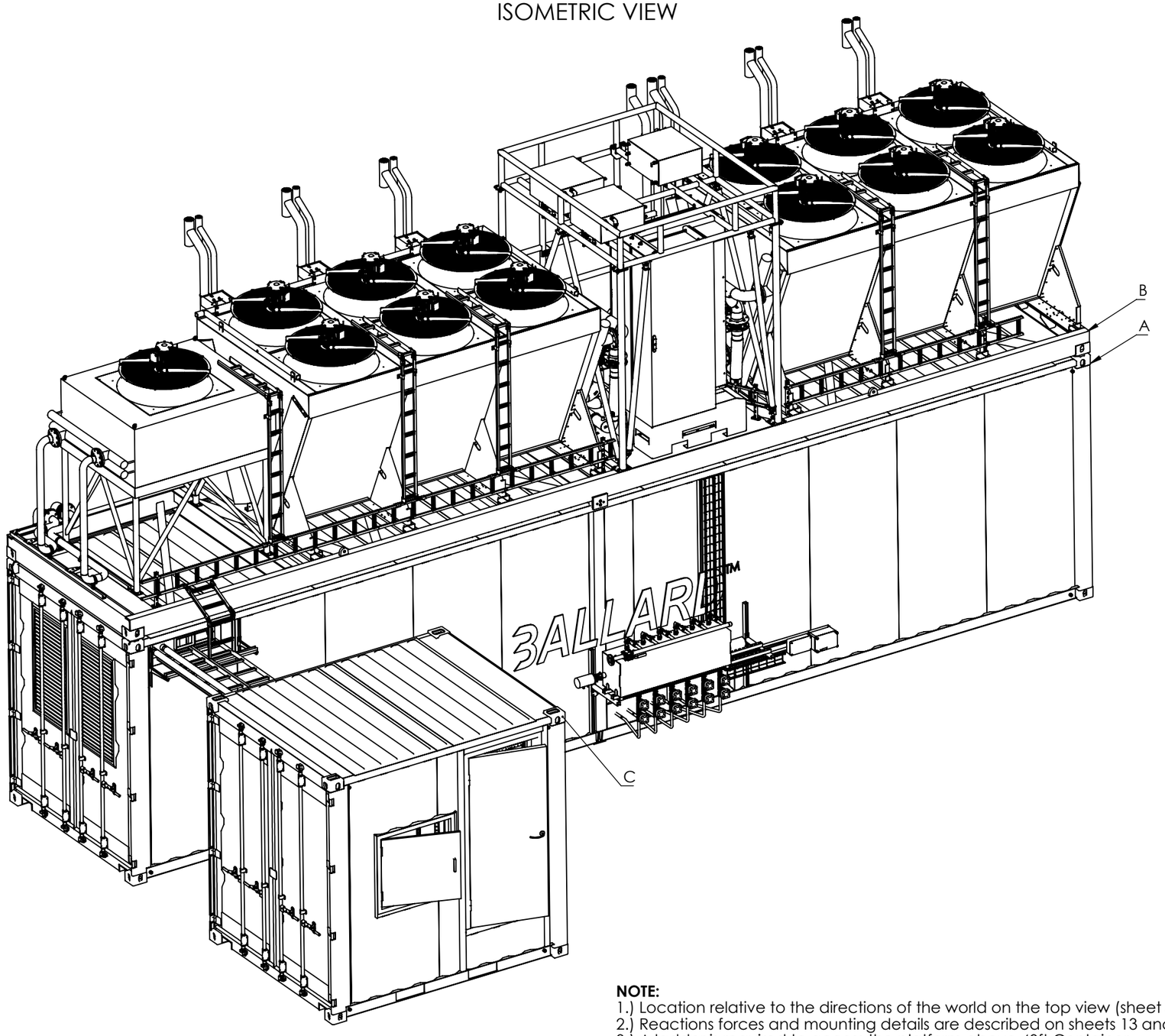
Ballard Power Systems Europe A/S
Majsmarken 1
9500 Hobro
Denmark

Revision history		
Rev.	**Date.**	**Description**
001	10/02/2023	First Issue
002	24/03/2023	Re-issue according to comments
003	30/05/2023	Re-issue according to comments
004	10/11/2023	Re-issue according to comments
005	24/11/2023	Re-issue according to comments
006	02/04/2024	Re-issue according to comments
007	17/07/2024	Re-issue according to comments
008	05/09/2024	Re-issue (as built)
009	21/11/2024	Re-issue according to comments

Document Title:	**BLPH Project - General Arrangements**
Document Number:	K559-2254-CWIWP4202202-B01-001
Revision:	Rev009
Sequence Number:	001
File Name:	K559-2254-CWIWP4202202-B01-001Rev009
Purchaser Job:	K559-2254
Purchase Order:	CWIWP4202202
Code:	B01
Requsition Number:	n/a
Customer:	CrossWind C.V., Rotterdam, The Netherlands

ISOMETRIC VIEW



No	Name	Operating Masses	Dry Masses
A	40ft container	21680kg	21320kg
B	40ft fladbed	10060kg	9060kg
C	10ft container	7350kg	7310kg

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

BALLARD™

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

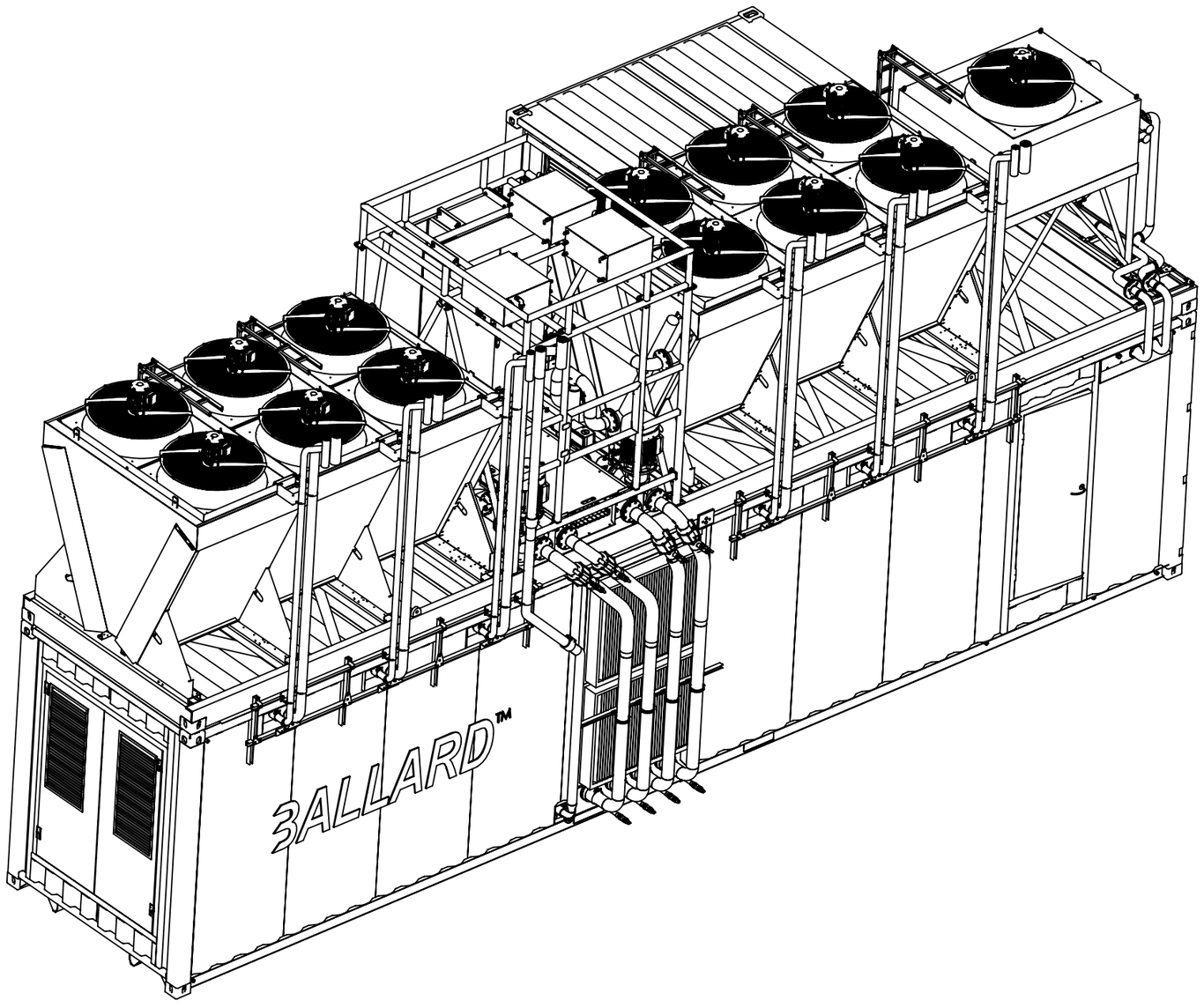
	By	Date
Drawn	ASM	20-02-2024
Revision		
Released		

General arrangement

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WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	1/14	1:50	601456B	9

