



BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Containerized

EC9 MODEL AND ADDITIONAL EQUIPMENT



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"MORE COST EFFECTIVE WITH WORLD CLASS QUALITY"

This installation manual has been prepared as a guide for assembling and installing the 9th Generation Evaporative Condenser, designed for high efficiency, durability, and cost-effectiveness with premium stainless steel materials.

The manual provides detailed step-by-step instructions, from the initial assembly of individual components to the installation of additional equipment. For models with varying footprints, users can refer to the table provided in this manual for specific assembly guidelines to ensure smooth and accurate installation.

We sincerely hope that this manual will serve as a valuable resource for users and facilitate efficient installation processes.

Footprint	Model
7' X 9' (2.3 X 2.7 m)	EC9-0510-07092-S EC9-0620-07092-S EC9-0710-0709C-S EC9-0750-0709C-S EC9-0860-0709C-L EC9-0910-0709C-L
7' X 12' (2.3 X 3.6 m)	EC9-0960-0712C-L EC9-1000-0712C-S EC9-1120-0712C-M EC9-1200-0712C-L EC9-1270-0712C-M EC9-1320-0712C-M EC9-1370-0712C-L EC9-1410-0712C-L
7' X 18' (2.3 X 5.5 m)	EC9-1300-0718C-S EC9-1520-0718C-L EC9-1570-0718C-S EC9-1750-0718C-M EC9-1760-0718C-S EC9-1990-0718C-M EC9-2060-0718C-M EC9-2140-0718C-L EC9-2200-0718C-L
10' X 12' (3.0 X 3.6 m)	EC9-1400-1012C-S EC9-1600-1012C-M EC9-1660-1012C-L EC9-1840-1012C-M EC9-1920-1012C-L EC9-2000-1012C-M EC9-2080-1012C-L

Footprint	Model
10' X 18' (3.0 X 5.5 m)	EC9-2250-1018C-S EC9-2520-1018C-M EC9-2550-1018C-S EC9-2860-1018C-M EC9-2990-1018C-L EC9-3120-1018C-M EC9-3250-1018C-L
12' X 12' (3.6 X 3.6 m)	EC9-1650-1212C-S EC9-1890-1212C-M EC9-1980-1212C-L EC9-2150-1212C-M EC9-2350-1212C-M EC9-2460-1212C-L
12' X 18' (3.6 X 5.5 m)	EC9-2600-1218C-S EC9-2950-1218C-S EC9-3010-1218C-M EC9-3400-1218C-M EC9-3730-1218C-M EC9-3900-1218C-L



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- 1. Installation outline
- 2. Installation Tool list
- 3. Installation Manual of EC9 Model

Footprint	Model	Page
7' X 9' [2.3 X 2.7 m]	EC9-0510-0709C-S EC9-0620-0709C-S EC9-0710-0709C-S EC9-0750-0709C-S EC9-0860-0709C-L EC9-0910-0709C-L	7
7' X 12' [2.3 X 3.6 m]	EC9-0960-0712C-L EC9-1000-0712C-S EC9-1120-0712C-M EC9-1200-0712C-L EC9-1270-0712C-M EC9-1320-0712C-M EC9-1370-0712C-L EC9-1410-0712C-L	19
7' X 18' [2.3 X 5.5 m]	EC9-1300-0718C-S EC9-1520-0718C-L EC9-1570-0718C-S EC9-1750-0718C-M EC9-1760-0718C-S EC9-1990-0718C-M EC9-2060-0718C-M EC9-2140-0718C-L EC9-2200-0718C-L	31
10' X 12' [3.0 X 3.6 m]	EC9-1400-1012C-S EC9-1600-1012C-M EC9-1660-1012C-L EC9-1840-1012C-M EC9-1920-1012C-L EC9-2000-1012C-M EC9-2080-1012C-L	43
10' X 18' [3.0 X 5.5 m]	EC9-2250-1018C-S EC9-2520-1018C-M EC9-2550-1018C-S EC9-2860-1018C-M EC9-2990-1018C-L EC9-3120-1018C-M EC9-3250-1018C-L	63
12' X 12' [3.6 X 3.6 m]	EC9-1650-1212C-S EC9-1890-1212C-M EC9-1980-1212C-L EC9-2150-1212C-M EC9-2350-1212C-M EC9-2460-1212C-L	84
12' X 18' [3.6 X 5.5 m]	EC9-2600-1218C-S EC9-2950-1218C-S EC9-3010-1218C-M EC9-3400-1218C-M EC9-3730-1218C-M EC9-3900-1218C-L	104

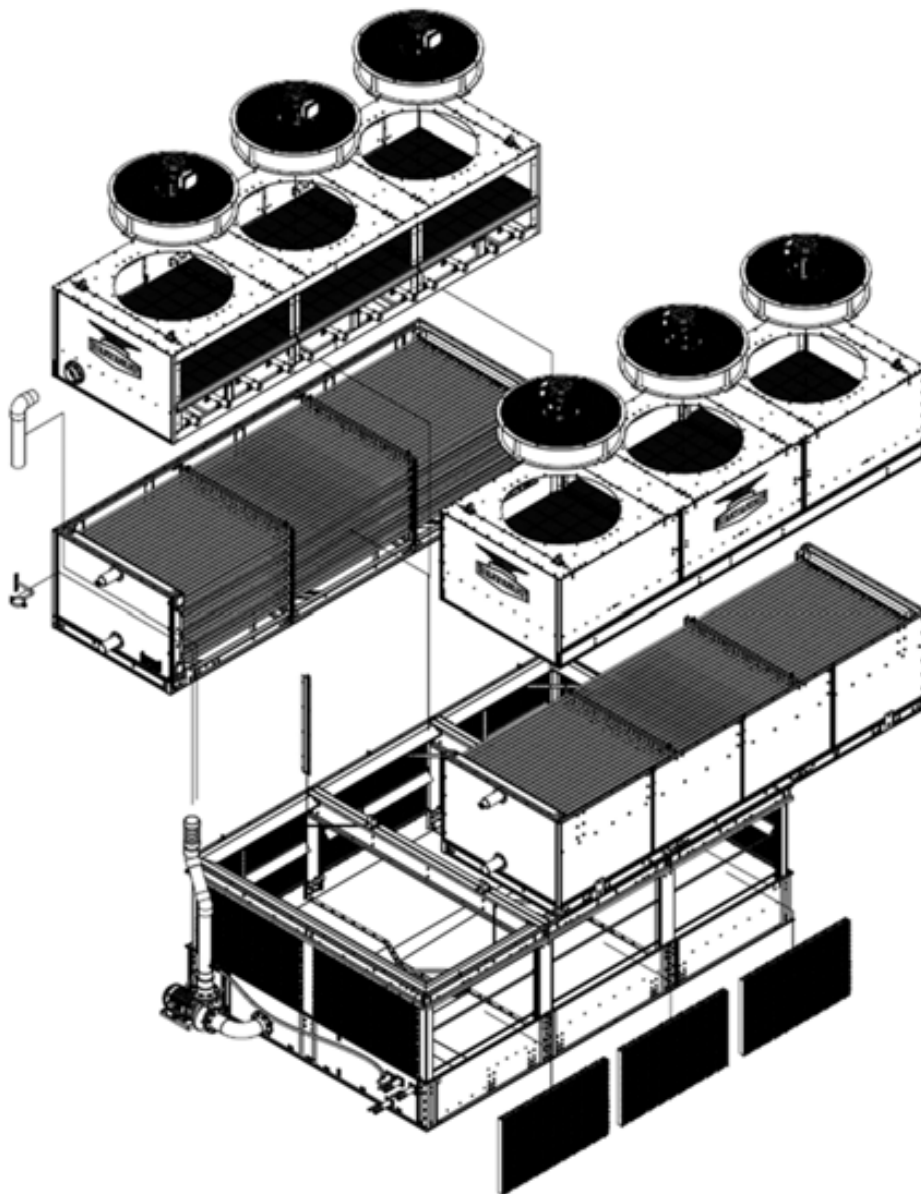


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3. Installation Additional Equipment of EC9

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Standby Water pump	Additional Standby Water pump	129
Ladder	Standard Ladder and Customize Ladder	132
Platform	Platform for footprint Length 9' Platform for footprint Length 12' Platform for footprint Length 18'	133 136 139
Top Handrail	Standard Top Handrail	144
Cage	Standard cage Addition cage	145

The assembly process of the Evaporative Condenser is outlined in a clear and systematic manner, starting with the basin section, followed by the coil section, and concluding with the fan section. Each step is detailed and accompanied by corresponding illustrations to ensure accuracy and ease of assembly.



Step3
FAN Section



Step2
Coil Section



Step1
Basin Section

To assist with tooling for the assembly of an Evaporative Condenser EC9

1. Impact Wrench
2. Sockets (Size M6 M8 M10 M12 M16 M20)
3. Combination Wrenches (Size M6 M8 M10 M12 M16 M20)
4. Universal Joint
5. Silicone Sealant Gun



Impact Wrench



Sockets



Combination Wrenches



Universal Joint



Silicone Sealant Gun



BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

7' X 9'

Model

EC9-0510-0709C-S

EC9-0620-0709C-S

EC9-0710-0709C-S

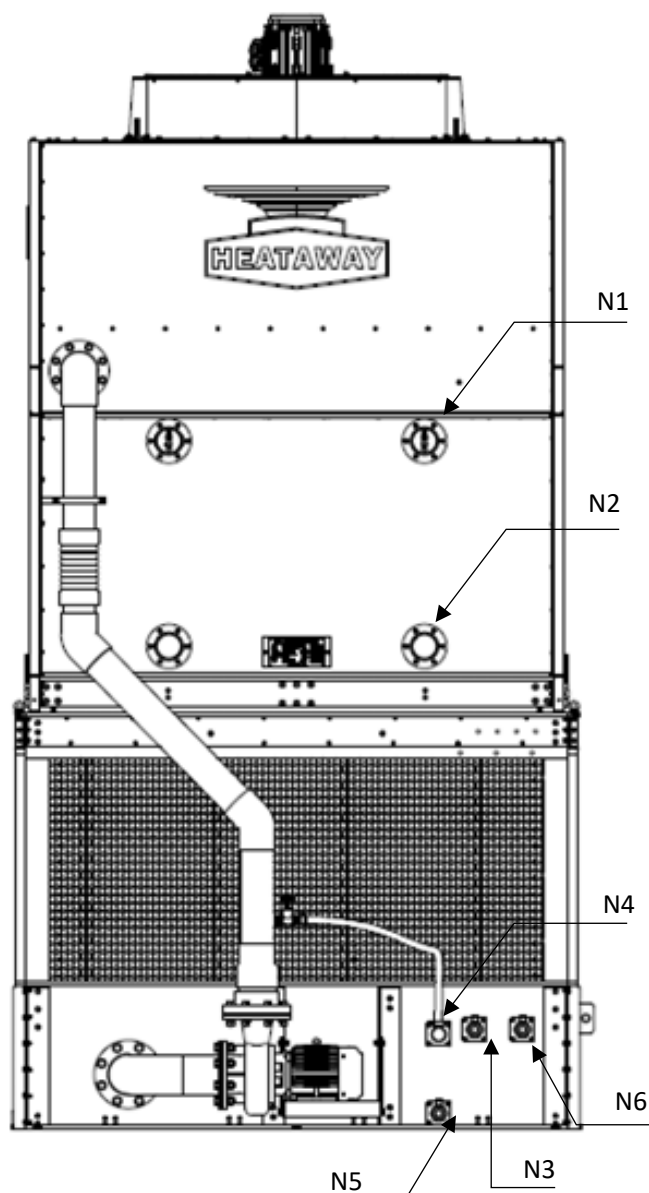
EC9-0750-0709C-S

EC9-0860-0709C-L

EC9-0910-0709C-L

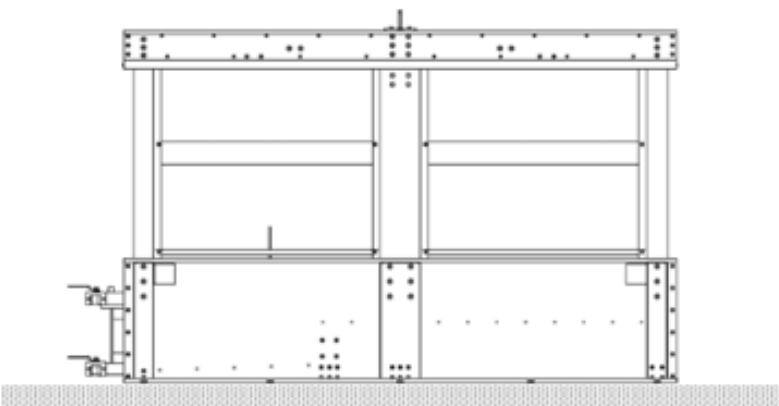
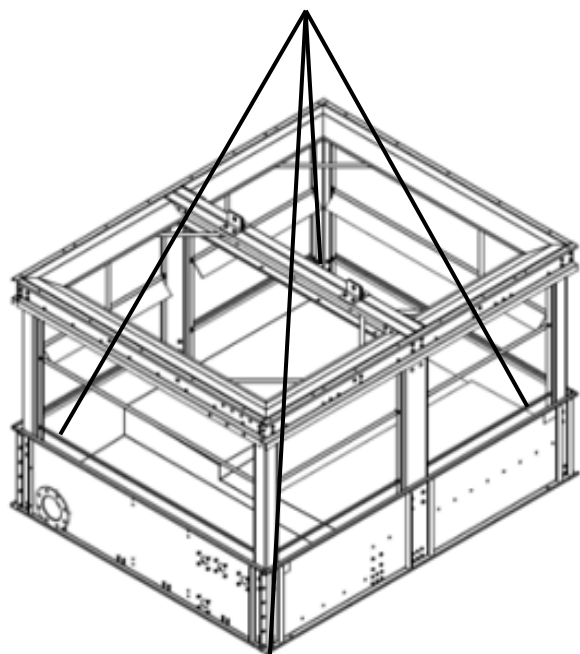


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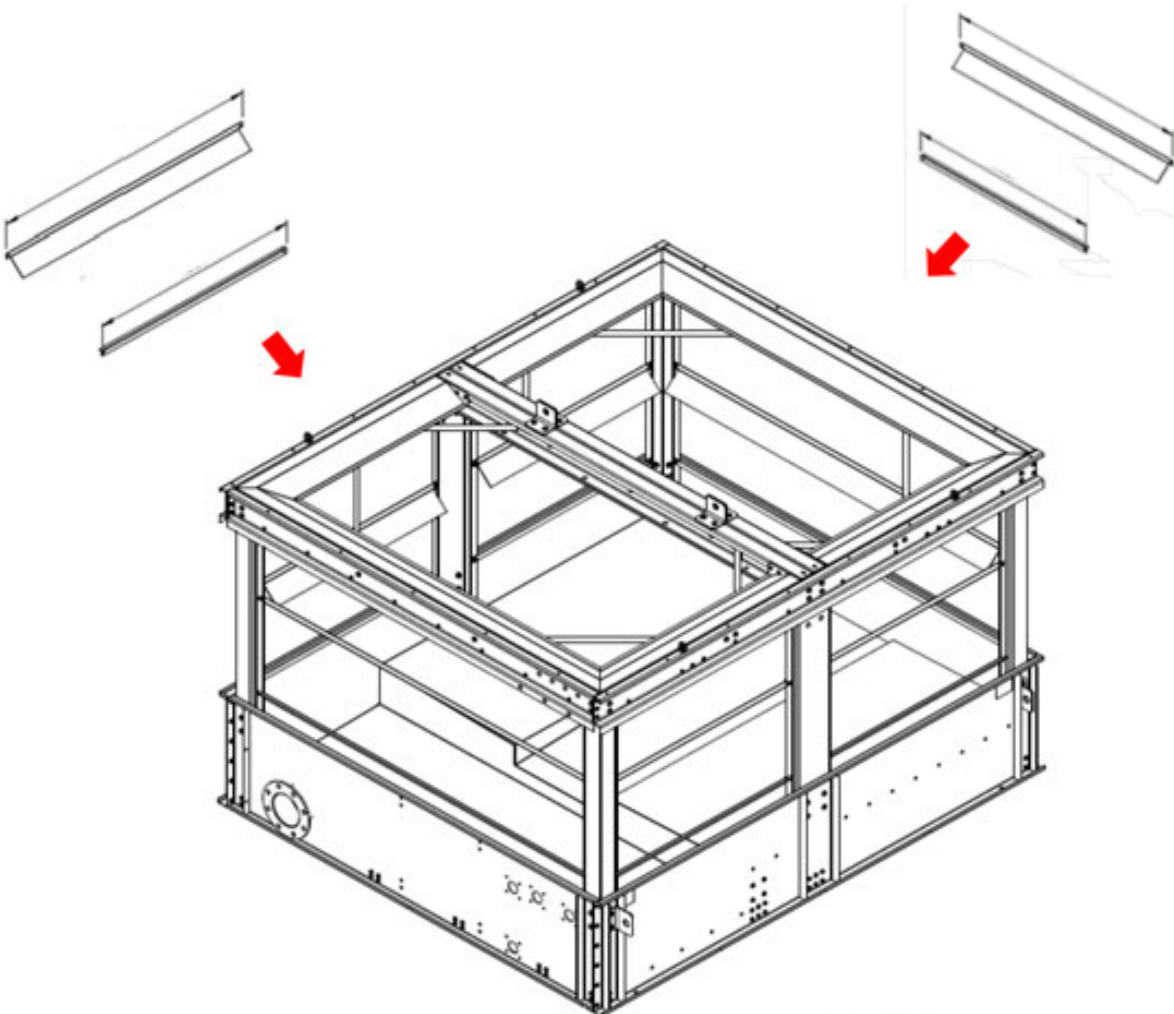
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

