082.
- c) Quantity - 1 set.

2.4.1.3. Cross-bars.

- a) Form - plate 10,5 mm thick welded with the angle bars of 4 mm thick,
- b) Material - alu 6082
- c) Quantity - 5 sets.

2.4.2. DESIGN OF FRONT WALL.

- a) Form - 50 mm thick sheet panels.
- b) Material - stainless steel plate 0,5mm thick / izolacja PU/ stainless steel plate 0,5mm thick.

2.4.3. DESIGN OF SIDE WALL.

- a) Form - 50 mm thick panels
- b) Material - stainless steel plate 0,5mm thick / izolacja PU/ stainless steel plate 0,5mm thick.

2.4.4. DESIGN OF ROOF.

- a) Form - roof made of 50 mm thick sheet panels
- b) Material - PP3 (lamine 2mm thick/insulation PU/lamine 2mm thick)

2.4.5. FLOOR DESIGN.

- a) The height of floor surface from the lower surface of corner fittings - **ca. 363 mm.**
- b) Material - 40 mm thick, panel and 15 mm thick, impregnated plywood.
- c) Floor sealing - the gaps between the plywood plates and the steel work of the underframe sealed with a sealing compound. Inside of container sealed with sealing compound.

2.4.7. EQUIPMENT.

Gaskets.

- a) Form - specially profiled,
- b) Material - special neoprene rubber (EPDM) of $65^{\circ}\pm 5^{\circ}$ Shore hardness,

External and internal rollers.

There are 8 pcs (2+6) of rollers with needle bearings, placed on the end of bottom longitudinals.

Clamp device.

There are 2 pcs of clamp device, placed on the inside post.

Screwed locks.

There are 4 pcs of screwed locks placed on the external part of side post

2.5. DESIGN OF BOX 3.

2.5.1. DESIGN OF LOWER FRAME.

2.5.1.1. Lower longitudinal - 1.

- a) Form - angle bar 80 x 80 x 8 mm welded with the angle bar of 4 mm
- b) Material - alu 6082
- c) Quantity - 1 set.

2.5.1.2. Lower longitudinal - 2.

- a) Form - welded with the angle bar 80x50x6, cold-bent c-profiles 4mm thick and palte 4mm thick
- b) Material - alu 6082.
- c) Quantity - 1 set.

2.5.1.3. Cross-bars.

- a) Form - open, cold-bent profile 4 mm thick
- b) Material - alu 6082
- c) Quantity - 3 pcs.

2.5.2. DESIGN OF FRONT WALL

- a) Form - 50 mm thick sheet panel
- b) Material - stainless steel plate 0,5mm thick / izolacja PU/ stainless steel plate 0,5mm thick.

2.5.4. DESIGN OF SIDE WALL WITH DOOR.

- a) Form - 50 mm thick sheet panels
- b) Material - stainless steel plate 0,5mm thick / izolacja PU/ stainless steel plate 0,5mm thick.

Personal door.

Door frame.

- a) The door frame is made of Metra NC68
- b) Material - Alu.

Gaskets.

- a) Form - specially profiled,
- b) Material - special neoprene rubber (EPDM)

Hinges.

- a) Quantity - 3 pieces,

The doors may be opened by the angle of ca. 160°

2.5.5. DESIGN OF ROOF.

- a) Form - roof made of 50 mm thick panels
- b) Material - PP3 (laminate 2mm thick/insulation PU/laminate 2mm thick).

2.5.6. FLOOR DESIGN.

- a) The height of floor surface from the lower surface of corner fittings - **ca. 363 mm.**
- b) Material - 40 mm thick, panel and 15 mm thick, impregnated plywood.
- c) Floor sealing - the gaps between the plywood plates and the steel work of the underframe sealed with a sealing compound. Inside of container sealed with sealing compound.

2.5.8. EQUIPMENT.

Gaskets.

- a) Form - specially profiled,
- b) Material - special neoprene rubber (EPDM)

External and internal rollers.

There are 8 pcs (2+6) of rollers with needle bearings, placed on the end of bottom im longitudinals.

Clamp device.

There are 2 pcs of clamp device, placed on the inside post.

Screwed locks.

There are 4 pcs of screwed locks placed on the external part of side post.