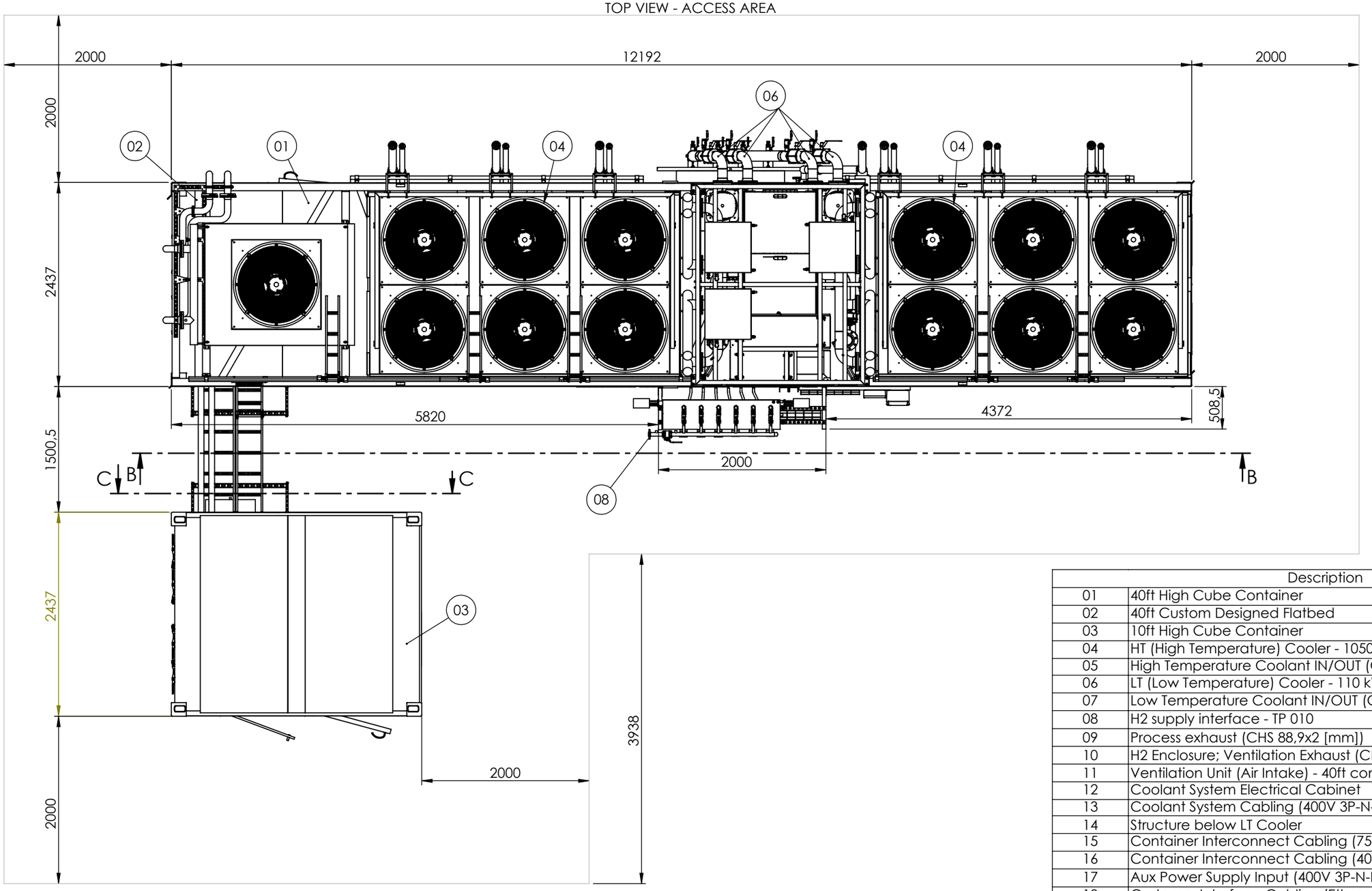
ISOMETRIC VIEW



NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)				BALLARD™				
Tolerances for linear and angular dimensions without individual tolerance according to ISO668		By	Date	General arrangement				
	Drawn	ASM	20-02-2024					
Surface appearance, if not specified, according to reference table LZT 142 0001, category 6	Revision							
	Released							
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TOP VIEW - ACCESS AREA





	Description	Note
01	40ft High Cube Container	
02	40ft Custom Designed Flatbed	
03	10ft High Cube Container	
04	HT (High Temperature) Cooler - 1050kW (Evapco)	
05	High Temperature Coolant IN/OUT (CHS 114,3x3 [mm])	
06	LT (Low Temperature) Cooler - 110 kW (Evapco)	
07	Low Temperature Coolant IN/OUT (CHS 88,9x3 [mm])	
08	H2 supply interface - TP 010	CIP
09	Process exhaust (CHS 88,9x2 [mm])	
10	H2 Enclosure; Ventilation Exhaust (CHS 60,3x2 [mm])	
11	Ventilation Unit (Air Intake) - 40ft container	
12	Coolant System Electrical Cabinet	
13	Coolant System Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
14	Structure below LT Cooler	
15	Container Interconnect Cabling (750V DC)	
16	Container Interconnect Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
17	Aux Power Supply Input (400V 3P-N-PE, 32A)	CIP
18	Customer Interface Cabling (Ethernet, Hardwired)	CIP
19	Drain interface - TP 015	CIP
21	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
22	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
23	Ventilation Unit (Air Intake) - 10ft container	
CHS = Circular Hollow Section		
CIP - Customer Interface Point		

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

Tolerances for linear and angular dimensions without individual tolerance according to ISO668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

	By	Date
Drawn	ASM	20-02-2024
Revision		
Released		

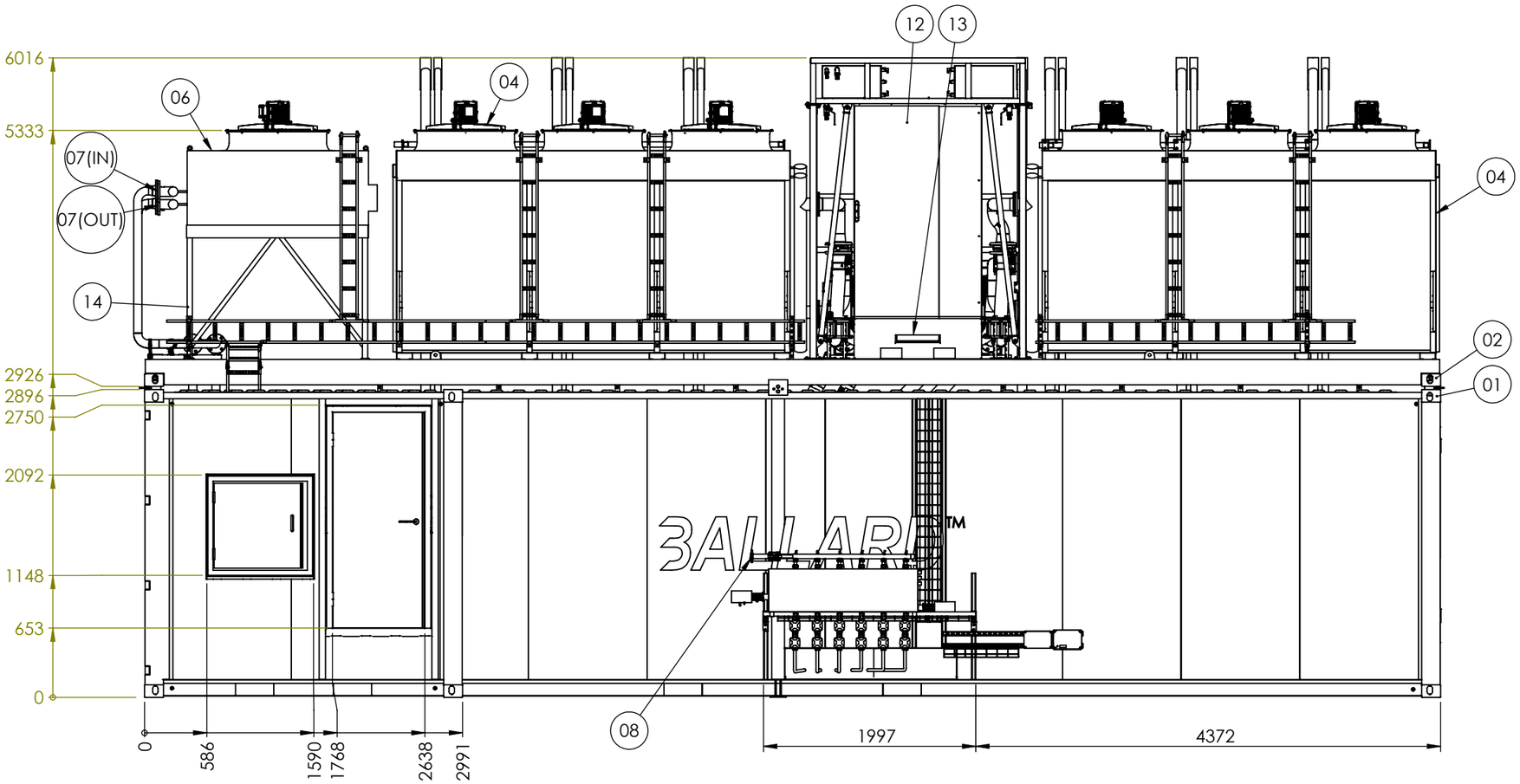
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General arrangement

WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	3/14	1:50	601456B	9

FRONT VIEW
(LOOKING SOUTH)



	Description	Note
01	40ft High Cube Container	
02	40ft Custom Designed Flatbed	
03	10ft High Cube Container	
04	HT (High Temperature) Cooler - 1050kW (Evapco)	
05	High Temperature Coolant IN/OUT (CHS 114,3x3 [mm])	
06	LT (Low Temperature) Cooler - 110 kW (Evapco)	
07	Low Temperature Coolant IN/OUT (CHS 88,9x3 [mm])	
08	H2 supply interface - TP 010	CIP
09	Process exhaust (CHS 88,9x2 [mm])	
10	H2 Enclosure; Ventilation Exhaust (CHS 60,3x2 [mm])	
11	Ventilation Unit (Air Intake) - 40ft container	
12	Coolant System Electrical Cabinet	
13	Coolant System Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
14	Structure below LT Cooler	
15	Container Interconnect Cabling (750V DC)	
16	Container Interconnect Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
17	Aux Power Supply Input (400V 3P-N-PE, 32A)	CIP
18	Customer Interface Cabling (Ethernet, Hardwired)	CIP
19	Drain interface - TP 015	CIP
20	~~Cover of hydrogen manifold~~	Optional
21	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
22	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
23	Ventilation Unit (Air Intake) - 10ft container	
CHS = Circular Hollow Section		
CIP - Customer Interface Point		

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

BALLARD™

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

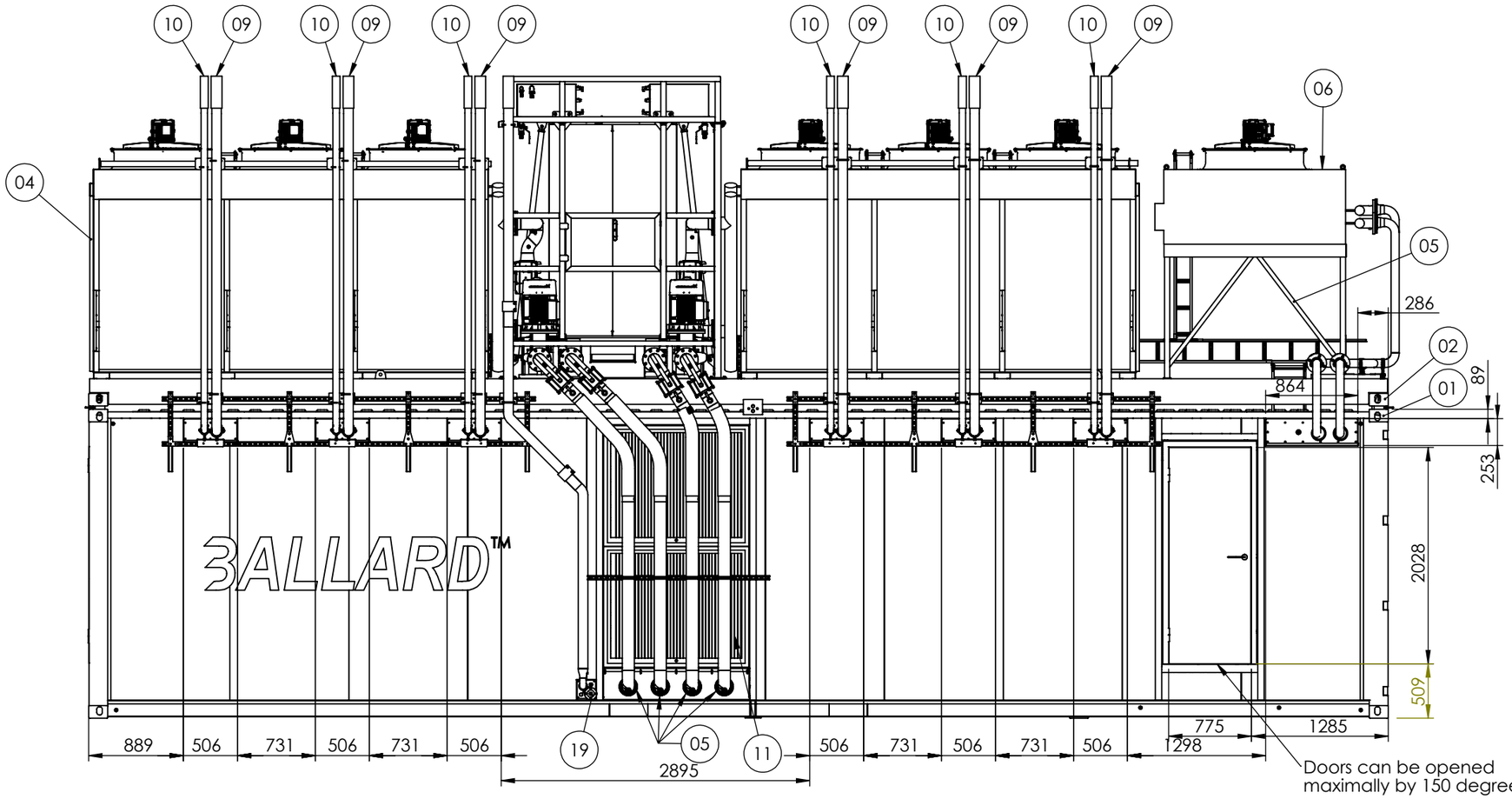
	By	Date
Drawn	ASM	20-02-2024
Revision		
Released		