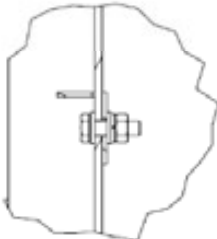
Step 1: Move Basin to install area for prepare to assembly pump support



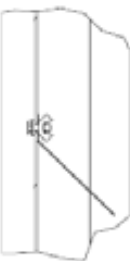
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 2 : Water Deflect Assembly





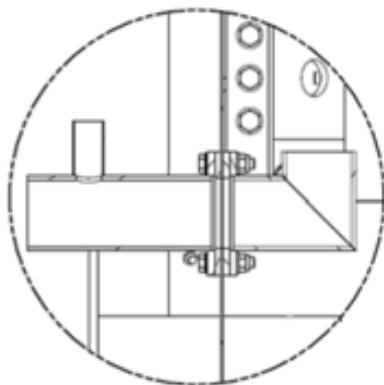
HEX BOLT
M6x1.25x20L
HEX LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER
M6



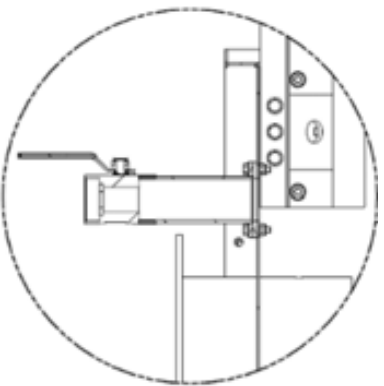
HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

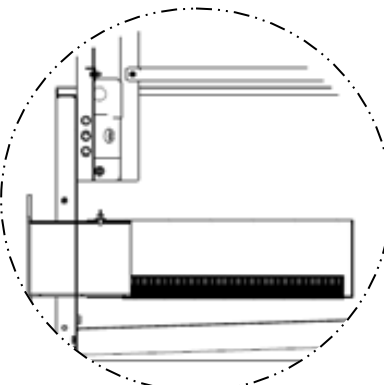
Step 3 : Piping and Valve Assembly



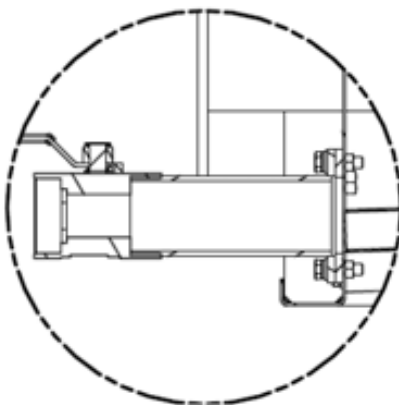
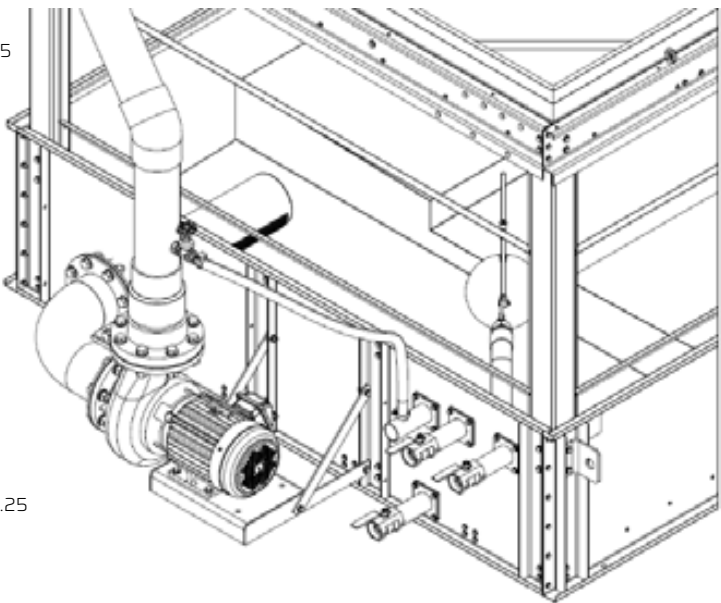
PIPE OVER FLOW
BOLT M8x1.25x40L
NR GASKET
WASHER FOR M8
HEX.LOCK NUT M8x1.25



BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8x1.25



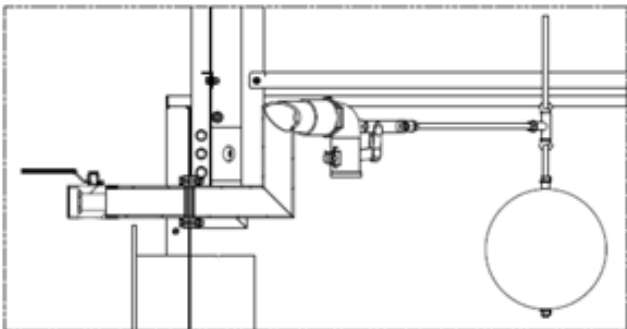
PIPE WITH STRAINER
WING SCREW - M8 x 12
WASHER



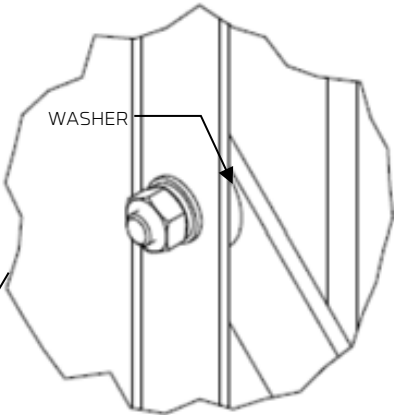
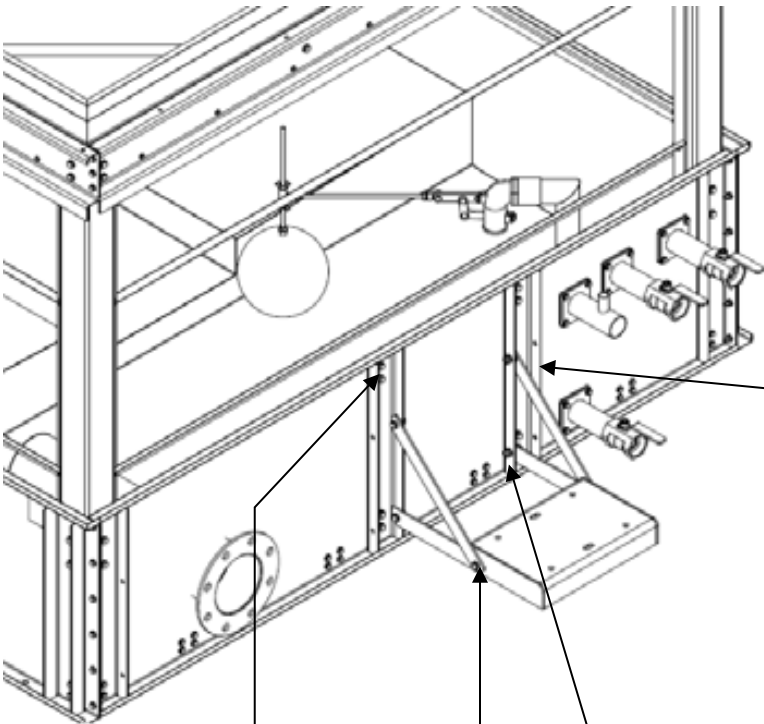
BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8x1.25

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

BALL VALVE
FLOAT VALVE
WASHER FOR M8
NR GASKET
PIPE MAKE UP WATER 2"
FLOAT VALVE
BOLT M8x1.25x30L
SPRING WASHER M8
HEX.LOCK NUT M8x1.25

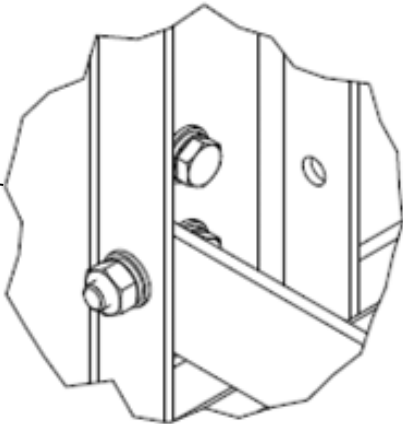


Step 4 : Water Pump Base Assembly

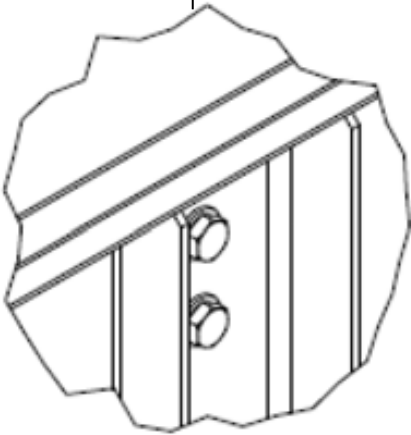


WASHER

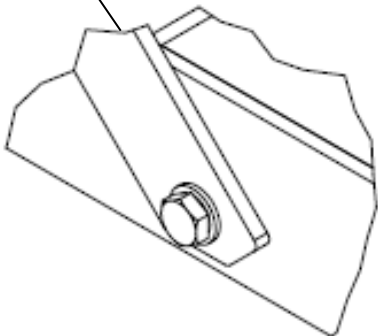
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



HEX.BOLT M10x1.5x30L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



HEX.BOLT M10x1.5x25L
WASHER FOR M10
HEX.NUT LOCK M10x1.5



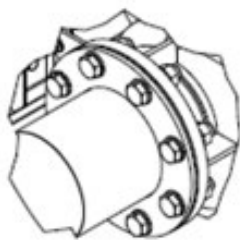
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

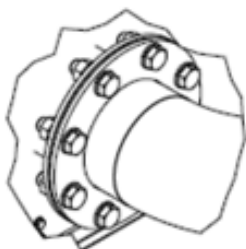
Step 5 : Water Pump pipe Assembly



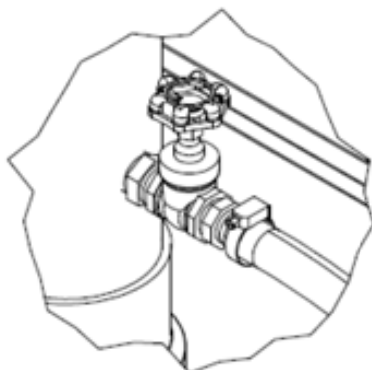
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x45L



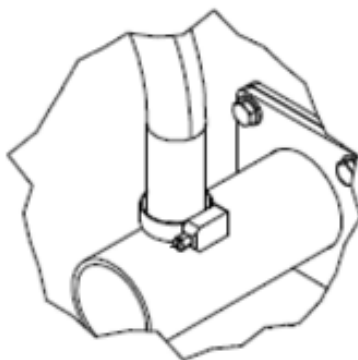
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L



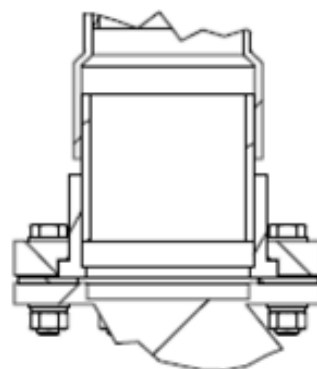
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



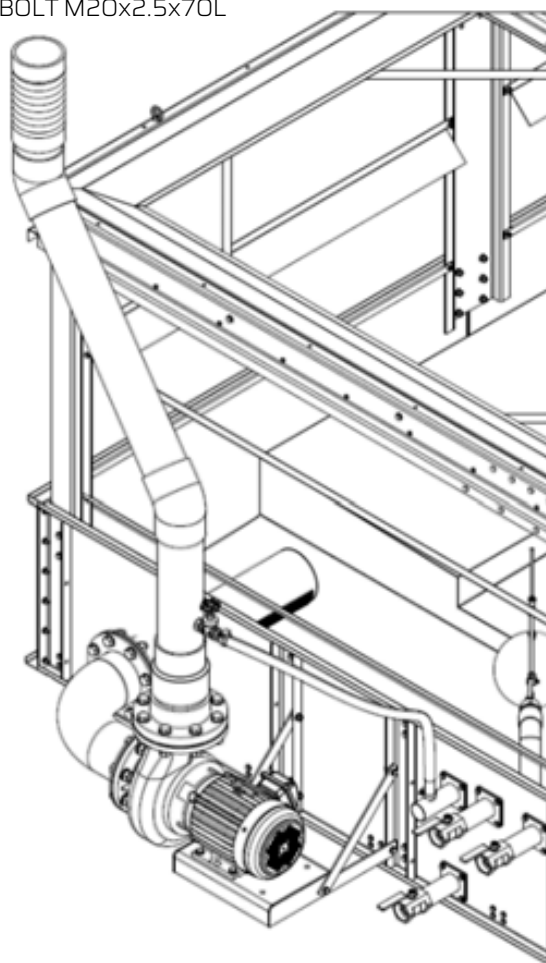
HOSE CLAMP 1"
TEXTILE HOSE 1"



HOSE CLAMP 1"
TEXTILE HOSE 1"

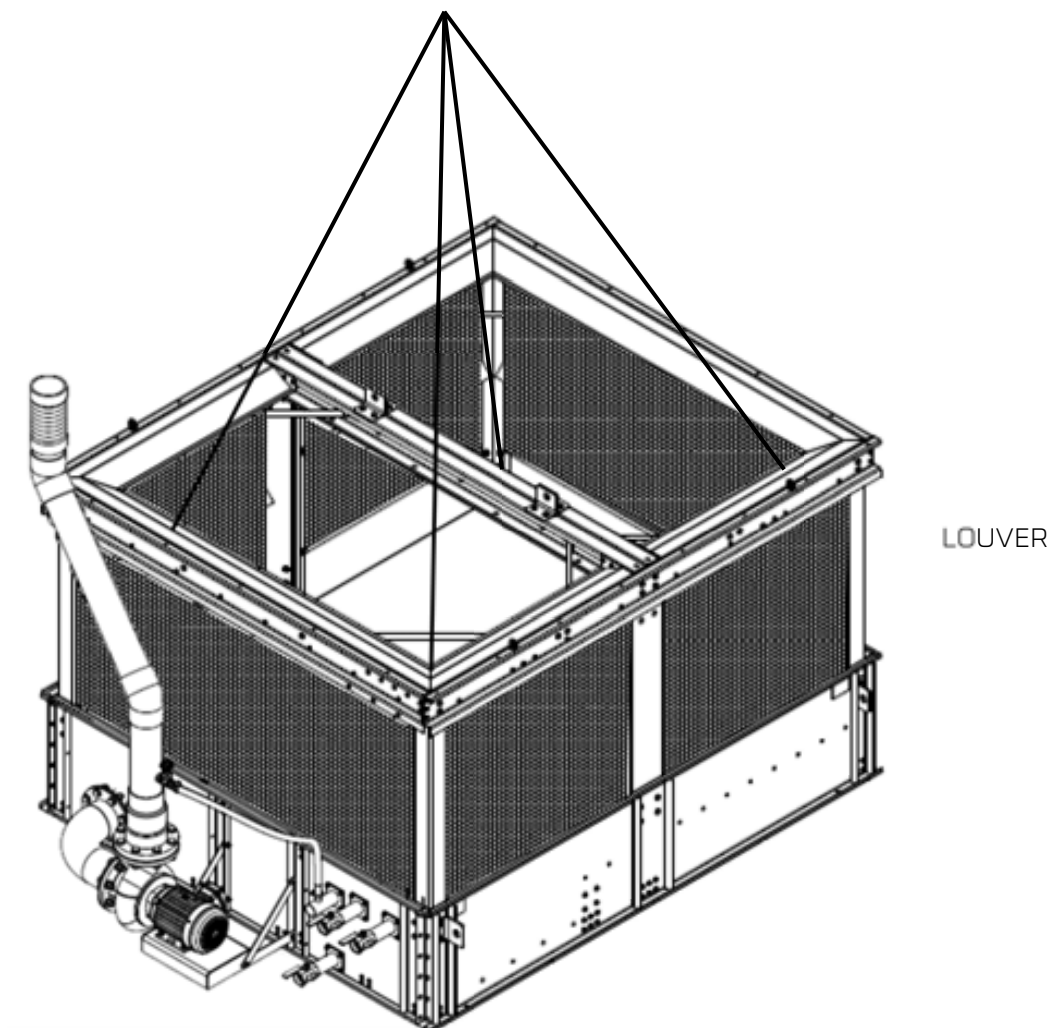


HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

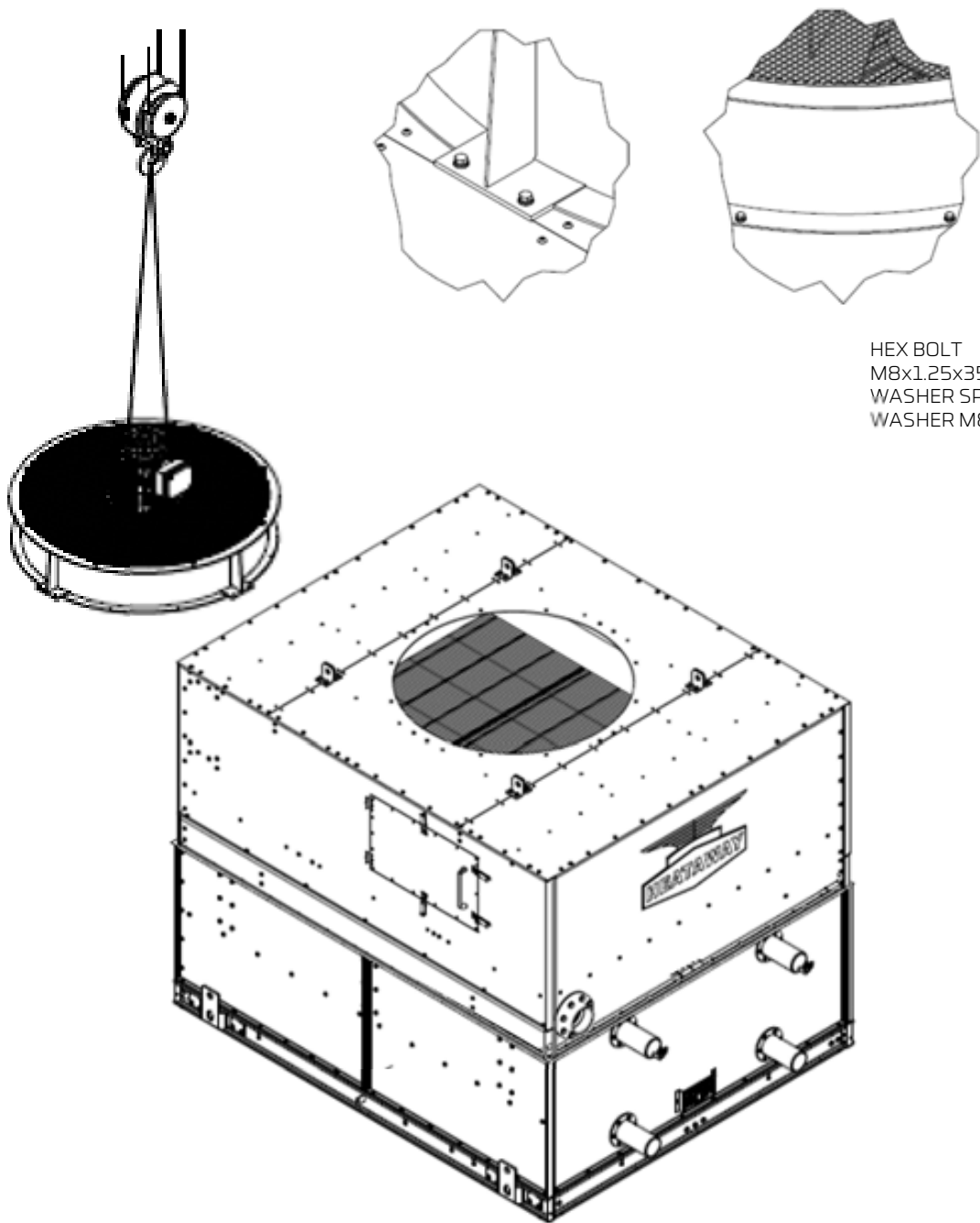


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 6 : Move Assembled Basin to Position

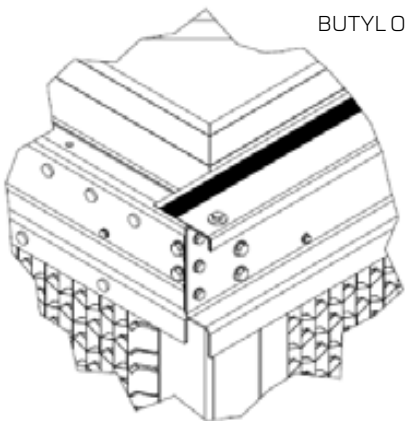
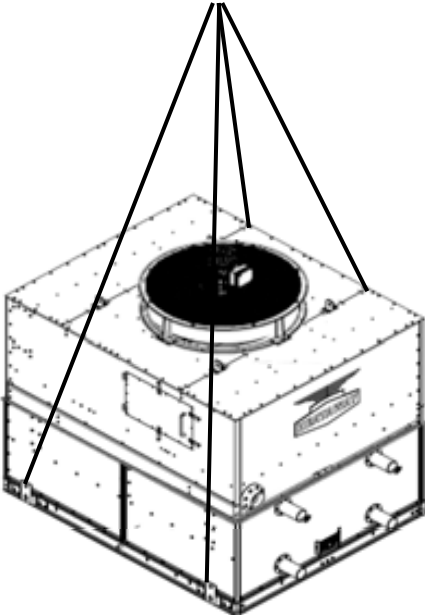


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

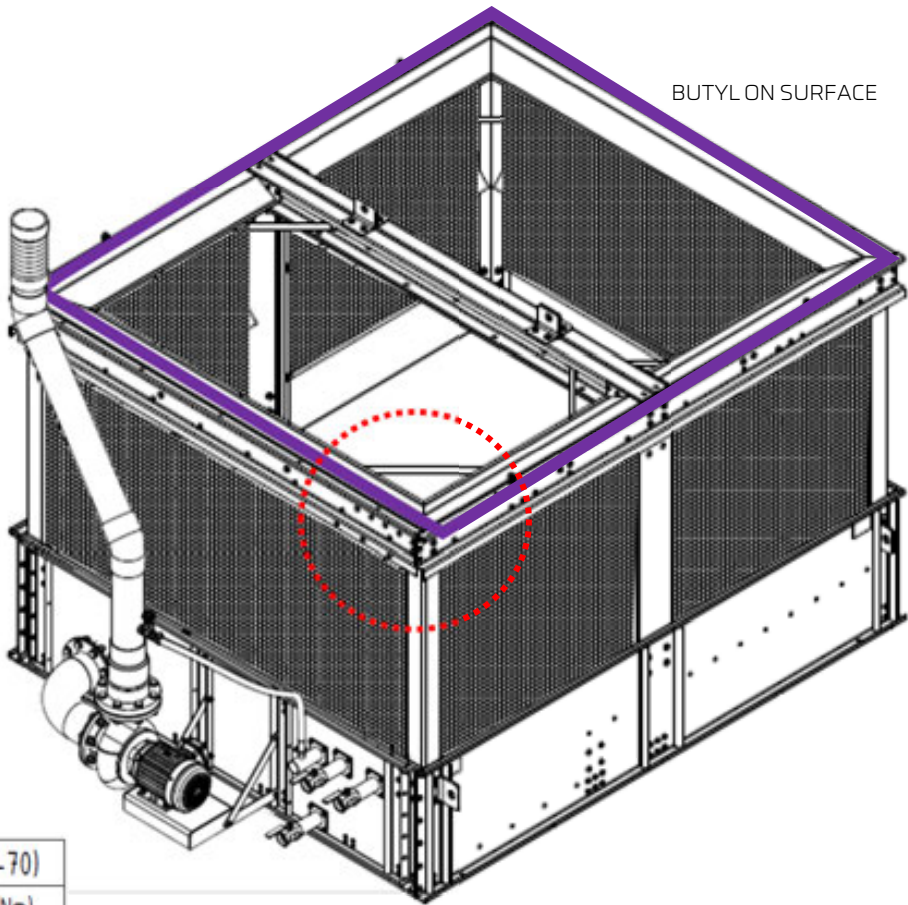


HEX BOLT
 M8x1.25x35L
 WASHER SPRING M8
 WASHER M8

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

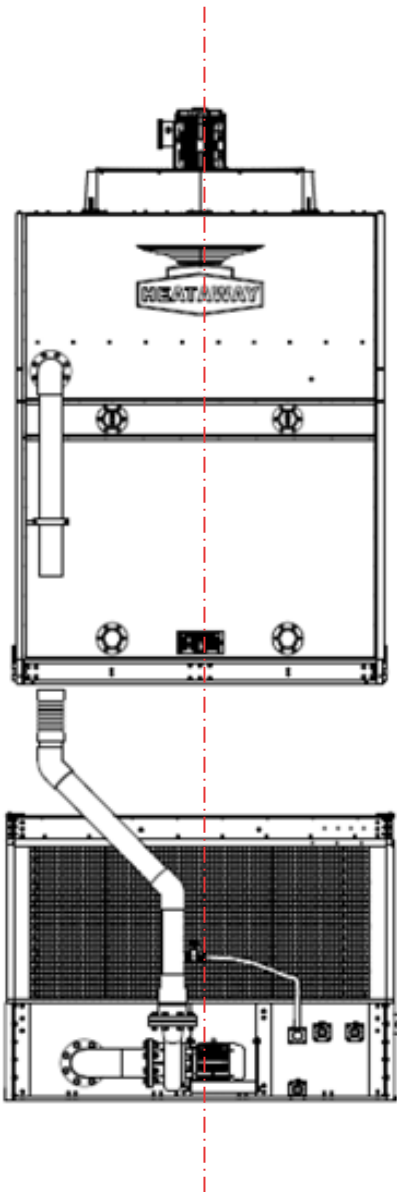


BUTYL ON SURFACE

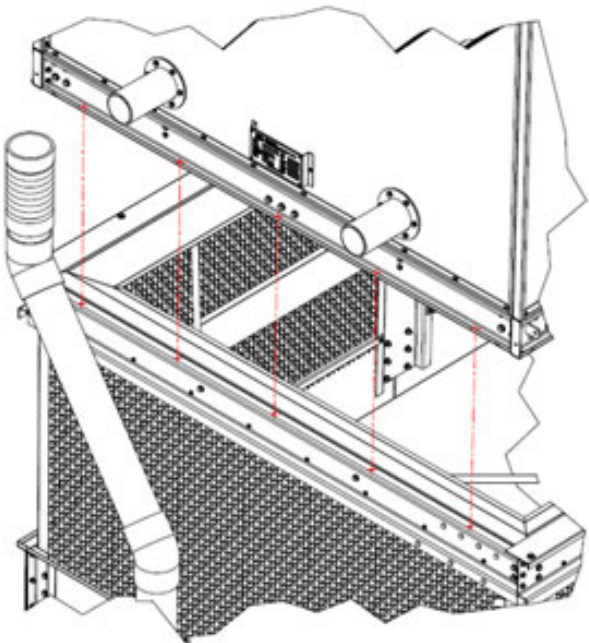


BUTYL ON SURFACE

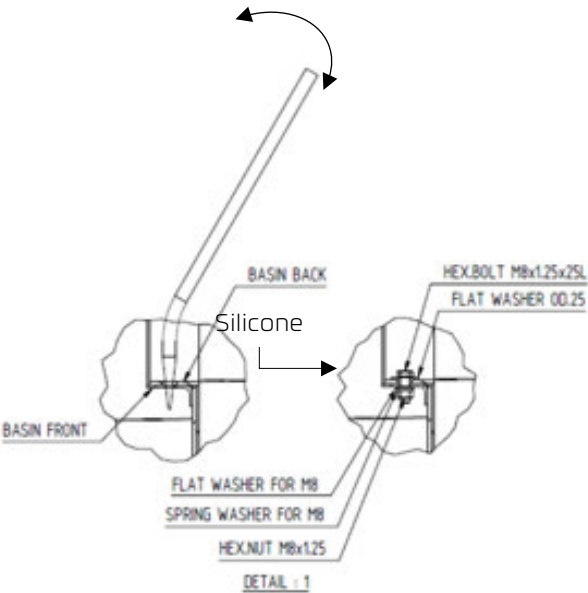
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



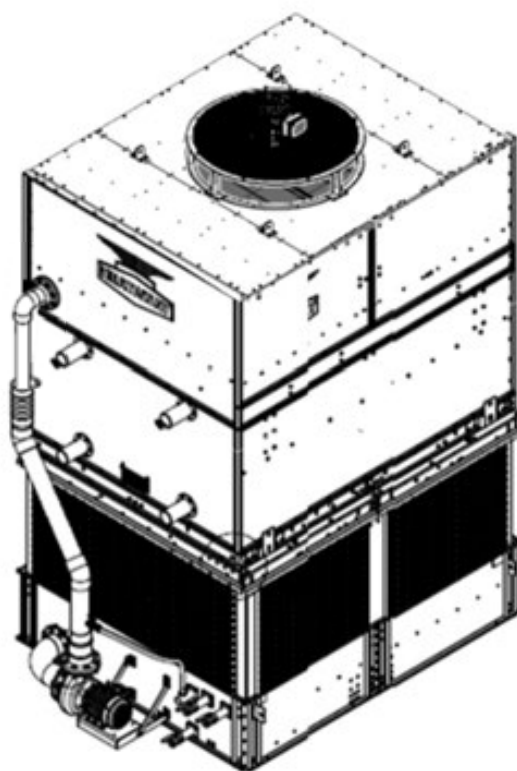
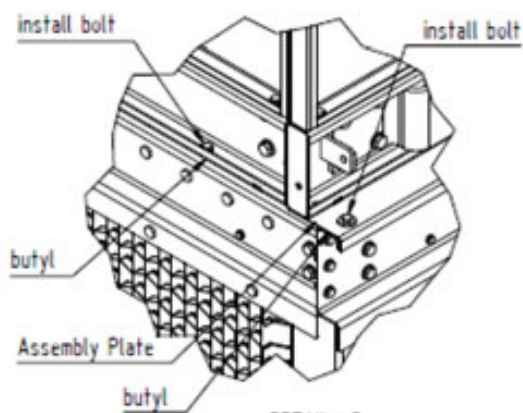
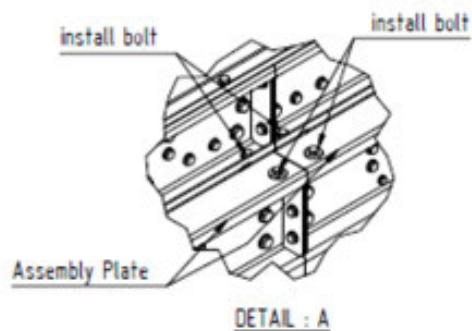
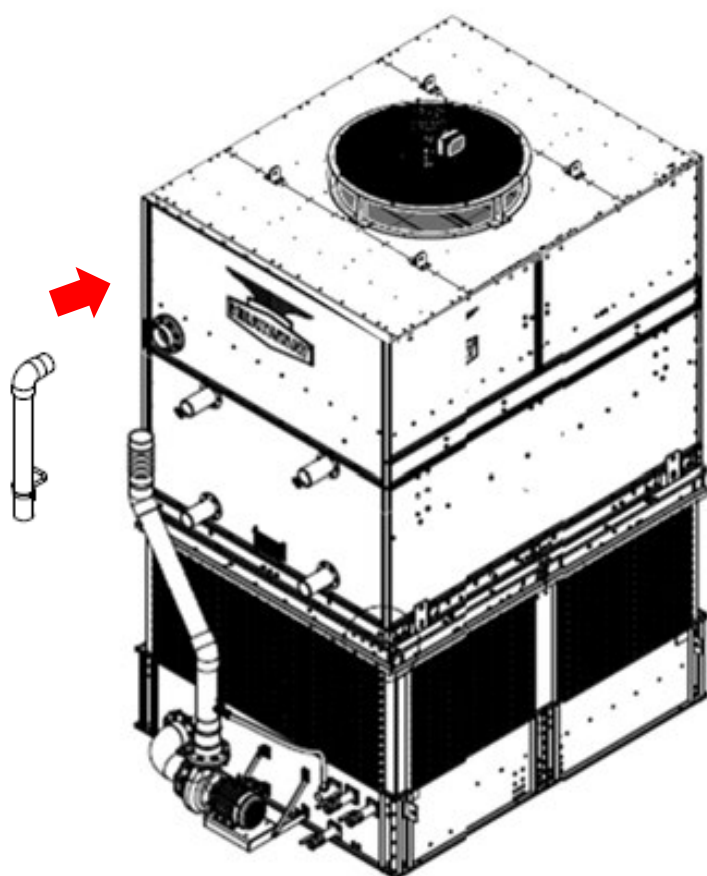
Set Upper section on BASIN Section by setting in middle of BASIN Section