General arrangement

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WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	4/14	1:50	601456B	9

BACK VIEW
(LOOKING NORTH)



	Description	Note
01	40ft High Cube Container	
02	40ft Custom Designed Flatbed	
03	10ft High Cube Container	
04	HT (High Temperature) Cooler - 1050kW (Evapco)	
05	High Temperature Coolant IN/OUT (CHS 114,3x3 [mm])	
06	LT (Low Temperature) Cooler - 110 kW (Evapco)	
07	Low Temperature Coolant IN/OUT (CHS 88,9x3 [mm])	
08	H2 supply interface - TP 010	CIP
09	Process exhaust (CHS 88,9x2 [mm])	
10	H2 Enclosure; Ventilation Exhaust (CHS 60,3x2 [mm])	
11	Ventilation Unit (Air Intake) - 40ft container	
12	Coolant System Electrical Cabinet	
13	Coolant System Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
14	Structure below LT Cooler	
15	Container Interconnect Cabling (750V DC)	
16	Container Interconnect Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
17	Aux Power Supply Input (400V 3P-N-PE, 32A)	CIP
18	Customer Interface Cabling (Ethernet, Hardwired)	CIP
19	Drain interface - TP 015	CIP
20	~~Cover of hydrogen manifold~~	Optional
21	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
22	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
23	Ventilation Unit (Air Intake) - 10ft container	
CHS = Circular Hollow Section		
CIP - Customer Interface Point		

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

BALLARD™

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

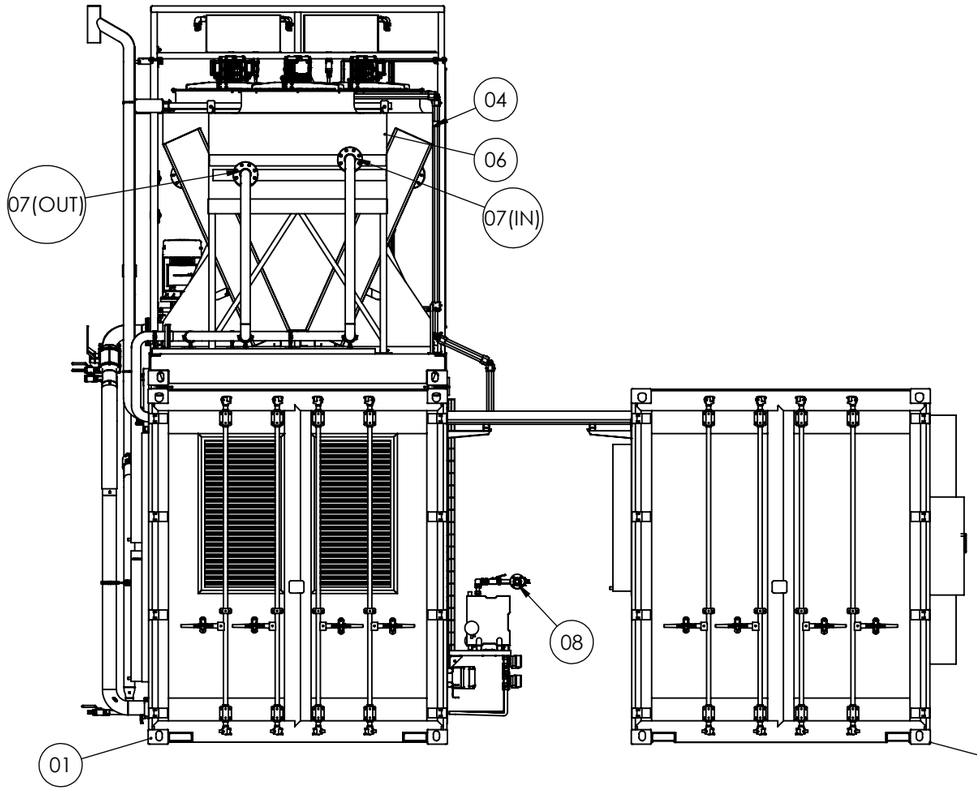
	By	Date
Drawn	ASM	20-02-2024
Revision		
Released		

General arrangement

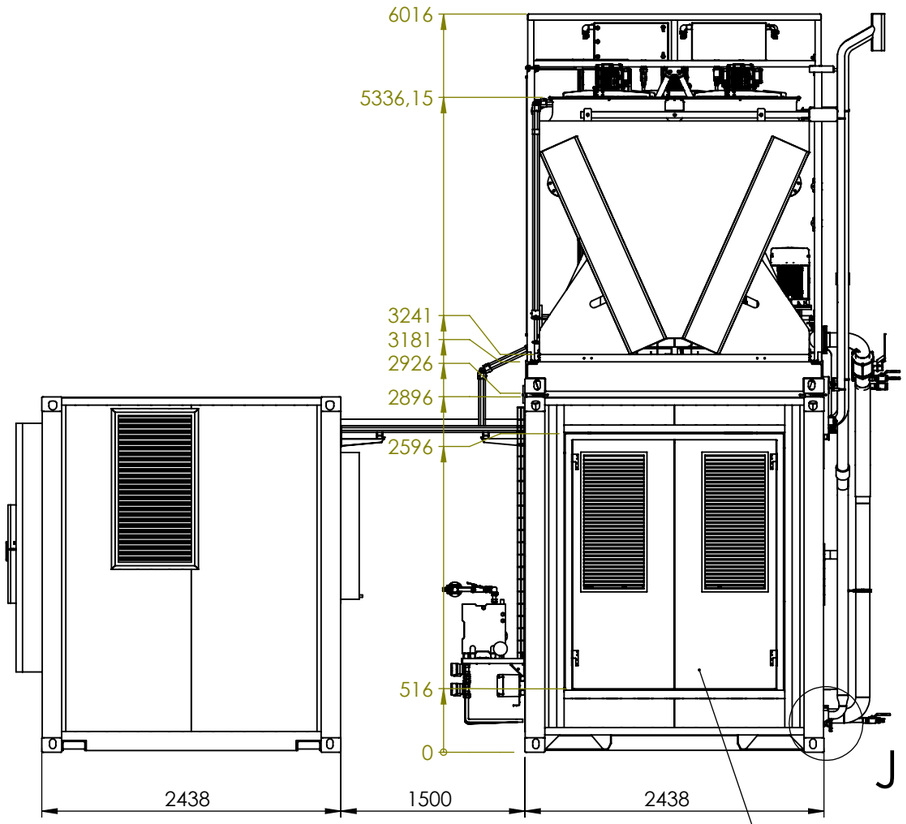
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WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	5/14	1:50	601456B	9

RIGHT VIEW
(LOOKING WEST)

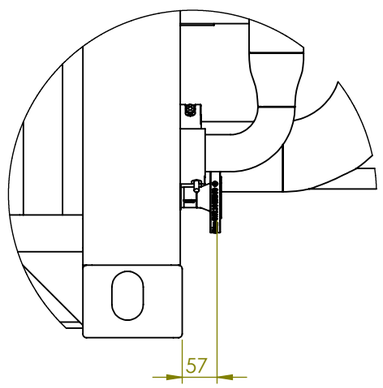


LEFT VIEW
(LOOKING EAST)



Doors can be opened
maximally by 150 degrees

	Description	Note
01	40ft High Cube Container	
02	40ft Custom Designed Flatbed	
03	10ft High Cube Container	
04	HT (High Temperature) Cooler - 1050kW (Evapco)	
05	High Temperature Coolant IN/OUT (CHS 114,3x3 [mm])	
06	LT (Low Temperature) Cooler - 110 kW (Evapco)	
07	Low Temperature Coolant IN/OUT (CHS 88,9x3 [mm])	
08	H2 supply interface - TP 010	CIP
09	Process exhaust (CHS 88,9x2 [mm])	
10	H2 Enclosure; Ventilation Exhaust (CHS 60,3x2 [mm])	
11	Ventilation Unit (Air Intake) - 40ft container	
12	Coolant System Electrical Cabinet	
13	Coolant System Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
14	Structure below LT Cooler	
15	Container Interconnect Cabling (750V DC)	
16	Container Interconnect Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
17	Aux Power Supply Input (400V 3P-N-PE, 32A)	CIP
18	Customer Interface Cabling (Ethernet, Hardwired)	CIP
19	Drain interface - TP 015	CIP
20	~~Cover of hydrogen manifold~~	Optional
21	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
22	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
23	Ventilation Unit (Air Intake) - 10ft container	
CHS = Circular Hollow Section		
CIP - Customer Interface Point		



DETAIL J
SCALE 1 : 10

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

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Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