Use rod guide for guide upper section and BASIN Section and make sure front side and back side are in position before assembly



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



TIGHTENING TORQUE (A2-70)

M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

7' X 12'

Model

EC9-0960-0712C-L

EC9-1000-0712C-S

EC9-1120-0712C-M

EC9-1200-0712C-L

EC9-1270-0712C-M

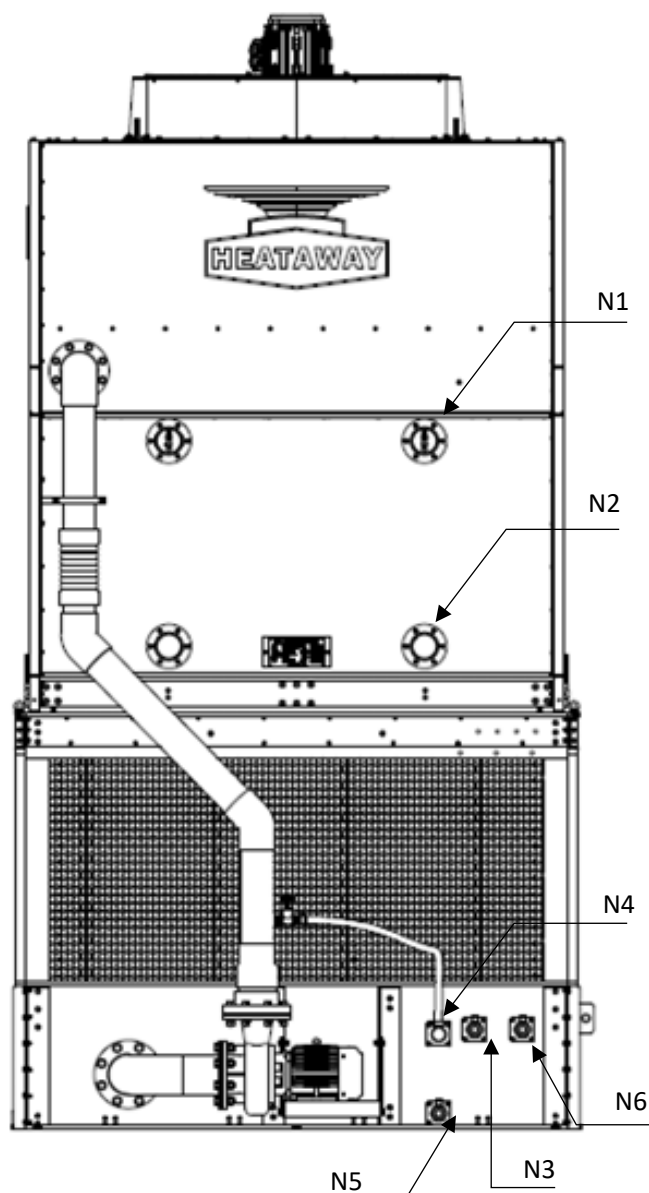
EC9-1320-0712C-M

EC9-1370-0712C-L

EC9-1410-0712C-L

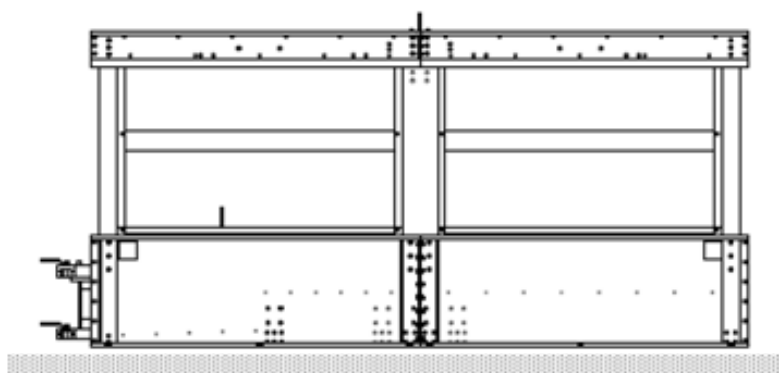
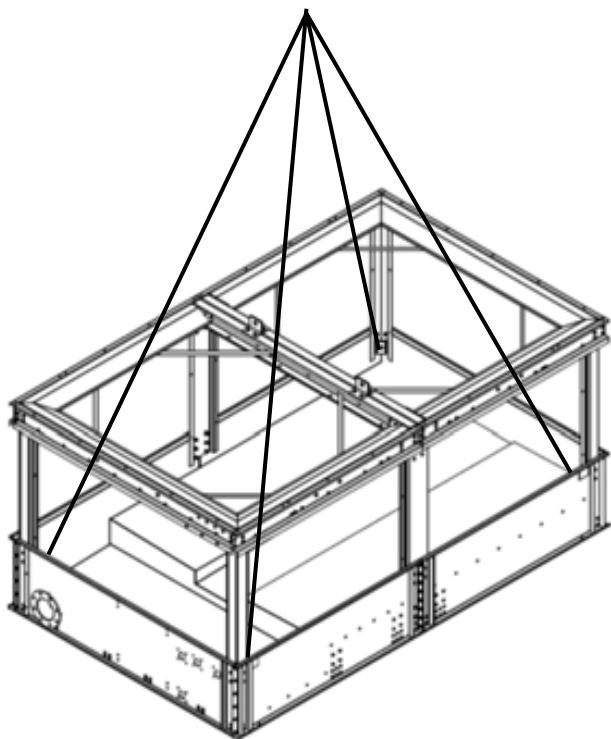


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PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Step 1: Move Basin to install area for prepare to assembly pump support



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 2 : Water Deflect Assembly

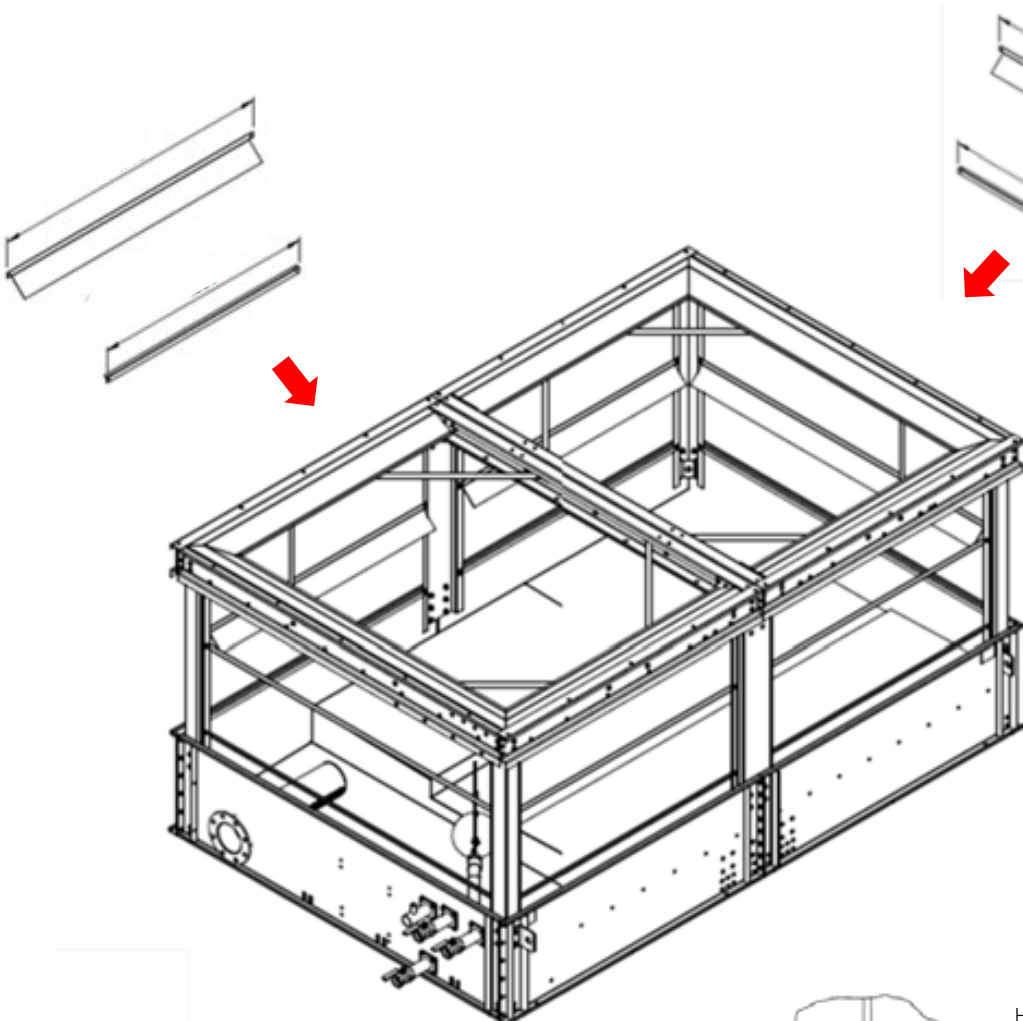


Diagram illustrating the assembly of the Water Deflect on the Basin Section. The assembly involves attaching the Water Deflect to the top and side rails of the basin frame using bolts and nuts.

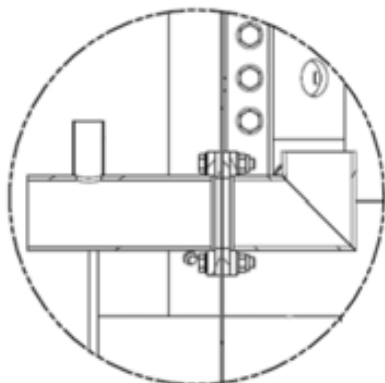
Assembly Components:

- HEX BOLT M6x1.25x20L
- HEX LOCK NUT M6x1.25
- WASHER M6
- SPRING WASHER M6
- HEX BOLT M8x1.25x20L
- WING NUT M8
- WASHER M8

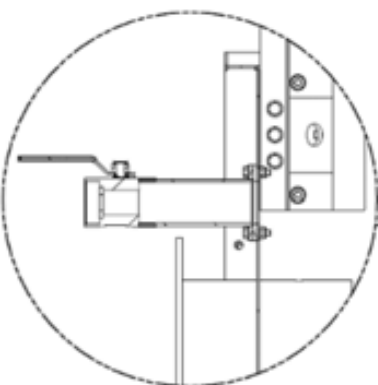
TIGHTENING TORQUE (A2-70)

M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

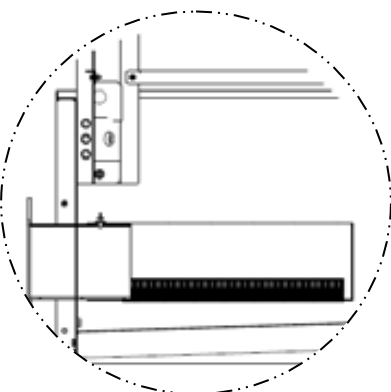
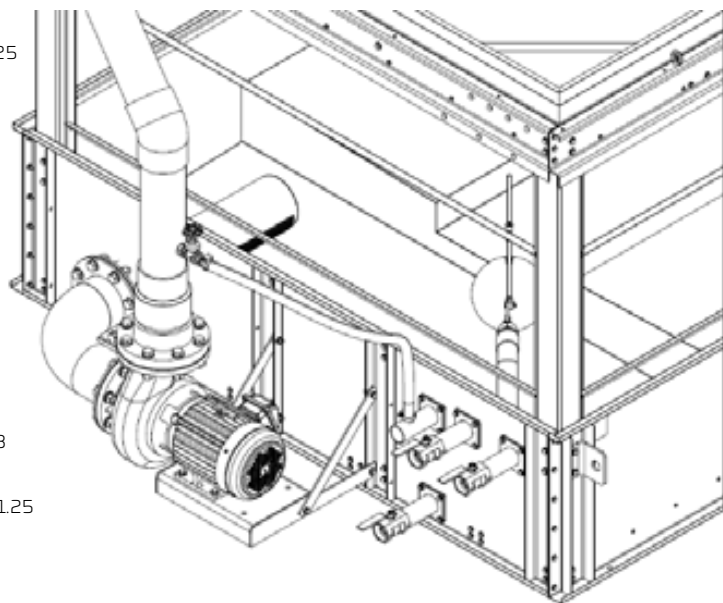
Step 3 : Piping and Valve Assembly



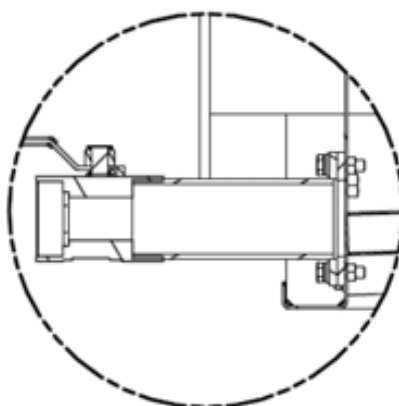
PIPE OVER FLOW
BOLT M8x1.25x40L
NR GASKET
WASHER FOR M8
HEX.LOCK NUT M8x1.25



BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8x1.25



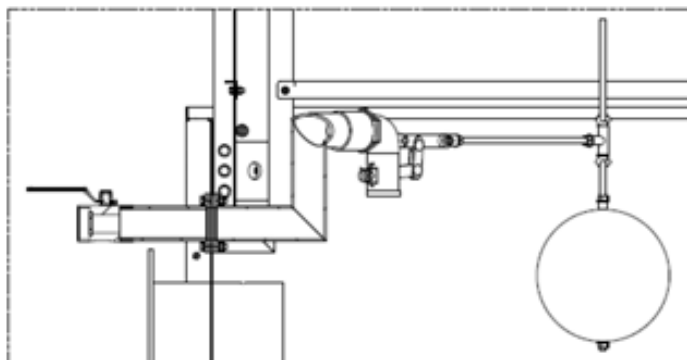
PIPE WITH STRAINER
WING SCREW - M8 x 12
WASHER



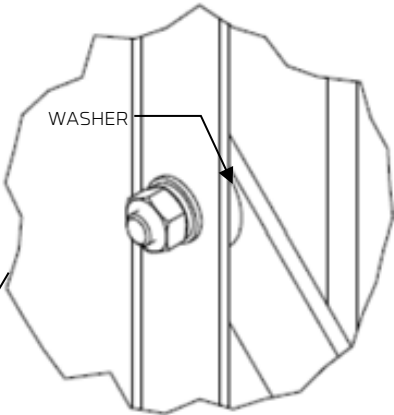
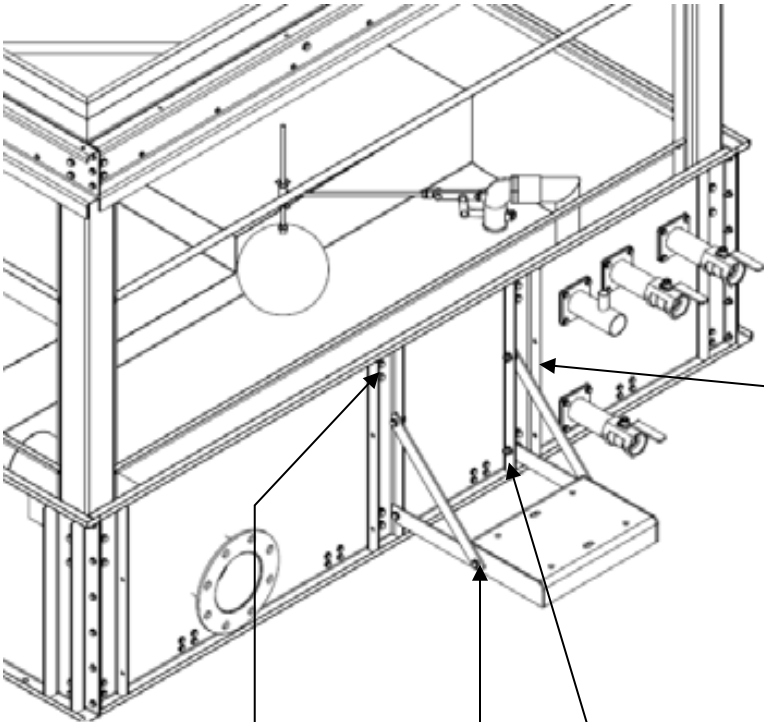
BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8x1.25

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

BALL VALVE
FLOAT VALVE
WASHER FOR M8
NR GASKET
PIPE MAKE UP WATER 2"
FLOAT VALVE
BOLT M8x1.25x30L
SPRING WASHER M8
HEX.LOCK NUT M8x1.25

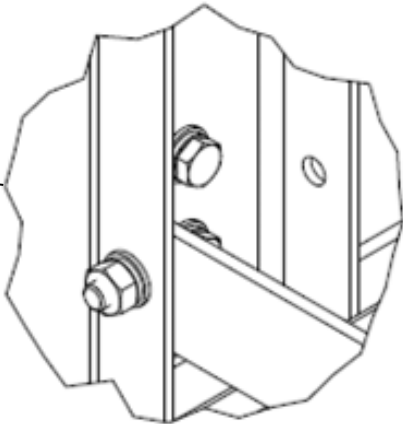


Step 4 : Water Pump Base Assembly

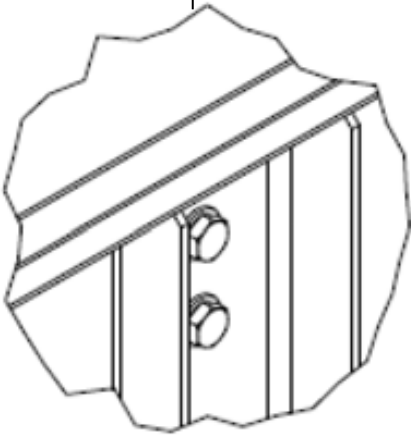


WASHER

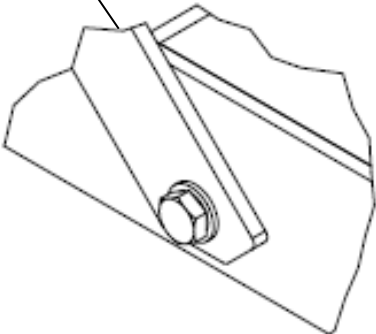
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



HEX.BOLT M10x1.5x30L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



HEX.BOLT M10x1.5x25L
WASHER FOR M10
HEX.NUT LOCK M10x1.5



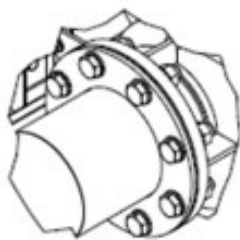
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

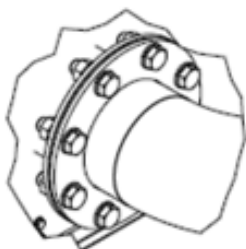
Step 5 : Water Pump pipe Assembly



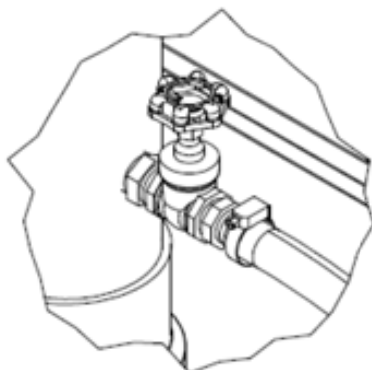
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x45L



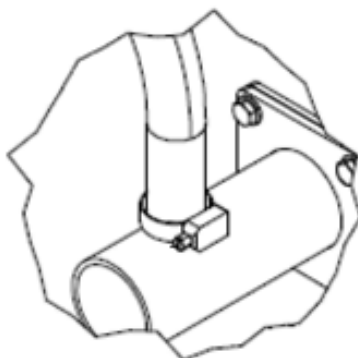
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L



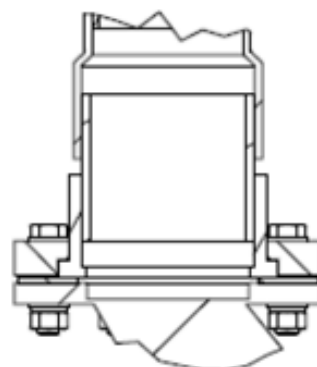
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



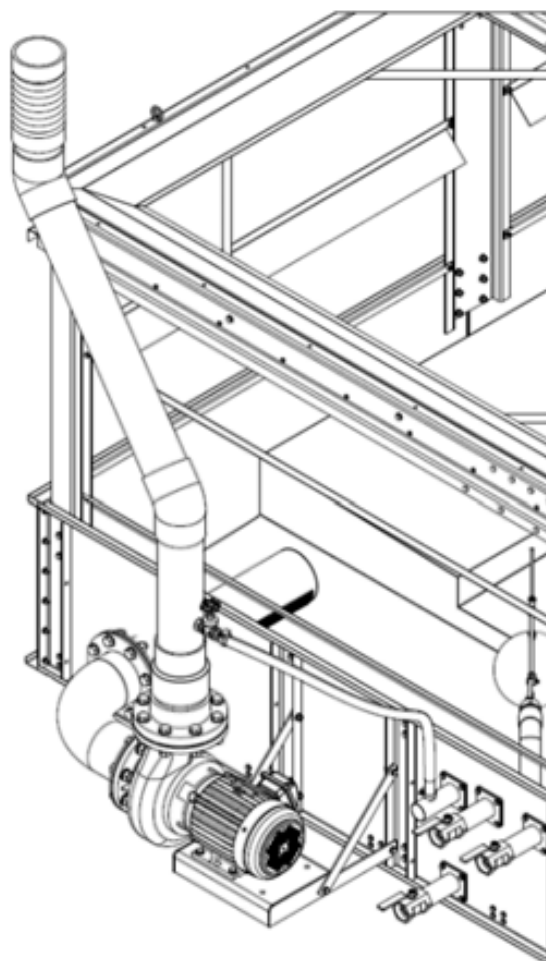
HOSE CLAMP 1"
TEXTILE HOSE 1"



HOSE CLAMP 1"
TEXTILE HOSE 1"

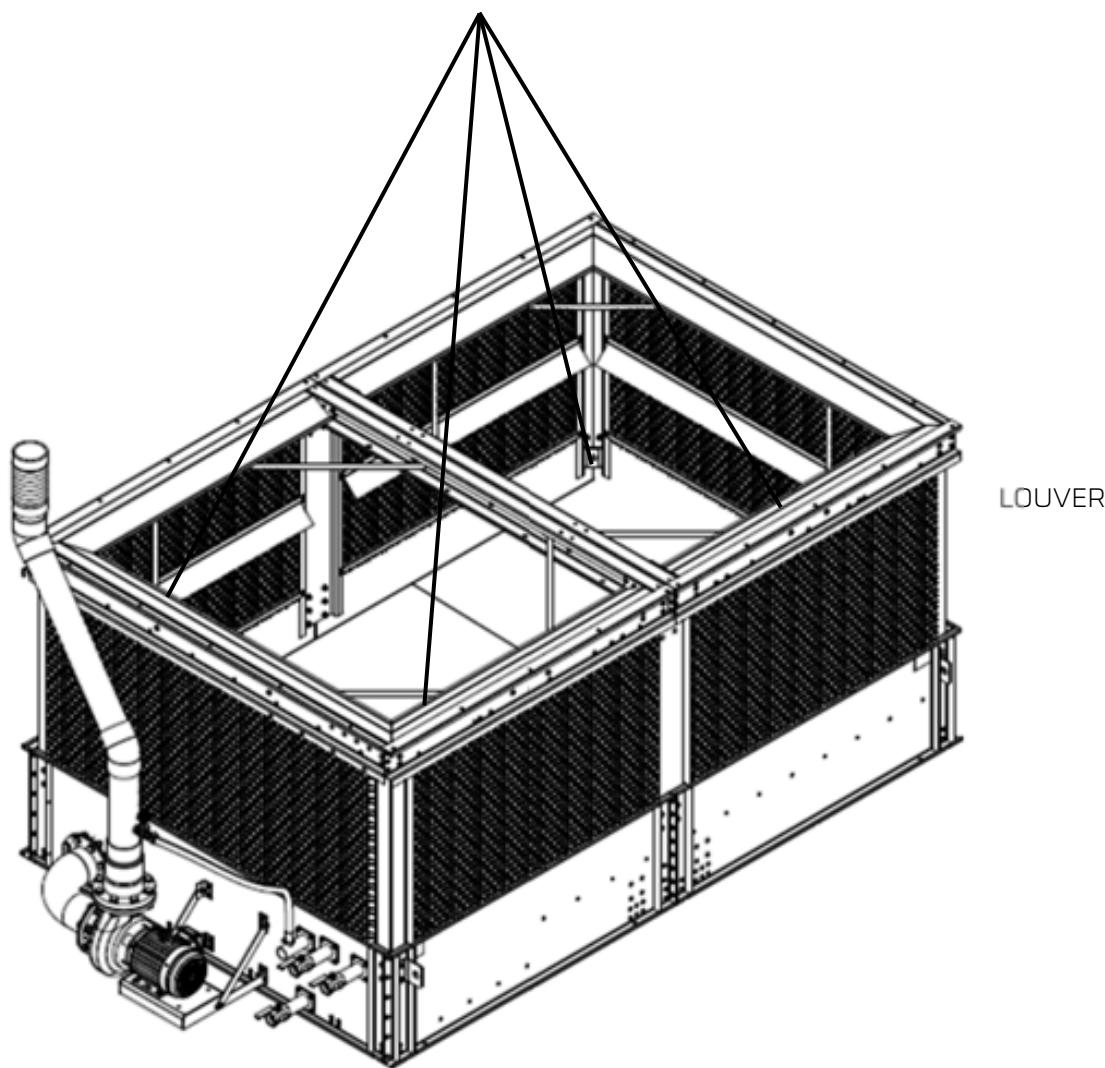


HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

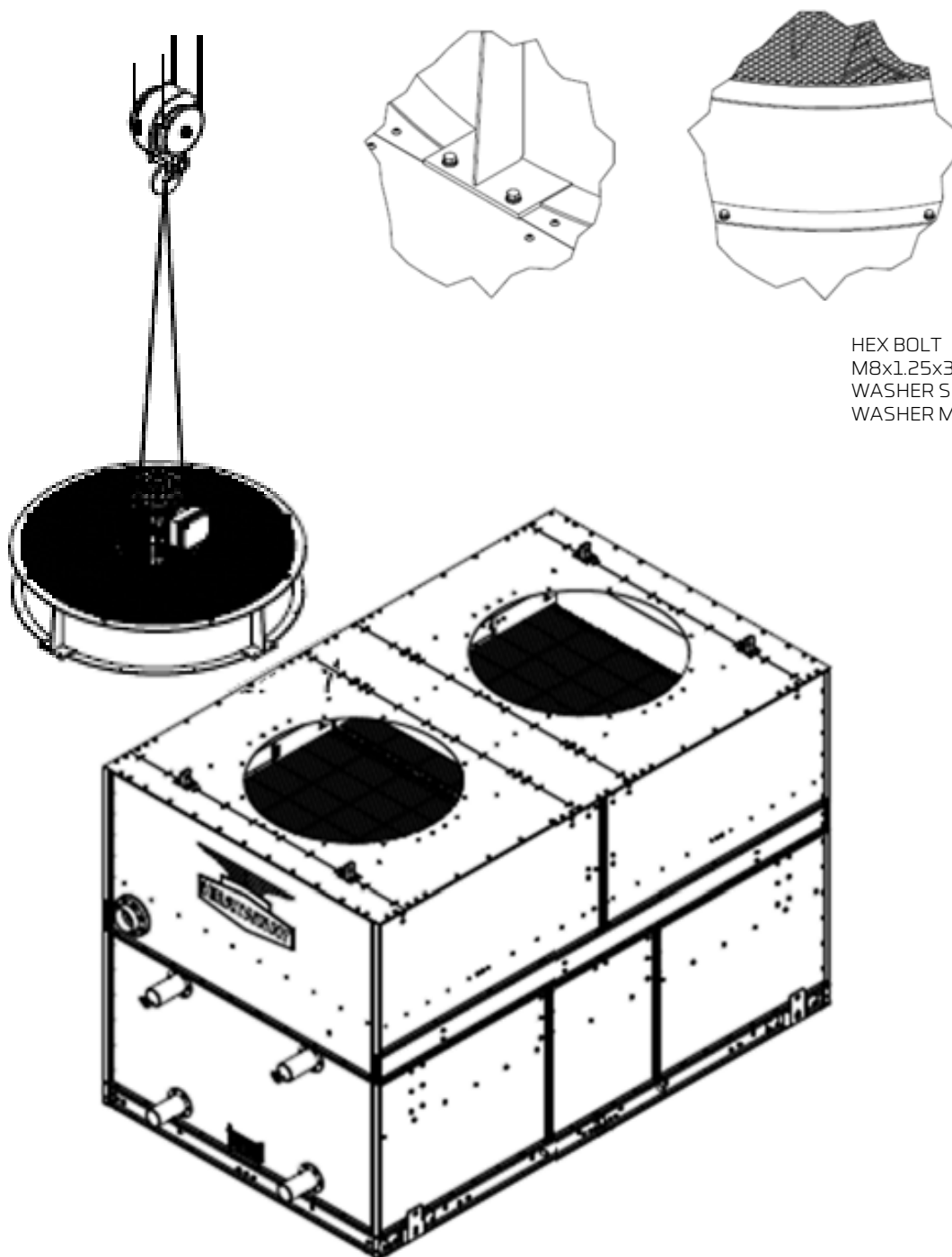


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

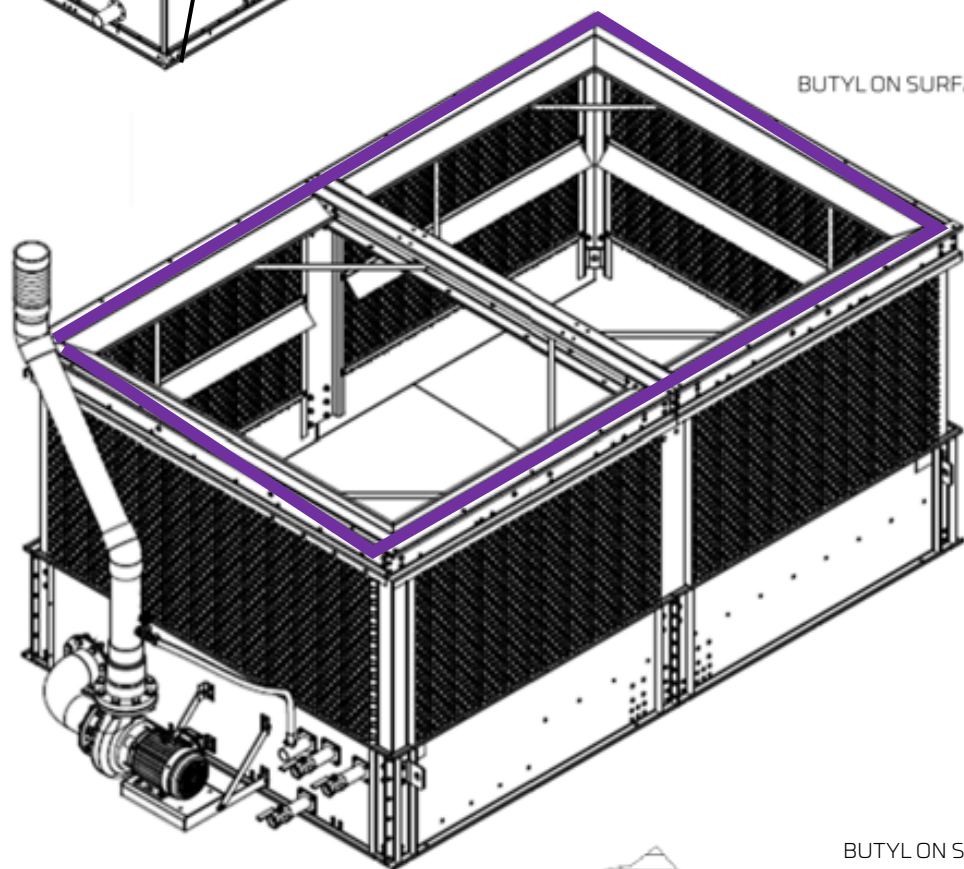
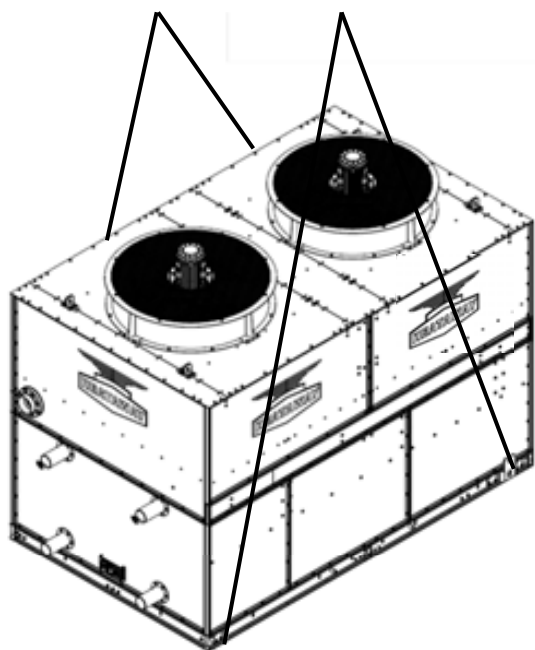
Step 6 : Move Assembled Basin to Position