	By	Date
Drawn	ASM	20-02-2024
Revision		
Released		

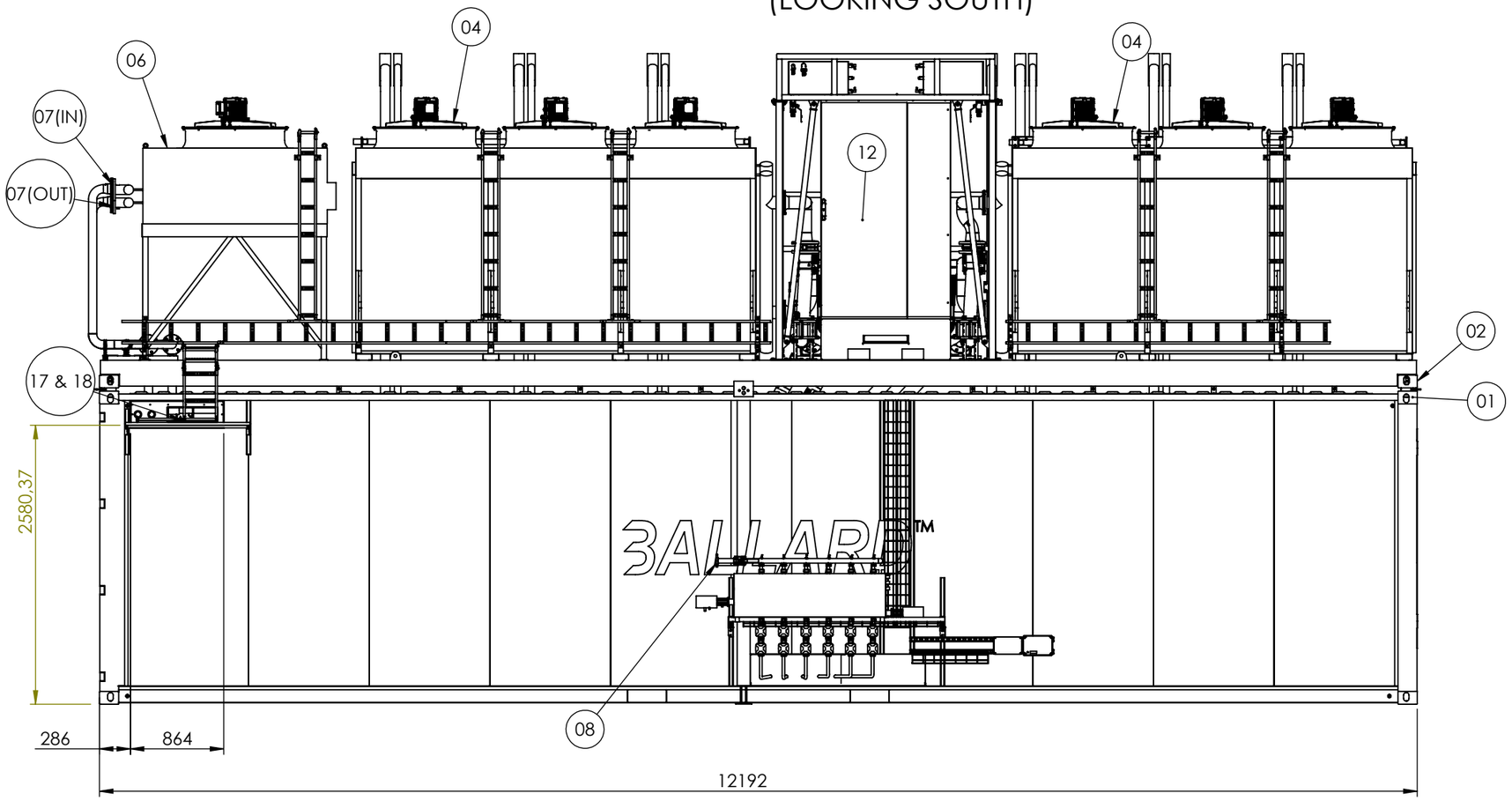
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BALLARD

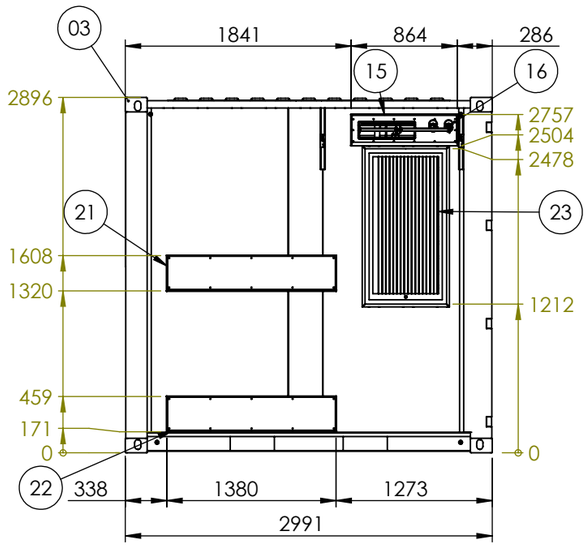
General arrangement

WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	6/14	1:50	601456B	9

FRONT VIEW
(LOOKING SOUTH)



SECTION B-B



SECTION C-C

	Description	Note
01	40ft High Cube Container	
02	40ft Custom Designed Flatbed	
03	10ft High Cube Container	
04	HT (High Temperature) Cooler - 1050kW (Evapco)	
05	High Temperature Coolant IN/OUT (CHS 114,3x3 [mm])	
06	LT (Low Temperature) Cooler - 110 kW (Evapco)	
07	Low Temperature Coolant IN/OUT (CHS 88,9x3 [mm])	
08	H2 supply interface - TP 010	CIP
09	Process exhaust (CHS 88,9x2 [mm])	
10	H2 Enclosure; Ventilation Exhaust (CHS 60,3x2 [mm])	
11	Ventilation Unit (Air Intake) - 40ft container	
12	Coolant System Electrical Cabinet	
13	Coolant System Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
14	Structure below LT Cooler	
15	Container Interconnect Cabling (750V DC)	
16	Container Interconnect Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
17	Aux Power Supply Input (400V 3P-N-PE, 32A)	CIP
18	Customer Interface Cabling (Ethernet, Hardwired)	CIP
19	Drain interface - TP 015	CIP
20	~~Cover of hydrogen manifold~~	Optional
21	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
22	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
23	Ventilation Unit (Air Intake) - 10ft container	
CHS = Circular Hollow Section		
CIP - Customer Interface Point		

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

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BALLARD™

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

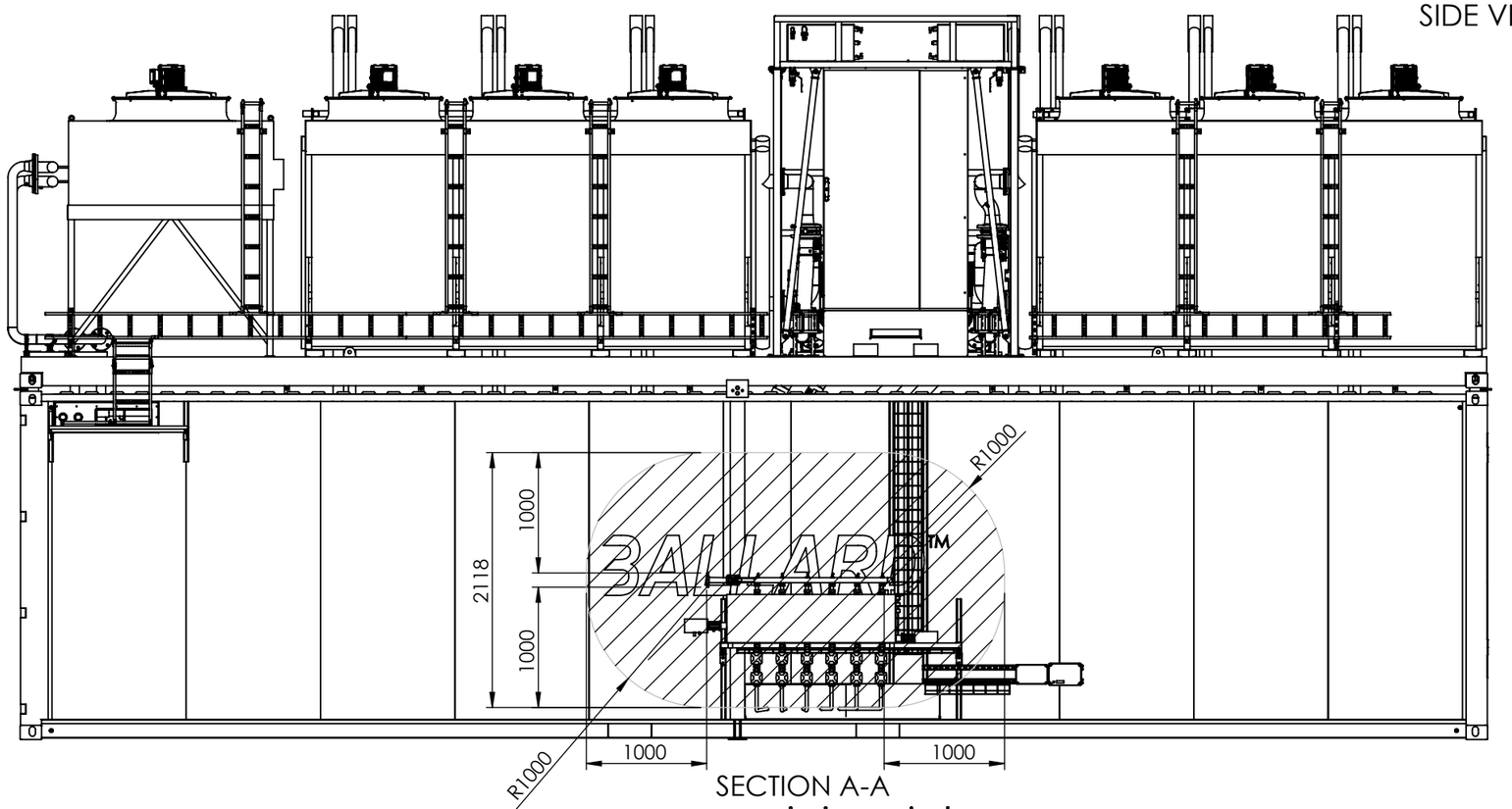
	By	Date
Drawn	ASM	20-02-2024
Revision		
Released		