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



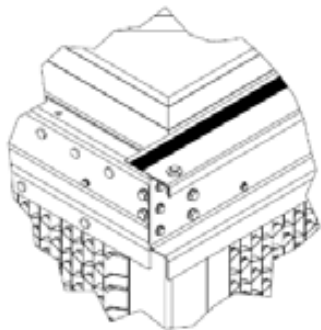
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

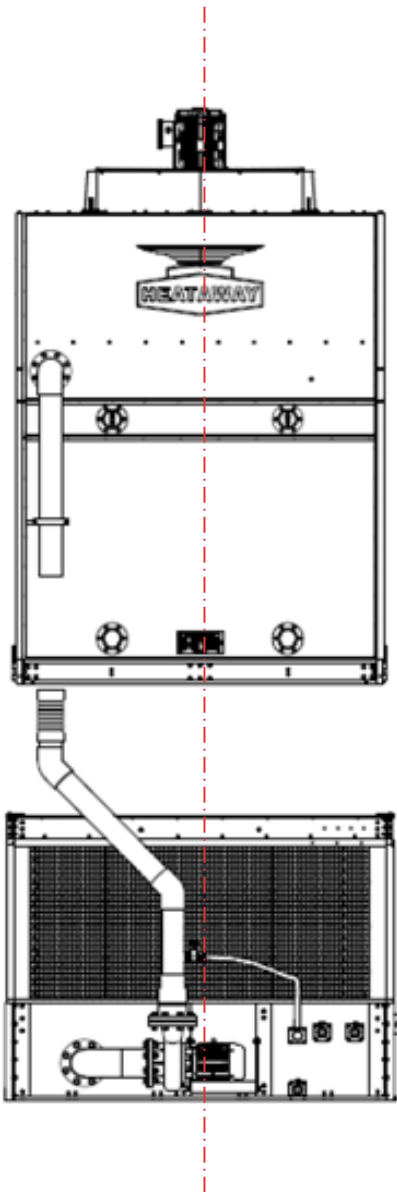


BUTYL ON SURFACE

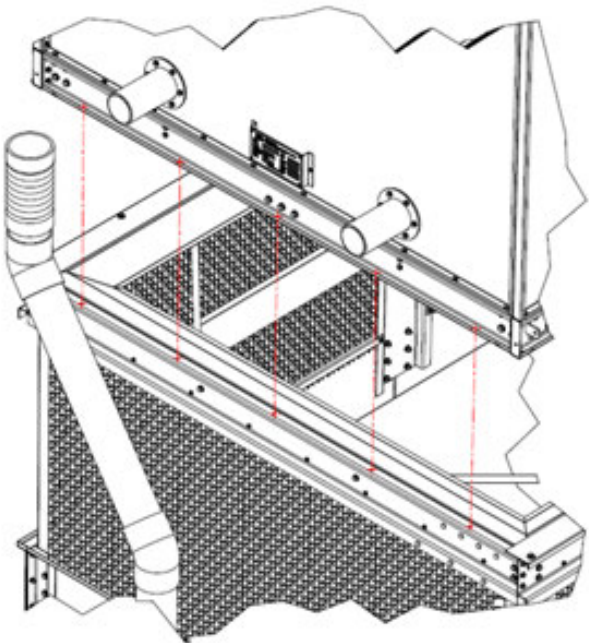
BUTYL ON SURFACE

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

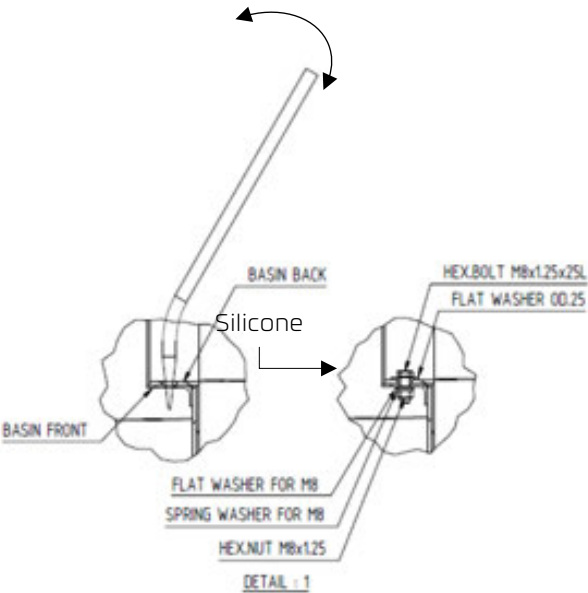




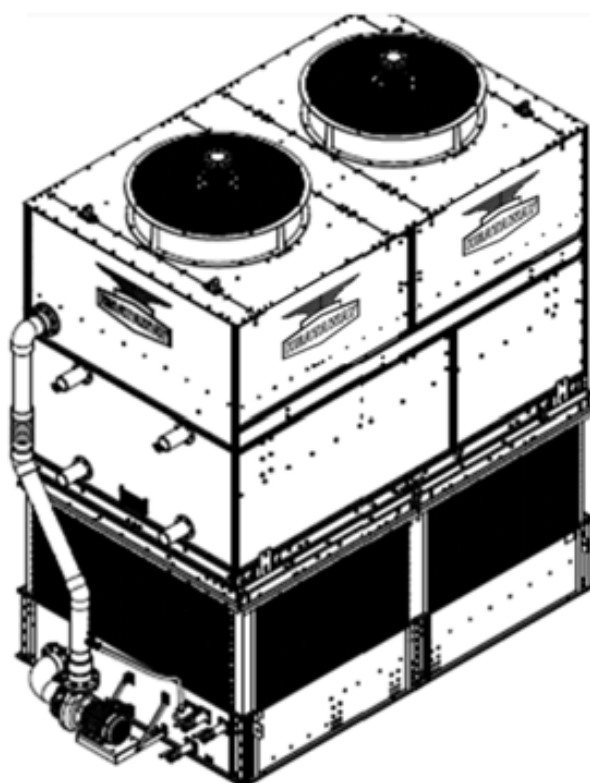
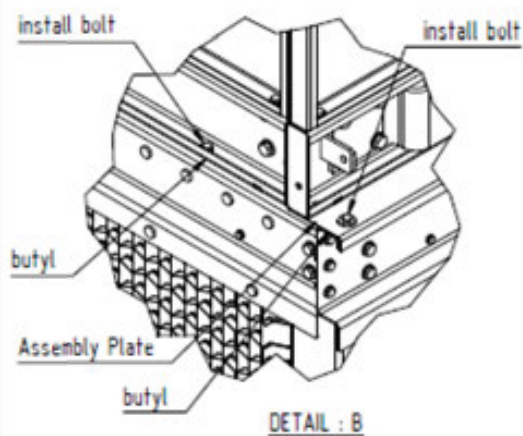
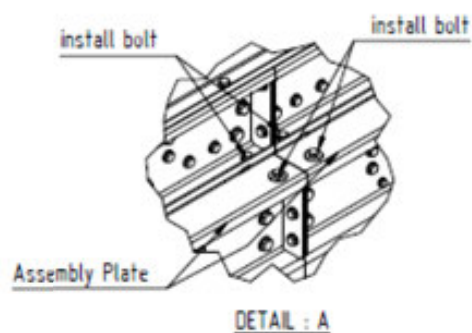
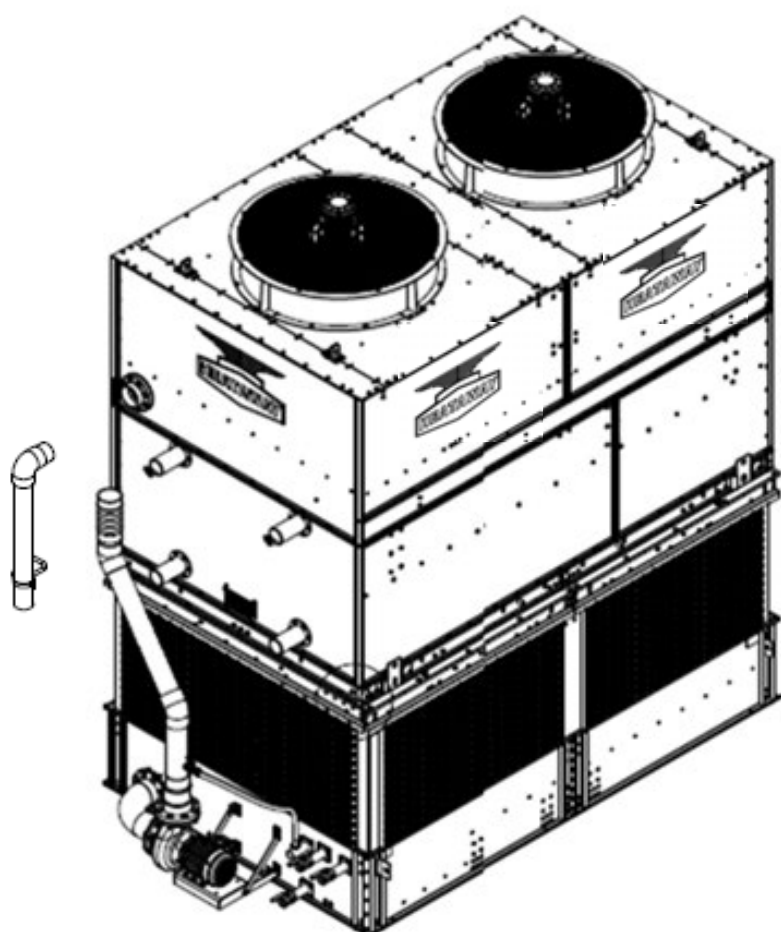
Set Upper section on BASIN Section by setting in middle of BASIN Section



Use rod guide for guide upper section and BASIN Section and make sure front side and back side are in position before assembly



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



TIGHTENING TORQUE (A2-70)

M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

7' X 18'

Model

EC9-1300-0718C-S

EC9-1520-0718C-L

EC9-1570-0718C-S

EC9-1750-0718C-M

EC9-1760-0718C-S

EC9-1990-0718C-M

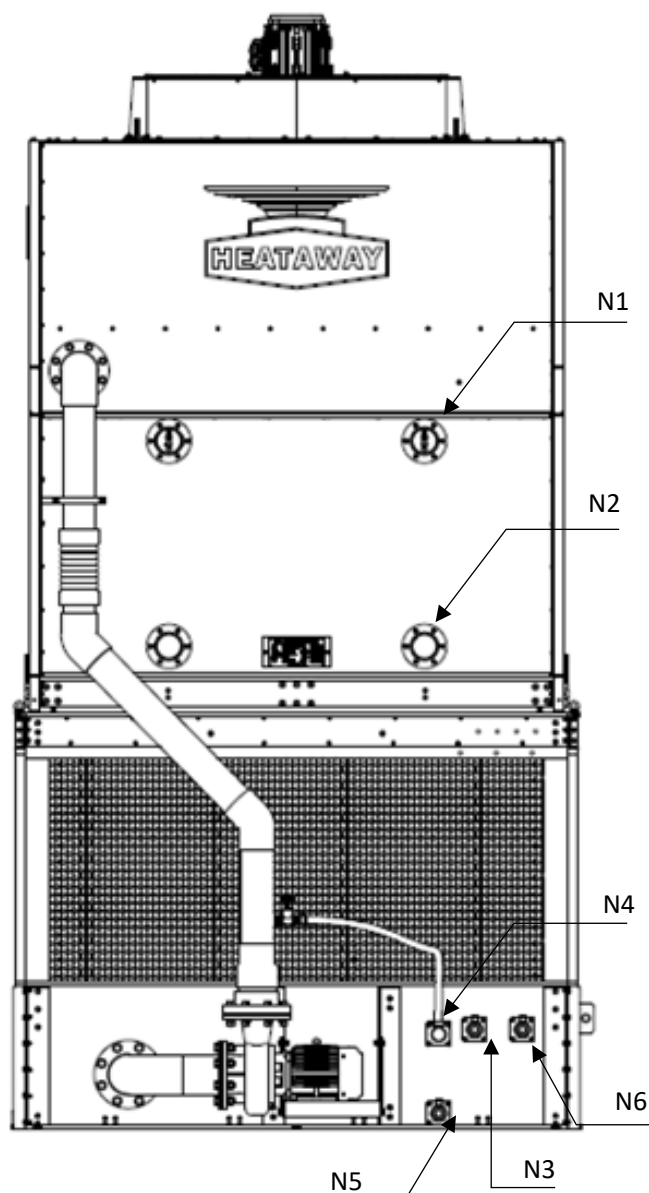
EC9-2060-0718C-M

EC9-2140-0718C-L

EC9-2200-0718C-L

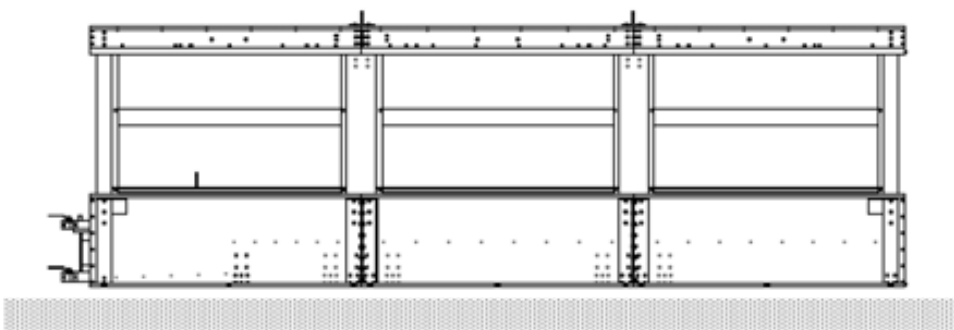
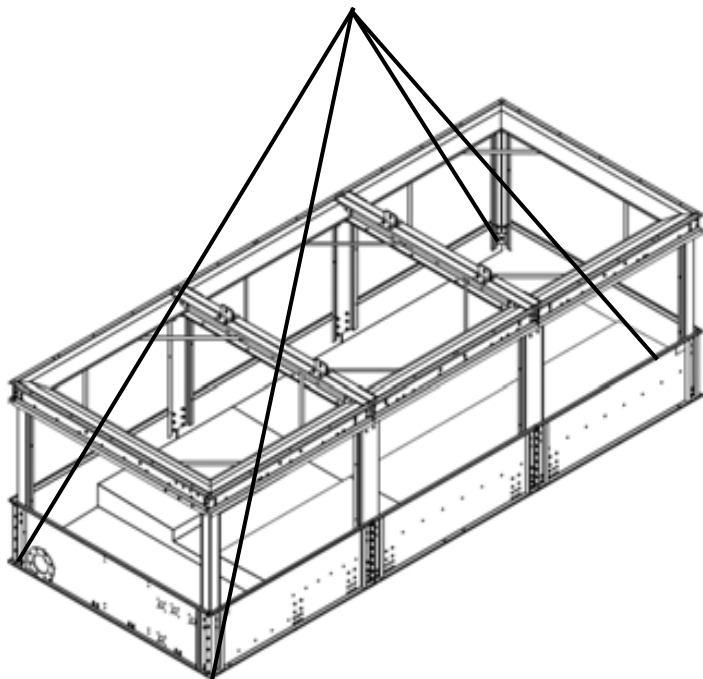