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WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
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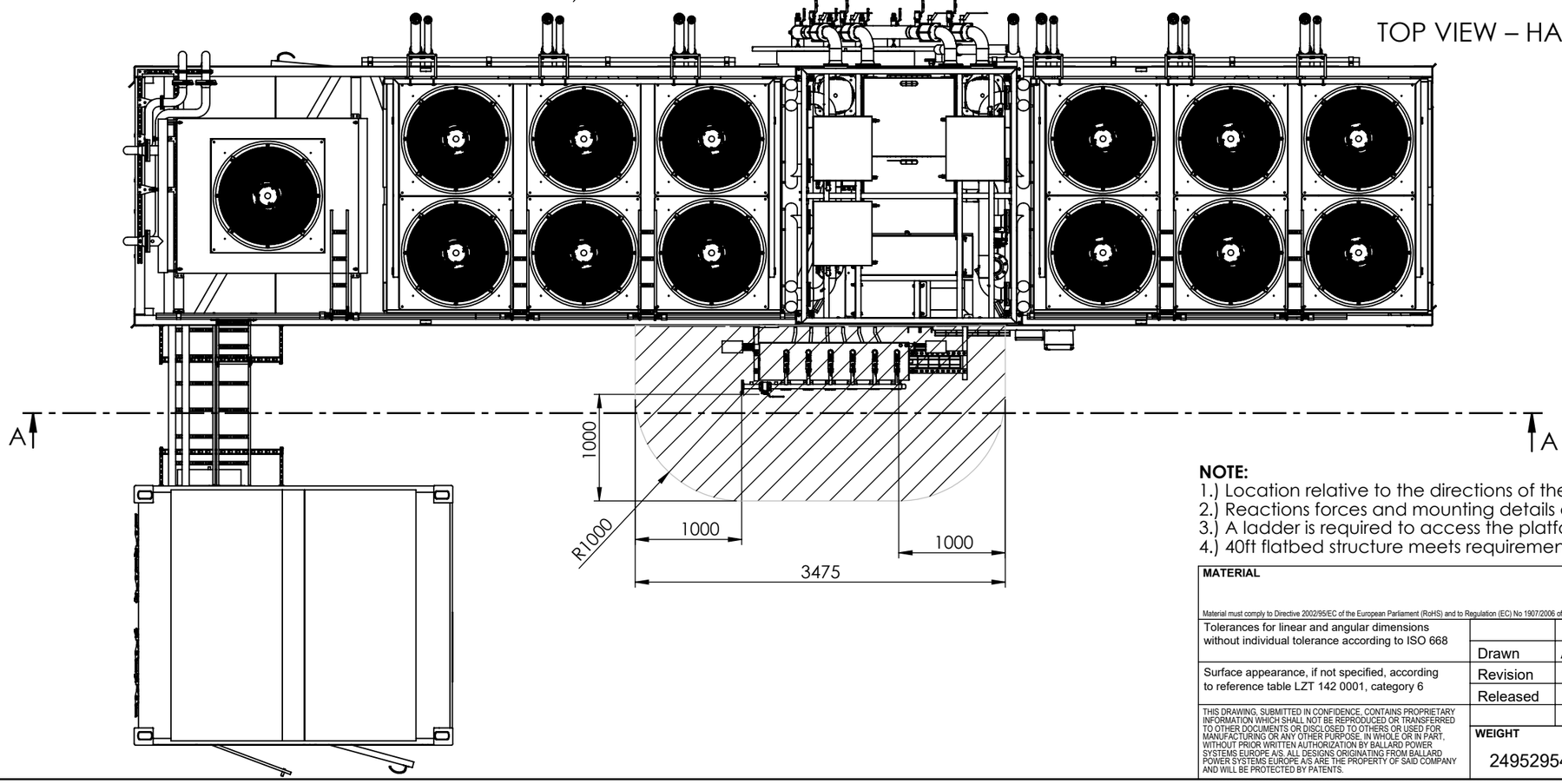
SIDE VIEW - HAZARD AREA



SECTION A-A

Zone 2 Gc IIC T1

TOP VIEW – HAZARD AREA



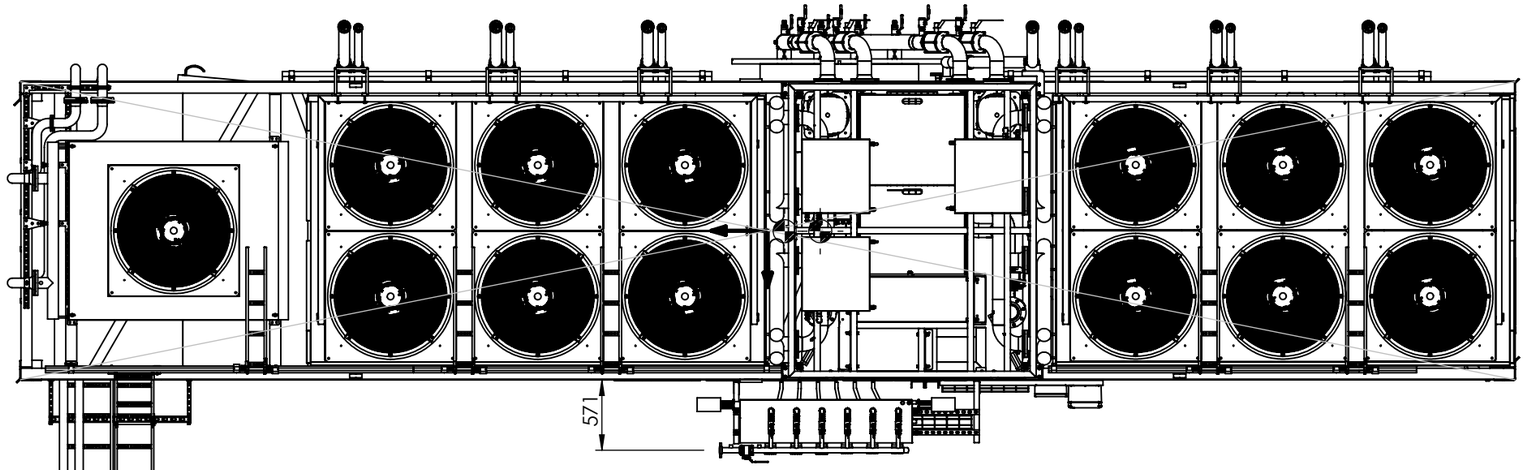
NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

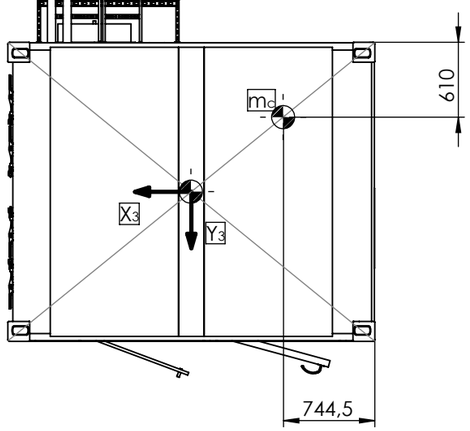
MATERIAL Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)			BALLARD™
Tolerances for linear and angular dimensions without individual tolerance according to ISO 668		By	Date
	Drawn	ASM	20-02-2024
Surface appearance, if not specified, according to reference table LZT 142 0001, category 6	Revision		
	Released		
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WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	8/14	1:50	601456B	9

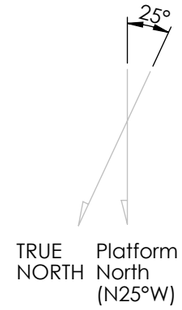
TOP VIEW - Center of Gravity

Access area





Access area



NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

BALLARD™

Tolerances for linear and angular dimensions without individual tolerance according to

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

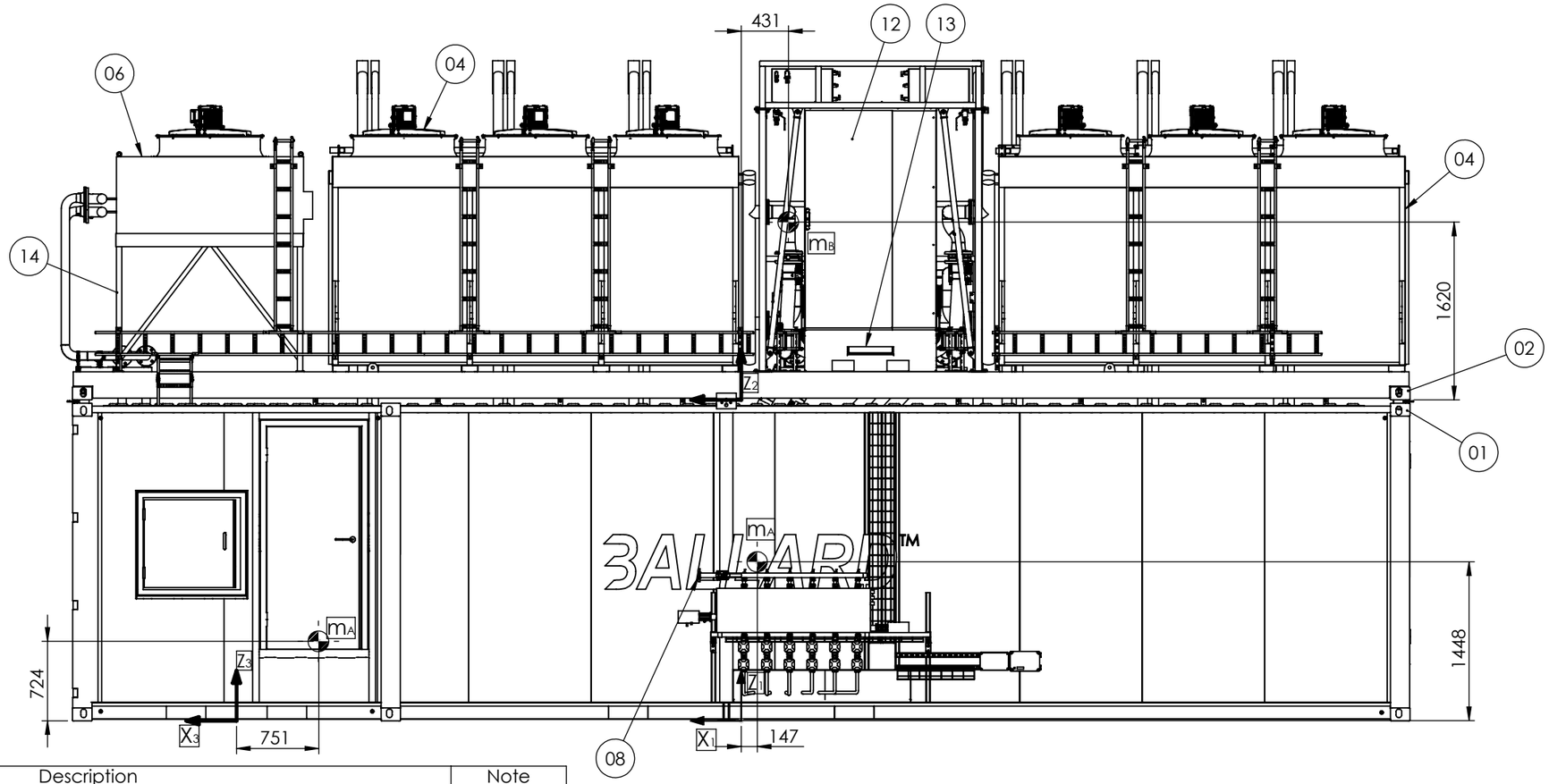
	By	Date
Drawn	ASM	20-02-2024
Revision		
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General arrangement

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WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	9/14	1:50	601456B	9

FRONT VIEW - Center of Gravity
(LOOKING SOUTH)



	Description	Note
01	40ft High Cube Container	
02	40ft Custom Designed Flatbed	
03	10ft High Cube Container	
04	HT (High Temperature) Cooler - 1050kW (Evapco)	
05	High Temperature Coolant IN/OUT (CHS 114,3x3 [mm])	
06	LT (Low Temperature) Cooler - 110 kW (Evapco)	
07	Low Temperature Coolant IN/OUT (CHS 88,9x3 [mm])	
08	H2 supply interface - TP 010	CIP
09	Process exhaust (CHS 88,9x2 [mm])	
10	H2 Enclosure; Ventilation Exhaust (CHS 60,3x2 [mm])	
11	Ventilation Unit (Air Intake) - 40ft container	
12	Coolant System Electrical Cabinet	
13	Coolant System Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
14	Structure below LT Cooler	
15	Container Interconnect Cabling (750V DC)	
16	Container Interconnect Cabling (400V 3P-N-PE, Ethernet, Hardwired)	
17	Aux Power Supply Input (400V 3P-N-PE, 32A)	CIP
18	Customer Interface Cabling (Ethernet, Hardwired)	CIP
19	Drain interface - TP 015	CIP
20	~~Cover of hydrogen manifold~~	Optional
21	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
22	Customer MV Connection (6,6kV AC 3P, 92A)	CIP
23	Ventilation Unit (Air Intake) - 10ft container	
	CHS = Circular Hollow Section	
	CIP - Customer Interface Point	