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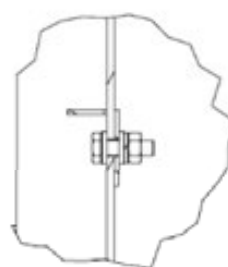
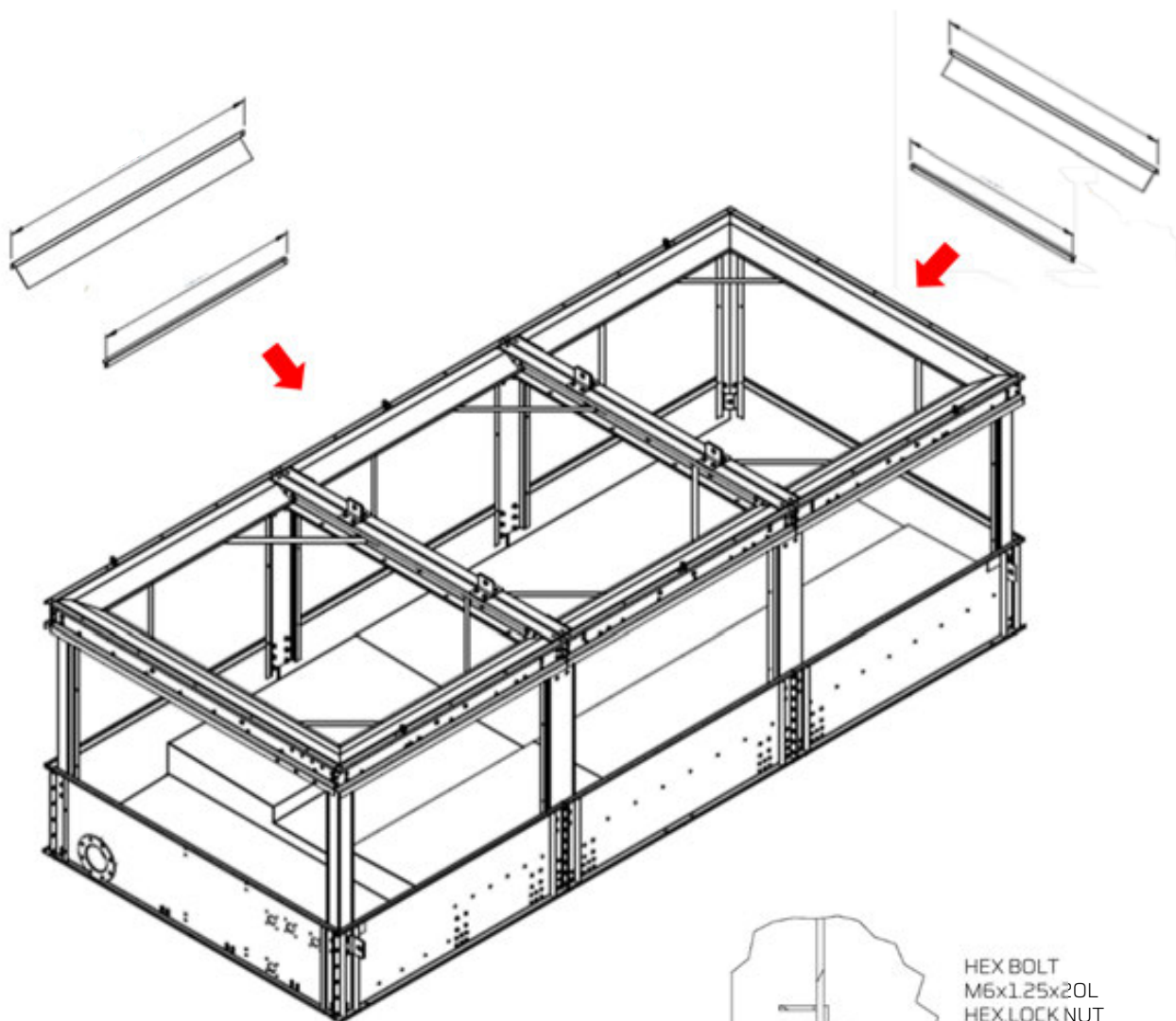
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Step 1: Move Basin to install area for prepare to assembly pump support



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 2 : Water Deflect Assembly



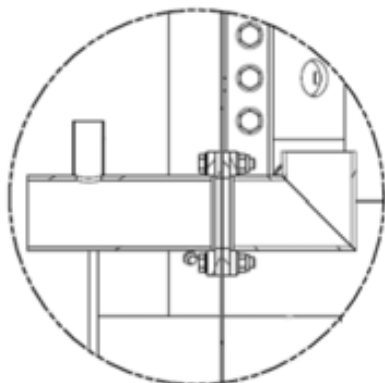
HEX BOLT
M6x1.25x20L
HEX LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6



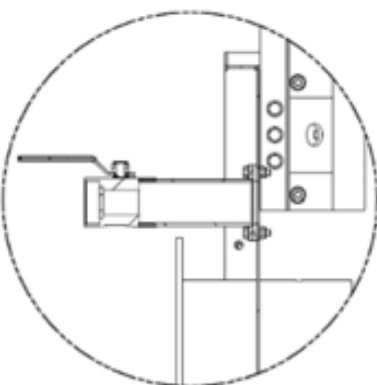
HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

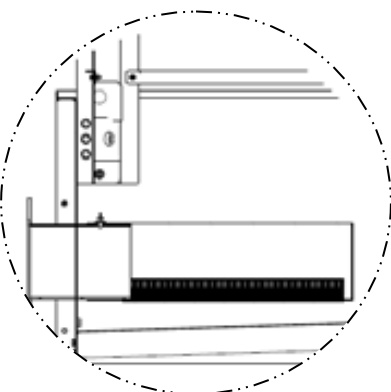
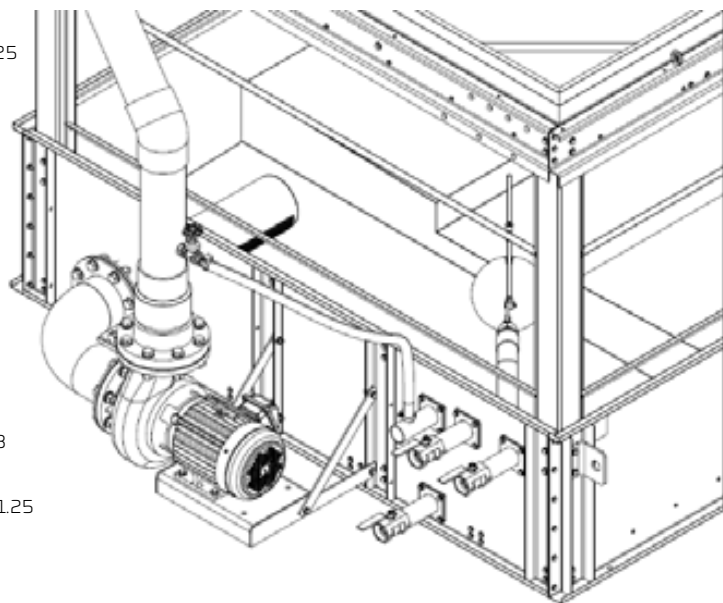
Step 3 : Piping and Valve Assembly



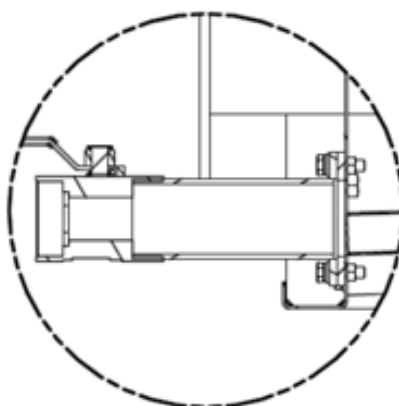
PIPE OVER FLOW
BOLT M8x1.25x40L
NR GASKET
WASHER FOR M8
HEX.LOCK NUT M8x1.25



BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8x1.25



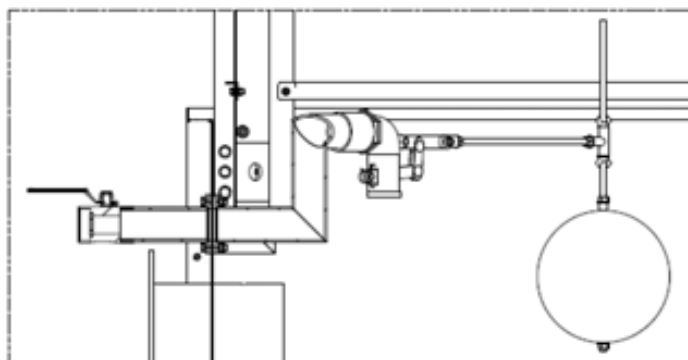
PIPE WITH STRAINER
WING SCREW - M8 x 12
WASHER



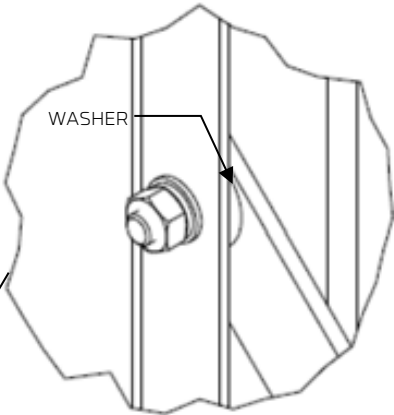
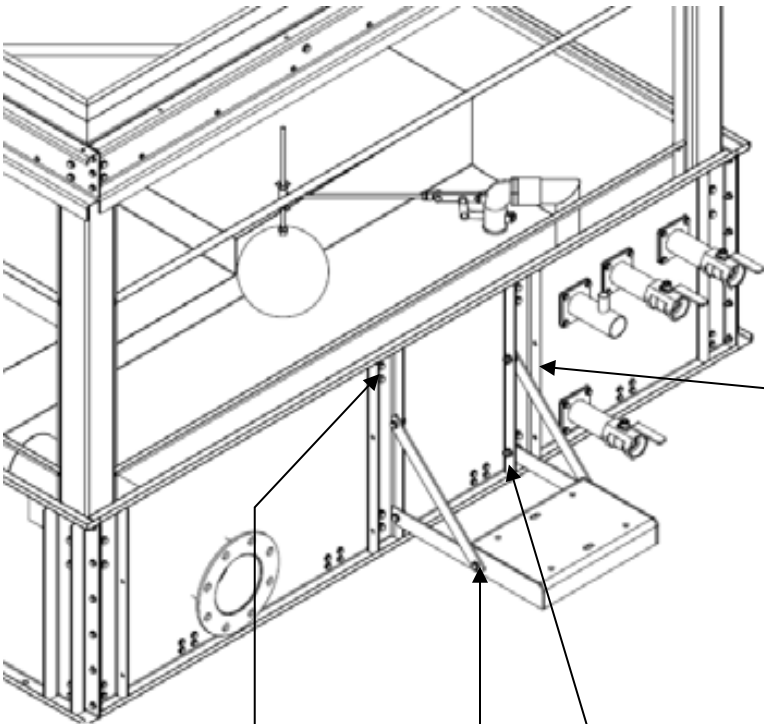
BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8x1.25

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

BALL VALVE
FLOAT VALVE
WASHER FOR M8
NR GASKET
PIPE MAKE UP WATER 2"
FLOAT VALVE
BOLT M8x1.25x30L
SPRING WASHER M8
HEX.LOCK NUT M8x1.25

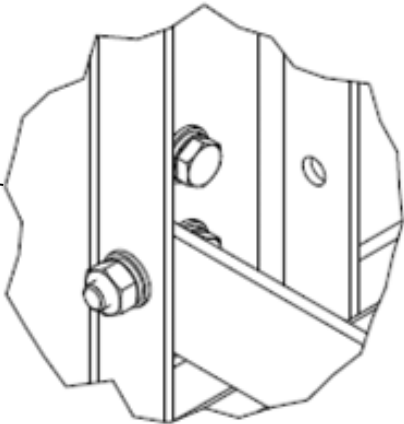


Step 4 : Water Pump Base Assembly

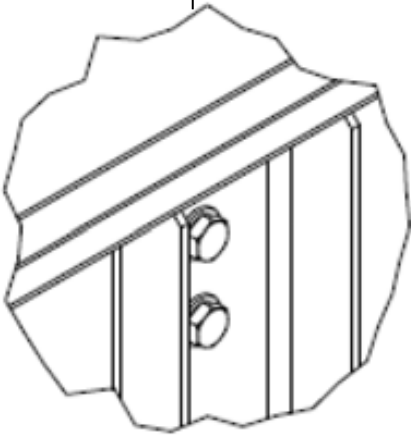


WASHER

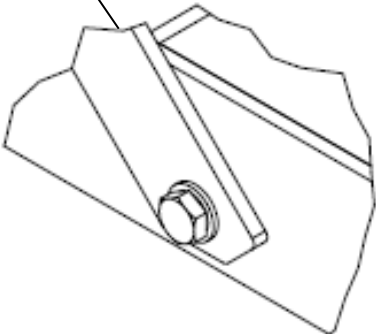
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



HEX.BOLT M10x1.5x30L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



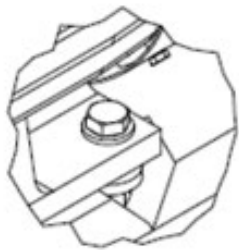
HEX.BOLT M10x1.5x25L
WASHER FOR M10
HEX.NUT LOCK M10x1.5



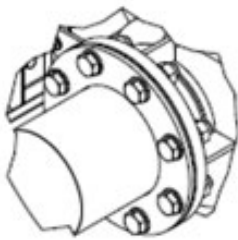
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

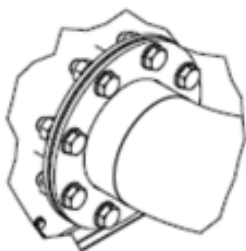
Step 5 : Water Pump pipe Assembly



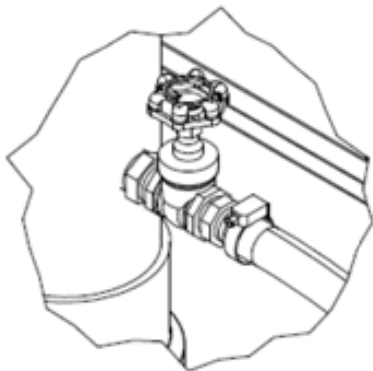
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x45L



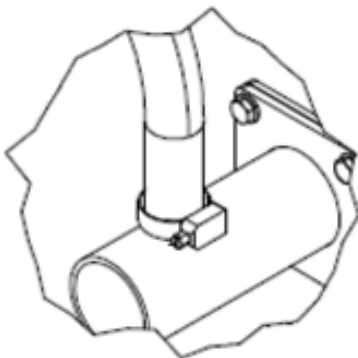
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L



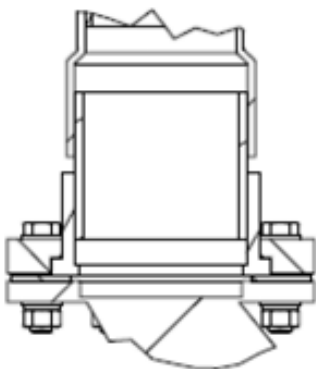
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



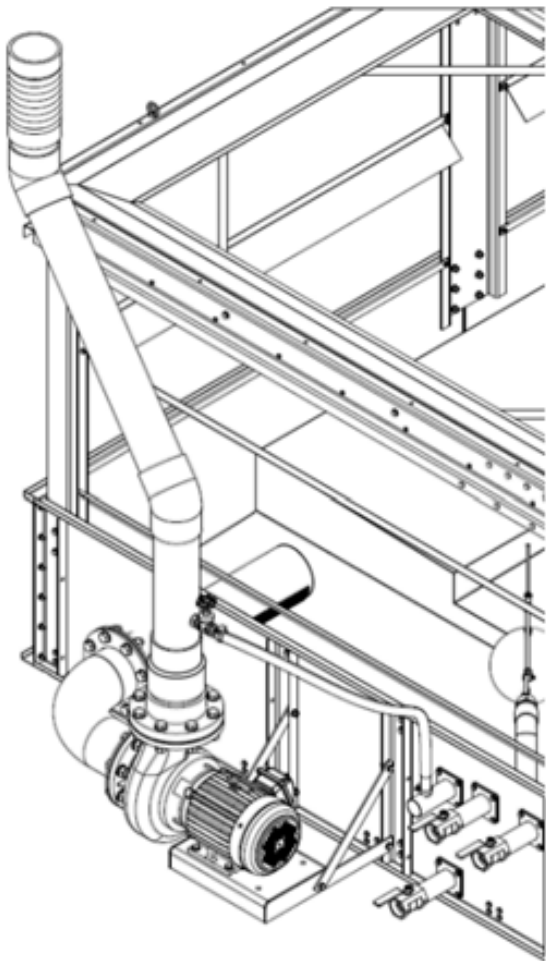
HOSE CLAMP 1"
TEXTILE HOSE 1"



HOSE CLAMP 1"
TEXTILE HOSE 1"