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

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WEIGHT 24952954 g

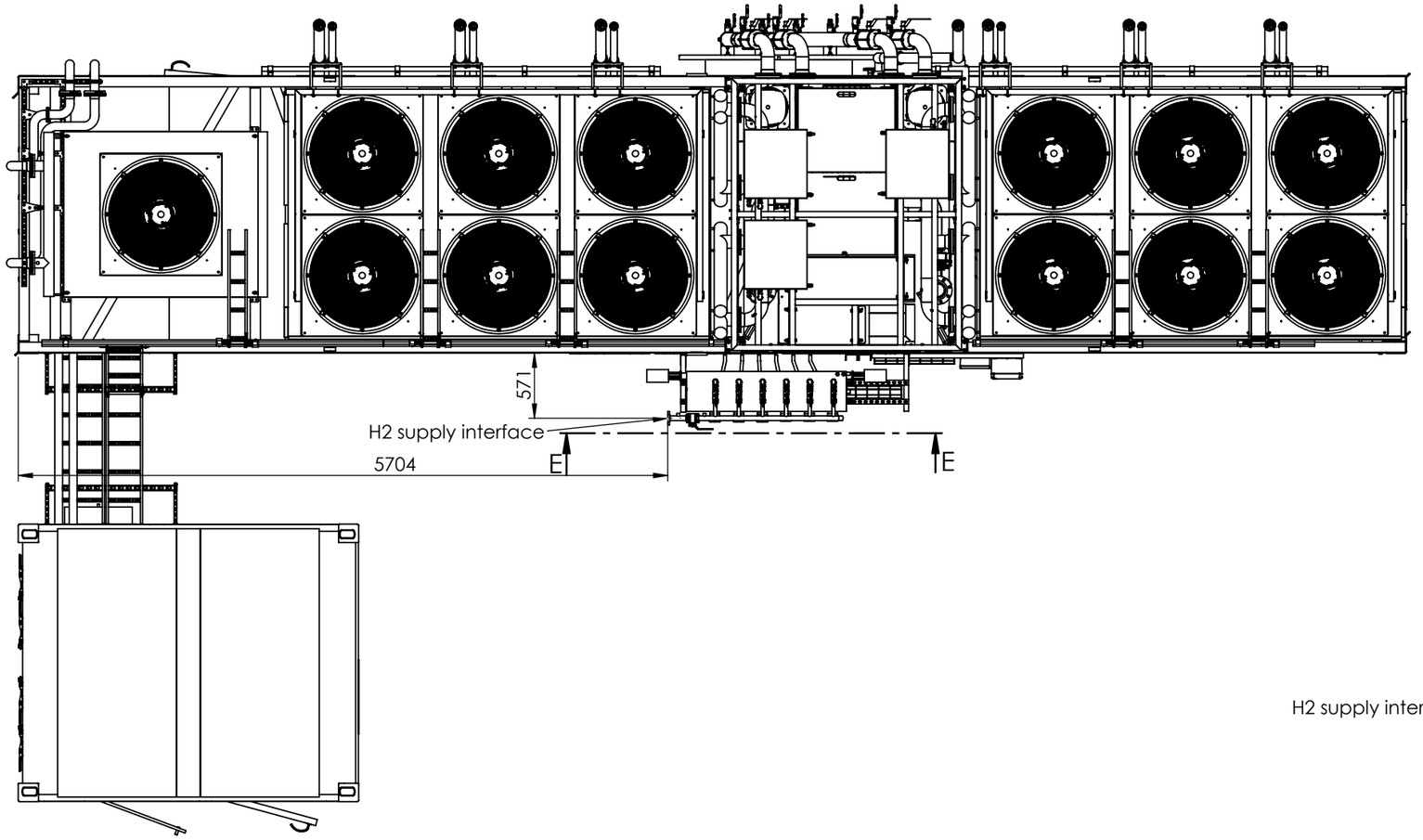
1st angle projection

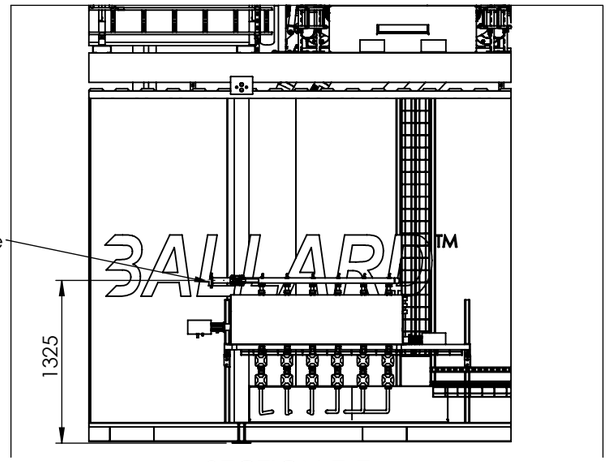
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General arrangement

SIZE	SHEET	SCALE	PART NUMBER:	REVISION
A3	10/14	1:50	601456B	9

TOP VIEW - H2 SUPPLY INTERFACE





SECTION E-E

Reference	Interface	Dimension	Flange Standard	Pressure class	Flange face	Material	Allowable nozzle loads
08	H2 supply interface - TP 010	DN32	EN1759-1	300	RF	ANSI 316	50N*
* All interfacing flanges/connections must be fully supported and compensated for loads and moments.							

MATERIAL

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Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

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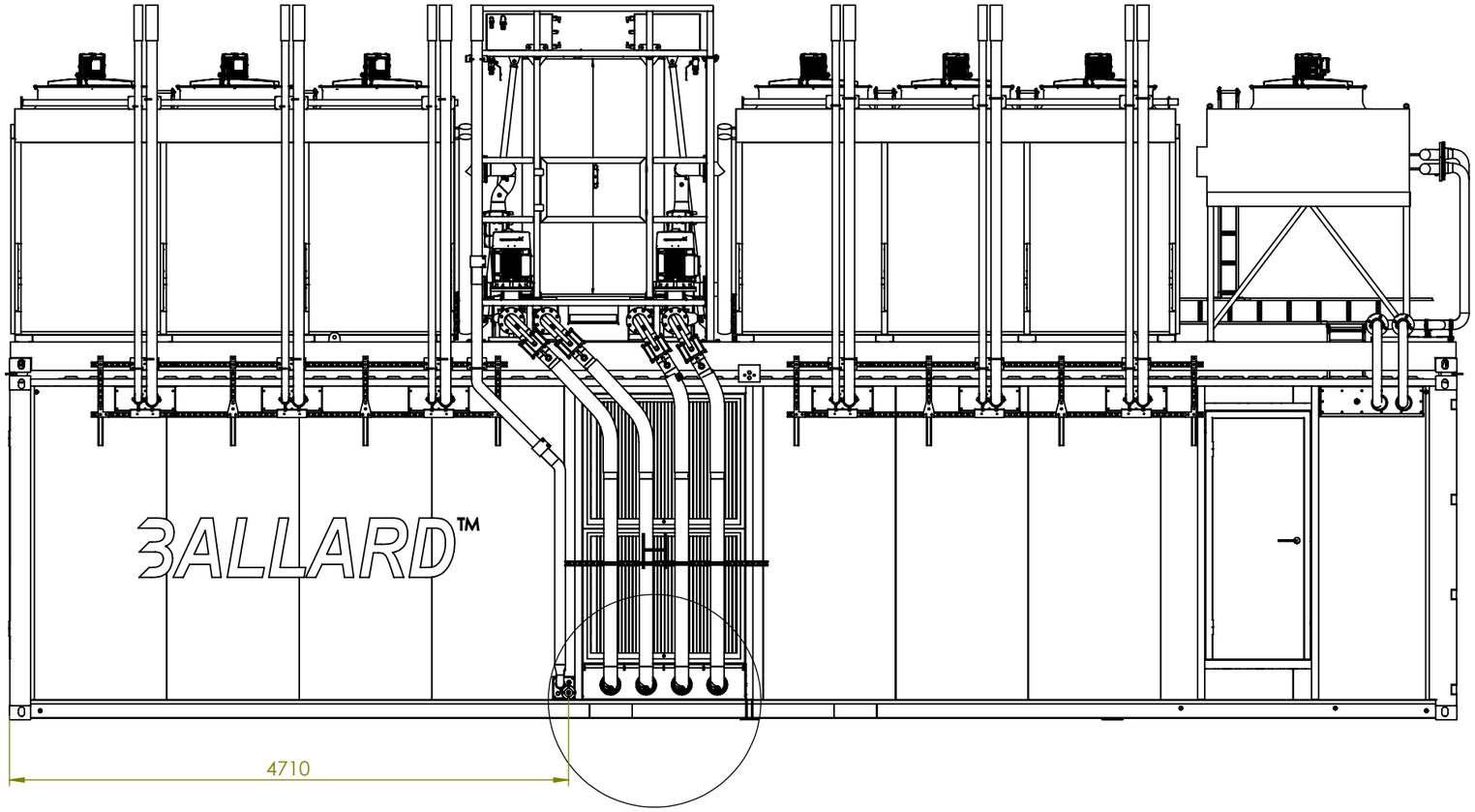
1st angle projection

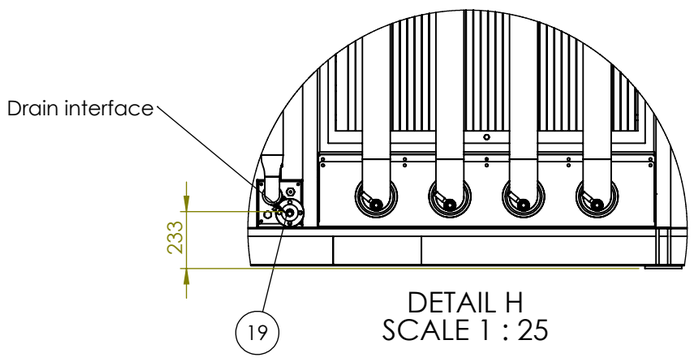
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General arrangement

SIZE	SHEET	SCALE	PART NUMBER:	REVISION
A3	11/14	1:50	601456B	9

FRONT VIEW LOOKING NORTH- DRAIN INTERFACE





DETAIL H
SCALE 1 : 25

Reference	Interface	Dimension	Flange Standard	Pressure class	Flange face	Material	Allowable nozzle loads
19	Drain interface - TP 015	1"	ASME B 16.5	150	RF	ANSI 316	50N*
* All interfacing flanges/connections must be fully supported and compensated for loads and moments.							

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

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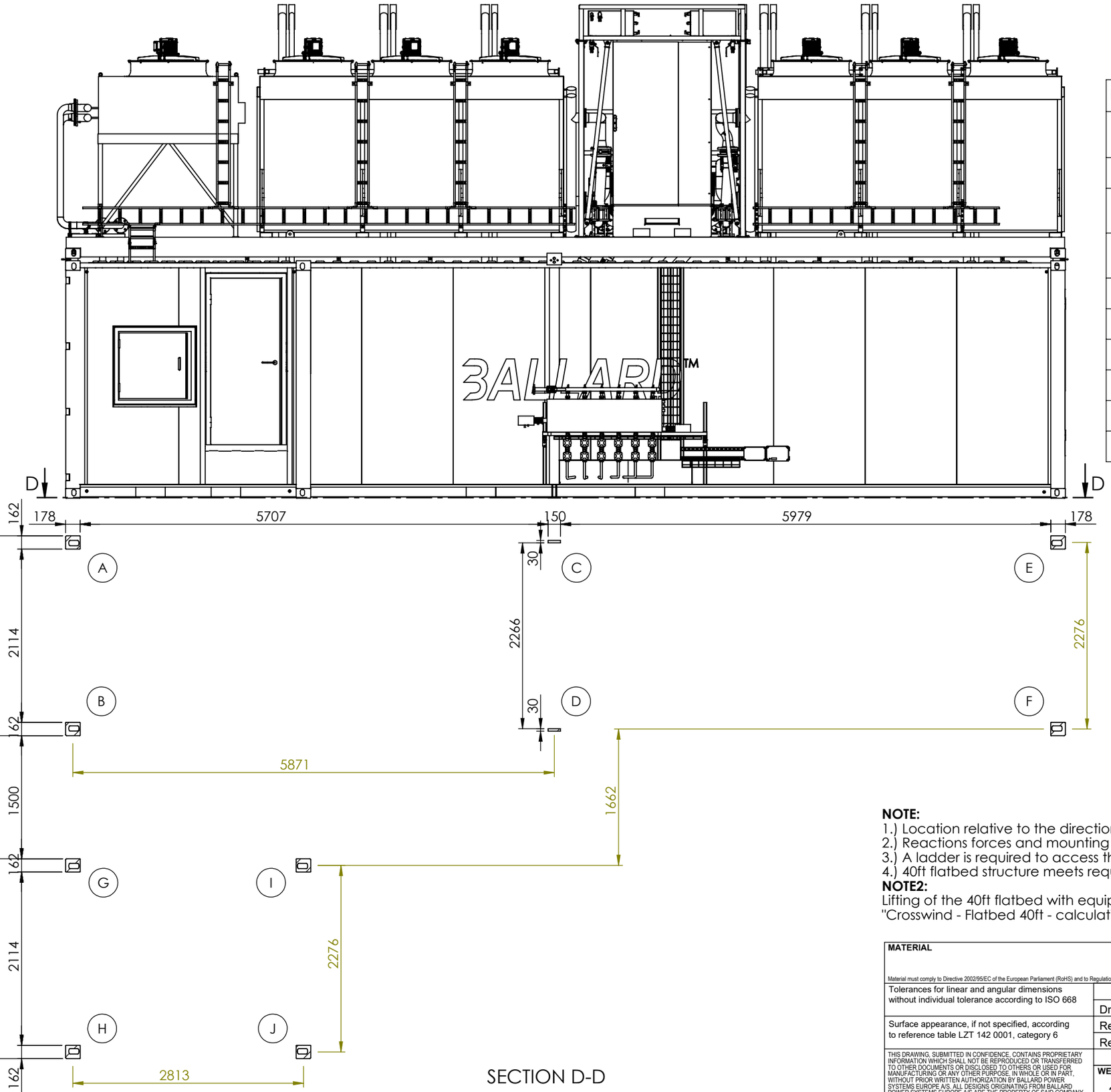
1st angle projection

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General arrangement

SIZE	SHEET	SCALE	PART NUMBER:	REVISION
A3	12/14	1:50	601456B	9

REACTIONS BOTTOM



SECTION D-D

Pointer	Element description	Required support description
A	Bottom left corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)
B	Bottom right corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)
C	Support plate 12x30x150	Supporting plate 30x150 (blocked movement in direction Z) (no bolts, only compression reaction force)
D	Support plate 12x30x150	Supporting plate 30x150 (blocked movement in direction Z) (no bolts, only compression reaction force)
E	Bottom right corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)
F	Bottom left corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)
G	Bottom left corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)
H	Bottom right corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)
I	Bottom right corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)
J	Bottom left corner - ISO1161	Standard Container Twist-Lock (blocked movement in directions X, Y, Z)

NOTE:
1.) Location relative to the directions of the world on the top view (sheet 3/14)
2.) Reactions forces and mounting details are described on sheets 13 and 14
3.) A ladder is required to access the platform above 40ft Container
4.) 40ft flatbed structure meets requirements of EN1090-2 - Execution class: EXC2.

NOTE2:
Lifting of the 40ft flatbed with equipment in accordance to guidelines specified in structural calculation report: "Crosswind - Flatbed 40ft - calculation report rev_1.pdf"

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and to Regulation (EC) No 1907/2006 of the European Parliament (Reach)

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

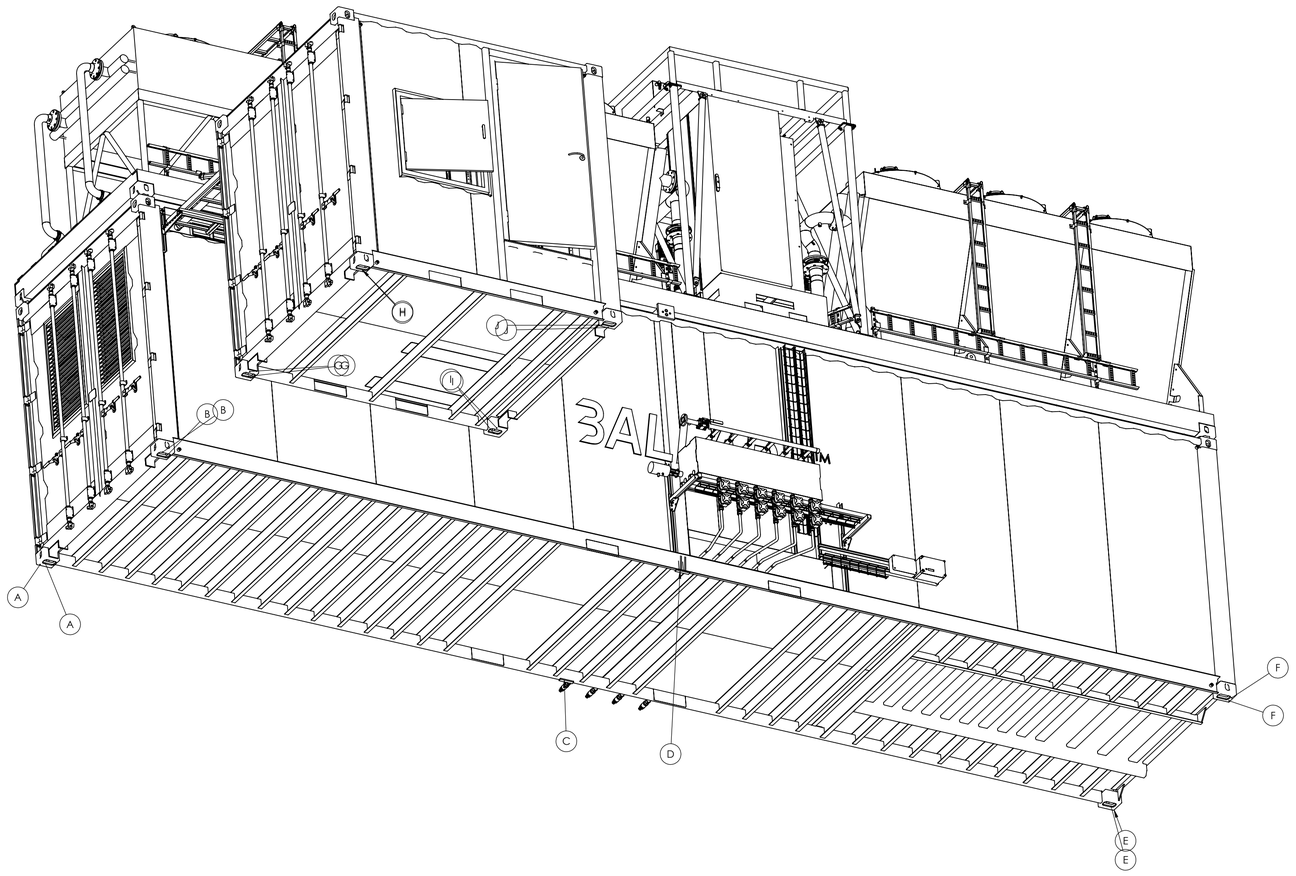
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General arrangement

WEIGHT		SIZE	SHEET	SCALE	PART NUMBER:	REVISION
24952954 g	1st angle projection	A3	13/14	1:50	601456B	9



40ft container							
Ultimate Limit State: LC5 - Lifting of 40ft container with full equipment							
LC5 - Lifting offshore vertical by 4 bottom ISO 1161 Corners (only 40ft container), [SF=2,34]				LC5 - Lifting offshore vertical by 4 bottom ISO 1161 Corners (only 40ft container), [SF=2,34]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	-	-	126	A	-	-	125
B	-	-	133	B	-	-	134
C	-	-	-	C	-	-	-
D	-	-	-	D	-	-	-
E	-	-	133	E	-	-	134
F	-	-	128	F	-	-	128

40ft container							
Ultimate Limit State: LC5 - Lifting of 10ft container with full equipment							
LC5 - Lifting offshore vertical by 4 bottom ISO 1161 Corners (only 40ft container), [SF=2,34]				LC5 - Lifting offshore vertical by 4 bottom ISO 1161 Corners (only 40ft container), [SF=2,34]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-	-	25	G	-	-	25
H	-	-	17	H	-	-	16
I	-	-	100	I	-	-	99
J	-	-	22	J	-	-	23

40ft container + 40ft flatbed (CROSSWIND)							
Ultimate Limit State: LC7-LC14 - Sea transport on barge							
40ft container + 40ft flatbed (max self-weight) LC7 MAX-Sea transport on the barge Head sea, bow down, Y+ [Pitch case 1]				40ft container + 40ft flatbed (min self-weight) LC7 MIN-Sea transport on the barge Head sea, bow down, Y+ [Pitch case 1]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	39	-75	-158	A	65	-72	-217
B	-103	-63	300	B	-76	-63	234
C	-	-	113	C	-	-	53
D	-	-	130	D	-	-	24
E	11	-42	27	E	-24	-60	-70
F	53	-83	138	F	35	-67	93
40ft container + 40ft flatbed (max self-weight) LC8 MAX-Sea transport on the barge Quatering sea, bow down, X+ Y+ [Quatering 1]				40ft container + 40ft flatbed (min self-weight) LC8 MIN-Sea transport on the barge Quatering sea, bow down, X+ Y+ [Quatering 1]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	-64	-39	-60	A	-42	-37	-98
B	-153	-49	263	B	-131	-50	207
C	-	-	101	C	-	-	34
D	-	-	127	D	-	-	41
E	-45	-33	30	E	-74	-48	-42
F	-37	-44	85	F	-52	-30	21
40ft container + 40ft flatbed (max self-weight) LC9 MAX-Sea transport on the barge Beam sea, bow down, X+ [Roll case 1]				40ft container + 40ft flatbed (min self-weight) LC9 MIN-Sea transport on the barge Beam sea, bow down, X+ [Roll case 1]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	-130	9	80	A	-111	10	48
B	-131	-12	141	B	-111	-13	90
C	-	-	99	C	-	-	31
D	-	-	124	D	-	-	47
E	-44	2	70	E	-70	-11	-10
F	-78	2	-4	F	-92	13	-41
40ft container + 40ft flatbed (max self-weight) LC10 MAX-Sea transport on the barge Quatering sea, stern down, X+ Y+ [Quatering 2]				40ft container + 40ft flatbed (min self-weight) LC10 MIN-Sea transport on the barge Quatering sea, stern down, X+ Y+ [Quatering 2]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	-154	51	206	A	-132	53	172
B	-67	31	-6	B	-44	31	-65
C	-	-	105	C	-	-	30
D	-	-	126	D	-	-	49
E	-4	46	127	E	-32	32	61
F	-74	37	-39	F	-90	49	-82
40ft container + 40ft flatbed (max self-weight) LC11 MAX-Sea transport on the barge Head sea, stern down, Y- [Pitch case 2]				40ft container + 40ft flatbed (min self-weight) LC11 MIN-Sea transport on the barge Head sea, stern down, Y- [Pitch case 2]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	-104	68	265	A	-79	71	225
B	33	65	-126	B	61	64	-164
C	-	-	118	C	-	-	23
D	-	-	130	D	-	-	59
E	77	85	178	E	43	67	101
F	-6	43	-13	F	-26	59	-79
40ft container + 40ft flatbed (max self-weight) LC12 MAX-Sea transport on the barge Quatering sea, stern down, X-Y- [Quatering 3]				40ft container + 40ft flatbed (min self-weight) LC12 MIN-Sea transport on the barge Quatering sea, stern down, X- Y- [Quatering 3]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	0	33	161	A	22	35	129
B	88	51	-101	B	111	51	-166
C	-	-	118	C	-	-	41
D	-	-	120	D	-	-	51
E	129	75	164	E	101	61	99
F	81	6	60	F	66	19	10
40ft container + 40ft flatbed (max self-weight) LC13 MAX-Sea transport on the barge Beam sea, bow down, X- [Roll case 2]				40ft container + 40ft flatbed (min self-weight) LC13 MIN-Sea transport on the barge Beam sea, bow down, X- [Roll case 2]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	69	-14	19	A	88	-13	-13
B	66	14	9	B	87	13	-31
C	-	-	115	C	-	-	47
D	-	-	117	D	-	-	40
E	126	39	120	E	100	25	60
F	122	-38	120	F	107	-27	83
40ft container + 40ft flatbed (max self-weight) LC14 MAX-Sea transport on the barge Quatering sea, stern down, X-Y+ [Quatering 4]				40ft container + 40ft flatbed (min self-weight) LC14 MIN-Sea transport on the barge Quatering sea, stern down, X- Y+ [Quatering 4]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	92	-57	-108	A	113	-55	-150
B	1	-29	170	B	24	-30	116
C	-	-	113	C	-	-	53
D	-	-	120	D	-	-	35
E	88	-5	70	E	59	-20	-5
F	119	-74	154	F	104	-61	116

10ft container (CROSSWIND)							
Ultimate Limit State: LC7-LC14 - Sea transport on barge							
10ft container (max self-weight) LC7 MAX-Sea transport on barge Head sea, bow down, Y+ [Pitch case 1]				10ft container (min self-weight) LC7 MIN-Sea transport on barge Head sea, bow down, Y+ [Pitch case 1]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	3	-3	14	G	5	-7	1
H	-17	-19	15	H	-8	-11	5
I	11	-18	63	I	4	-16	7
J	2	-7	24	J	-1	-14	12
10ft container (max self-weight) LC8 MAX-Sea transport on barge Quatering sea, bow down, X+Y+ [Quatering 1]				10ft container (min self-weight) LC8 MIN-Sea transport on barge Quatering sea, bow down, X+Y+ [Quatering 1]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-23	3	24	G	-21	0	13
H	-27	-26	14	H	-20	-19	6
I	-7	-12	52	I	-13	-10	6
J	-7	5	19	J	-10	-1	10
10ft container (max self-weight) LC9 MAX-Sea transport on barge Beam sea, X+ [Roll case 1]				10ft container (min self-weight) LC9 MIN-Sea transport on barge Beam sea, X+ [Roll case 1]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-33	10	29	G	-32	6	19
H	-27	-23	13	H	-21	-17	5
I	-13	-3	54	I	-19	-1	11
J	-9	16	13	J	-12	11	4
10ft container (max self-weight) LC10 MAX-Sea transport on barge Quatering sea, stern down, X+Y+ [Quatering 2]				10ft container (min self-weight) LC10 MIN-Sea transport on barge Quatering sea, stern down, X+Y+ [Quatering 2]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-29	14	28	G	-28	11	17
H	-21	-15	11	H	-13	-8	3
I	-9	7	63	I	-15	9	17
J	-5	25	8	J	-8	20	-2
10ft container (max self-weight) LC11 MAX-Sea transport on barge Head sea, stern down, Y- [Pitch case 2]				10ft container (min self-weight) LC11 MIN-Sea transport on barge Head sea, stern down, Y- [Pitch case 2]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-8	14	19	G	-6	10	7
H	-6	-2	10	H	3	6	0
I	8	12	80	I	0	14	24
J	5	24	6	J	2	18	-6
10ft container (max self-weight) LC12 MAX-Sea transport on barge Quatering sea, stern down, X-Y- [Quatering 3]				10ft container (min self-weight) LC12 MIN-Sea transport on barge Quatering sea, stern down, X-Y- [Quatering 3]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	18	7	7	G	20	3	-3
H	6	5	10	H	13	12	1
I	25	7	84	I	19	8	37
J	15	12	9	J	12	6	0
10ft container (max self-weight) LC13 MAX-Sea transport on barge Beam sea, X- [Roll case 2]				10ft container (min self-weight) LC13 MIN-Sea transport on barge Beam sea, X- [Roll case 2]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	29	0	3	G	30	-3	8
H	6	3	11	H	13	9	3
I	31	-3	80	I	26	-1	37
J	17	0	15	J	14	-6	6
10ft container (max self-weight) LC14 MAX-Sea transport on barge Quatering sea, stern down, X-Y+ [Quatering 4]				10ft container (min self-weight) LC14 MIN-Sea transport on barge Quatering sea, stern down, X-Y+ [Quatering 4]			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	25	-4	4	G	26	-7	7
H	-1	-6	13	H	6	2	5
I	27	-12	73	I	21	-10	26
J	13	-8	21	J	10	14	11

40ft container + 40ft flatbed (CROSSWIND)							
Ultimate Limit State: LC15-LC18 - destination place (Offshore)							
40ft container + 40ft flatbed (max self-weight) LC15 MAX-Destination place - Offshore Wind X+				40ft container + 40ft flatbed (min self-weight) LC15 MIN-Destination place - Offshore Wind X+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	-67	2	58	A	-61	3	48
B	-69	-4	99	B	-63	-4	83
C	-	-	84	C	-	-	63
D	-	-	102	D	-	-	78
E	1	10	71	E	-7	6	51
F	-23	-8	20	F	-27	-4	9
40ft container + 40ft flatbed (max self-weight) LC16 MAX-Destination place - Offshore Wind Y+				40ft container + 40ft flatbed (min self-weight) LC16 MIN-Destination place - Offshore Wind Y+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	65	-95	-260	A	71	-95	-275
B	-115	-82	362	B	-108	-81	347
C	-	-	103	C	-	-	92
D	-	-	105	D	-	-	80
E	-4	-65	-38	E	-12	-69	-61
F	53	-95	158	F	50	-92	149
40ft container + 40ft flatbed (max self-weight) LC17 MAX-Destination place - Offshore Wind X+				40ft container + 40ft flatbed (min self-weight) LC17 MIN-Destination place - Offshore Wind X+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	16	-7	26	A	21	-6	17
B	13	6	39	B	19	6	21
C	-	-	97	C	-	-	76
D	-	-	102	D	-	-	78
E	69	24	91	E	61	20	72
F	60	-24	78	F	56	-20	66
40ft container + 40ft flatbed (max self-weight) LC18 MAX-Destination place - Offshore Wind Y+				40ft container + 40ft flatbed (min self-weight) LC18 MIN-Destination place - Offshore Wind Y+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
A	-117	90	332	A	-111	91	323
B	60	83	-237	B	67	83	-257
C	-	-	98	C	-	-	76
D	-	-	119	D	-	-	106
E	73	98	189	E	65	94	172
F	-17	66	-72	F	-21	69	-88

10ft container (CROSSWIND)							
Ultimate Limit State: LC15-LC18 - destination place (Offshore)							
10ft container (max self-weight) LC15 MAX-Destination place - Offshore Wind X+				10ft container (min self-weight) LC15 MIN-Destination place - Offshore Wind X+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-28	16	32	G	-24	13	28
H	-8	-14	-1	H	-7	-11	-1
I	6	-25	38	I	2	-21	26
J	-7	23	22	J	-8	19	17
10ft container (max self-weight) LC16 MAX-Destination place - Offshore Wind Y+				10ft container (min self-weight) LC16 MIN-Destination place - Offshore Wind Y+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-19	0	4	G	-15	-4	0
H	-7	-26	13	H	-6	-23	13
I	21	-30	39	I	16	-26	27
J	6	7	36	J	4	3	31
10ft container (max self-weight) LC17 MAX-Destination place - Offshore Wind X+				10ft container (min self-weight) LC17 MIN-Destination place - Offshore Wind X+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-4	6	2	G	1	3	-2
H	6	-10	0	H	7	-7	1
I	27	-16	38	I	22	-12	56
J	8	19	21	J	7	15	16
10ft container (max self-weight) LC18 MAX-Destination place - Offshore Wind Y+				10ft container (min self-weight) LC18 MIN-Destination place - Offshore Wind Y+			
Reactions	X [kN]	Y [kN]	Z [kN]	Reactions	X [kN]	Y [kN]	Z [kN]
G	-23	28	35	G	-18	25	30
H	-2	2	-17	H	-1	5	-17
I	21	-10	60	I	17	-6	48
J	3	29	13	J	2	25	8

MATERIAL

Material must comply to Directive 2002/95/EC of the European Parliament (RoHS) and its Regulation (EC) No 1907/2006 of the European Parliament (Reach)

Tolerances for linear and angular dimensions without individual tolerance according to ISO 668

Surface appearance, if not specified, according to reference table LZT 142 0001, category 6

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	By	Date
Drawn	ASM	20-02-2024
Revision		
Released		

WEIGHT 24952954 g

1st angle projection

BALLARD™

General arrangement

SIZE	SHEET	SCALE	PART NUMBER:	REVISION
A1	14/14	1:30	601456B	9