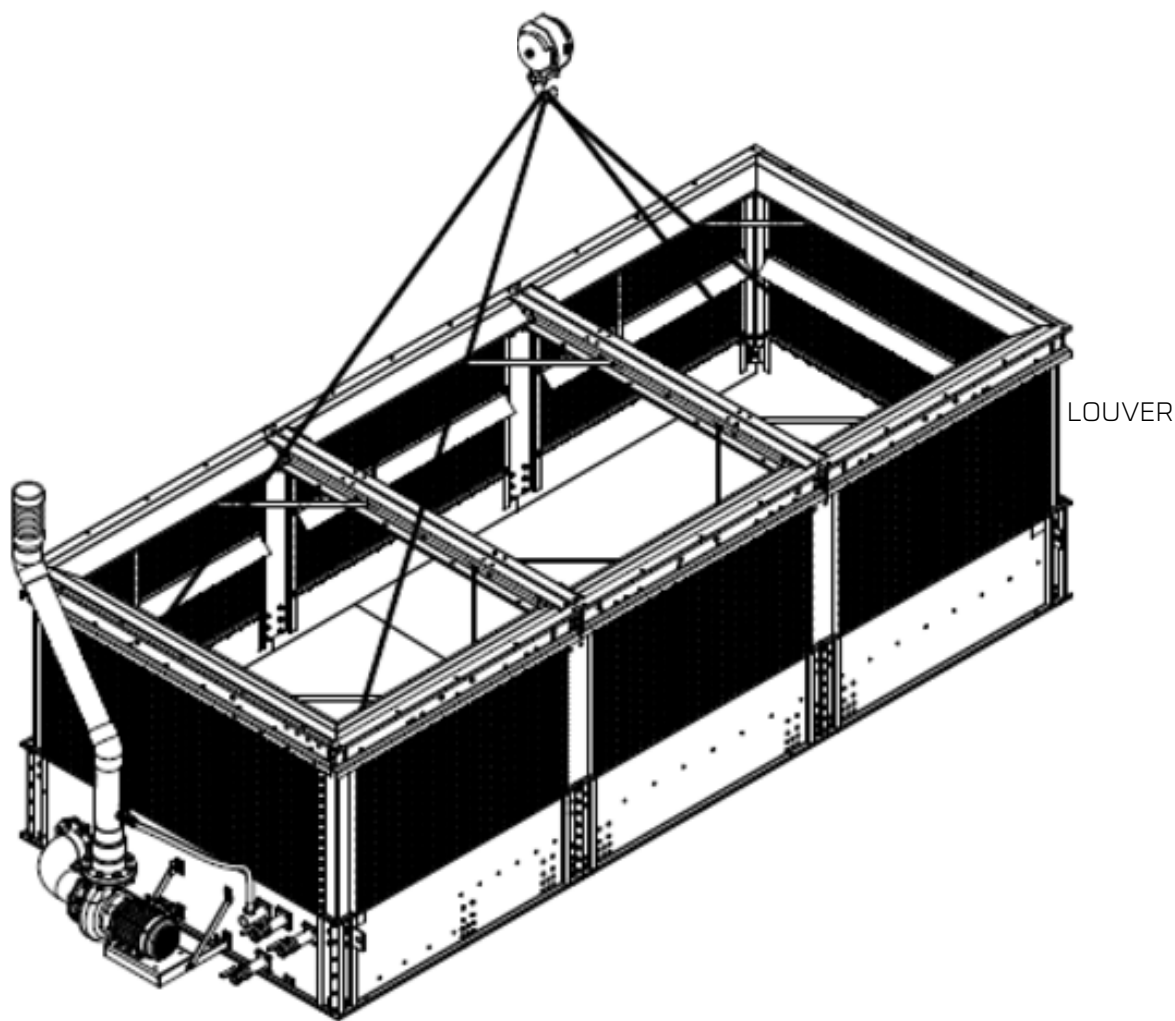


HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

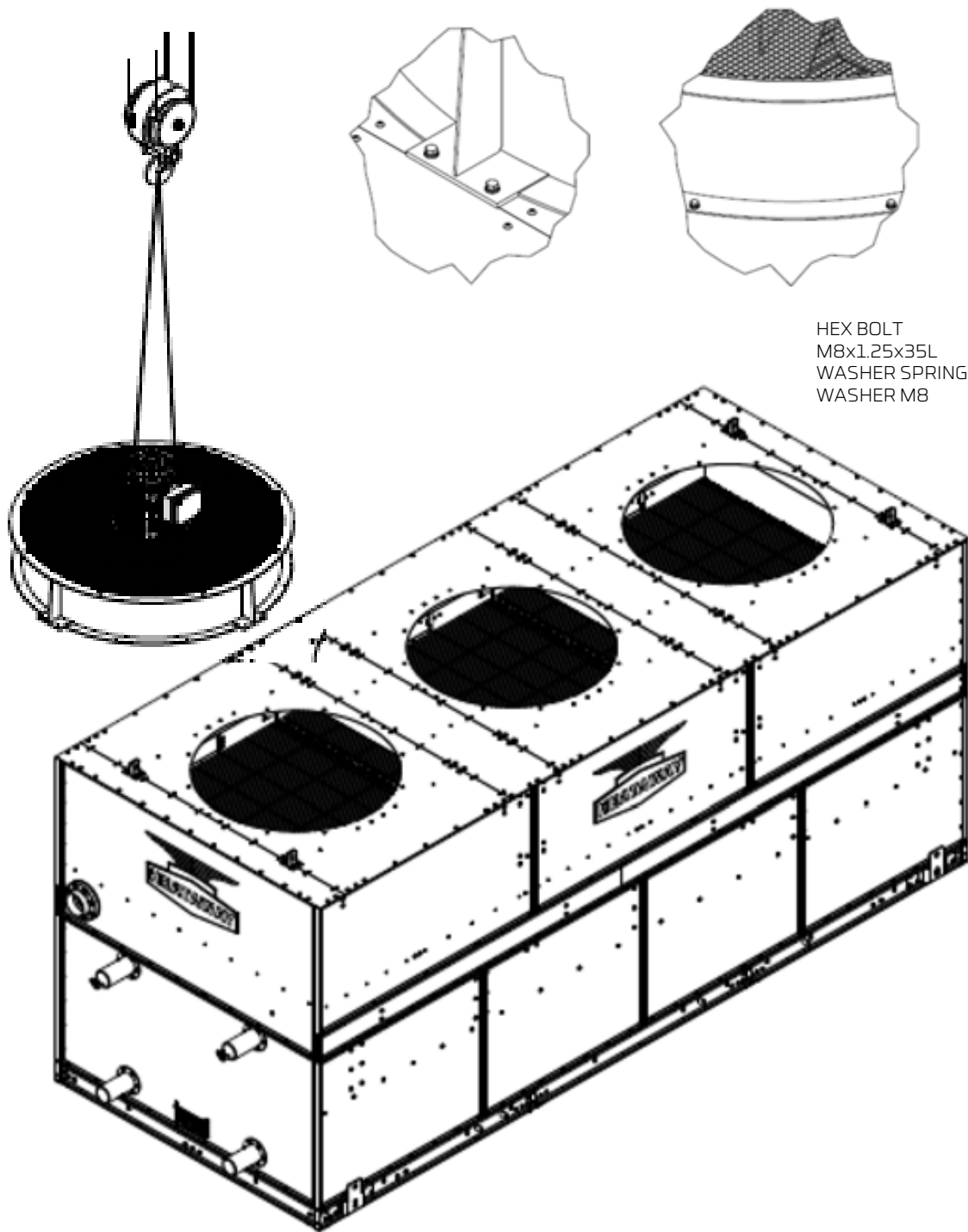


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

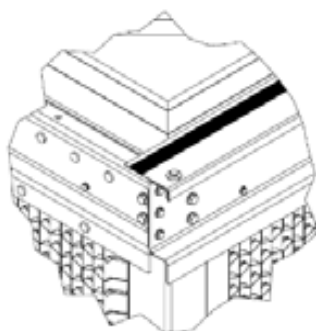
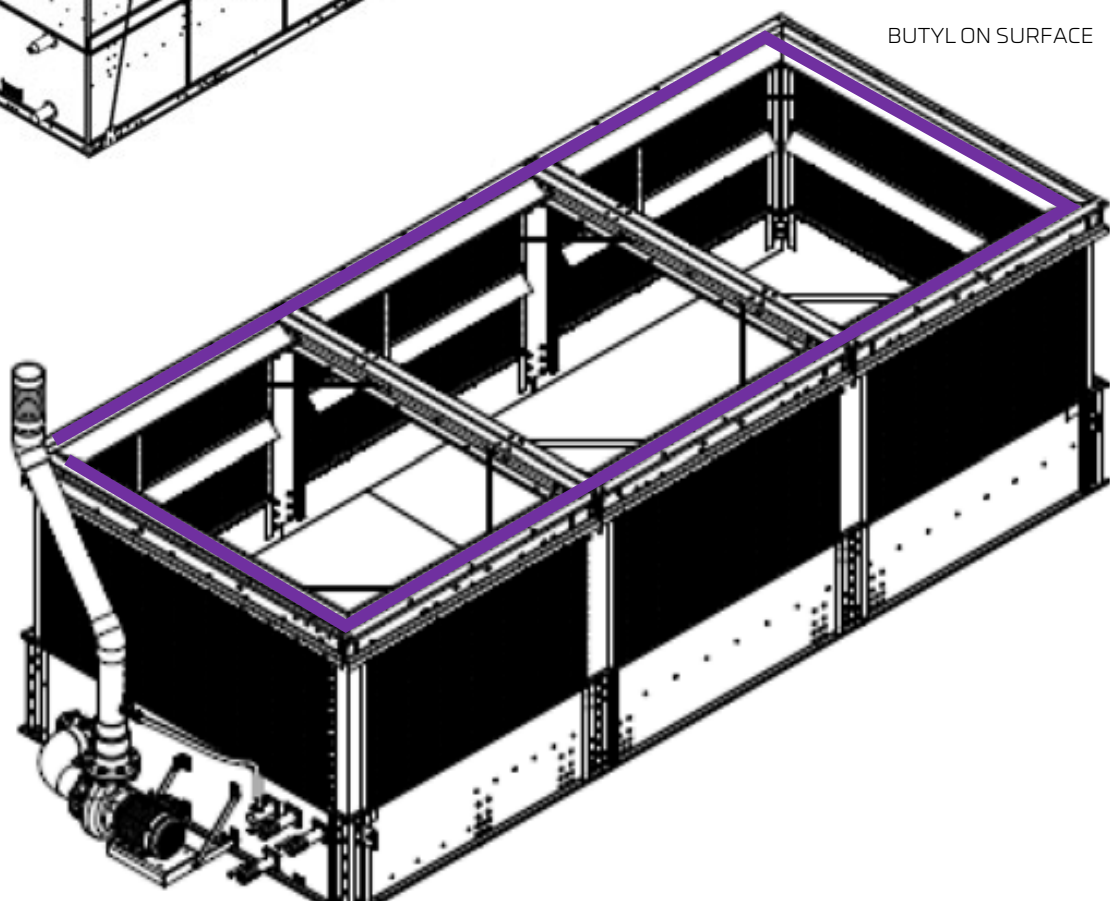
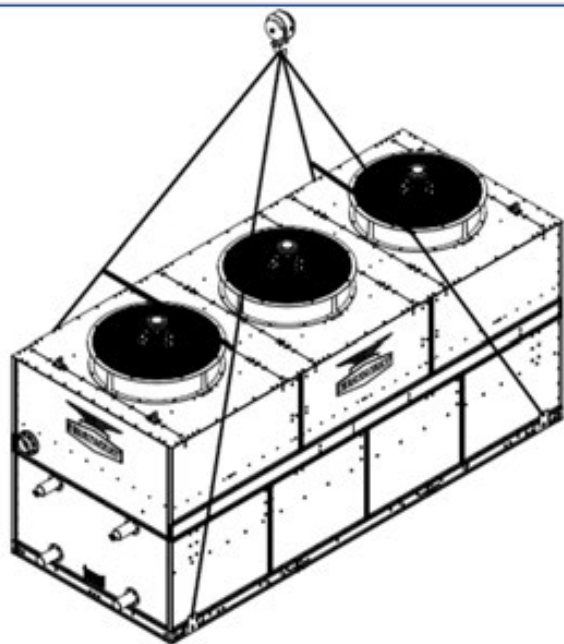
Step 6 : Move Assembled Basin to Position



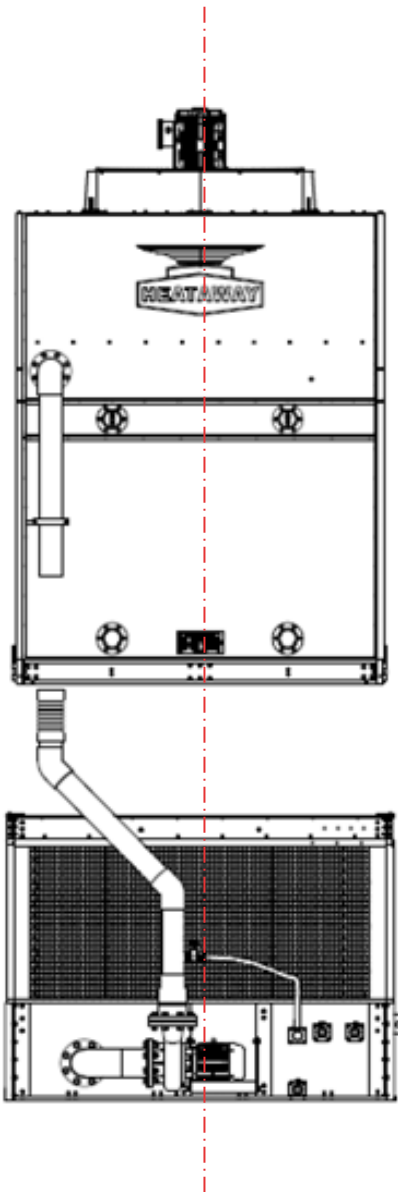
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



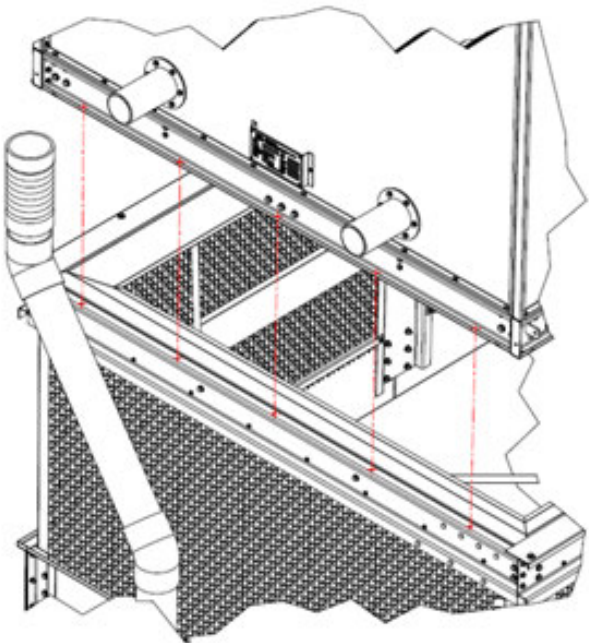
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



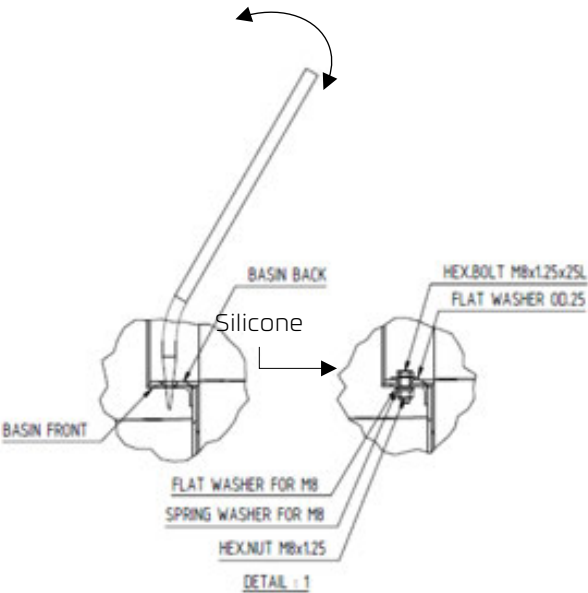
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



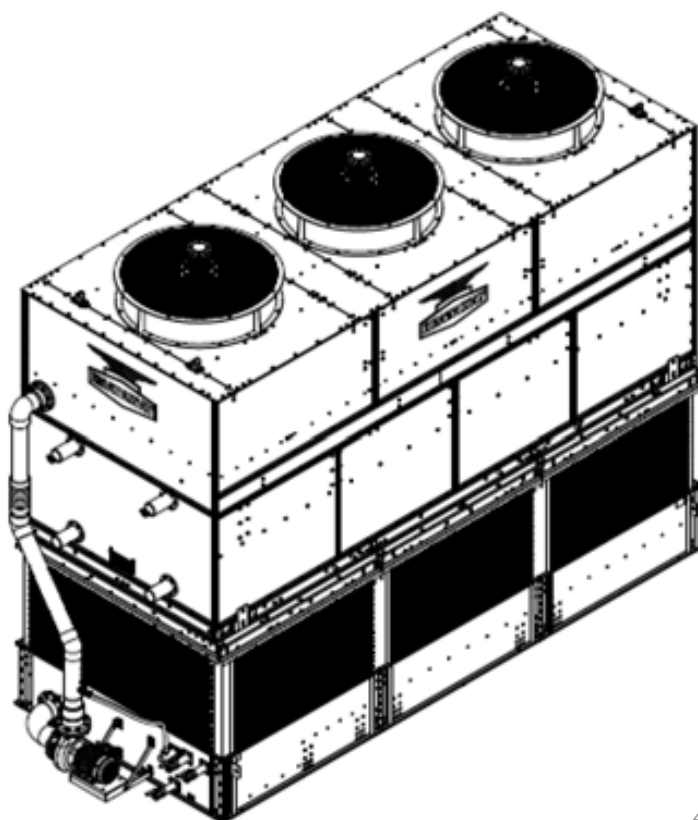
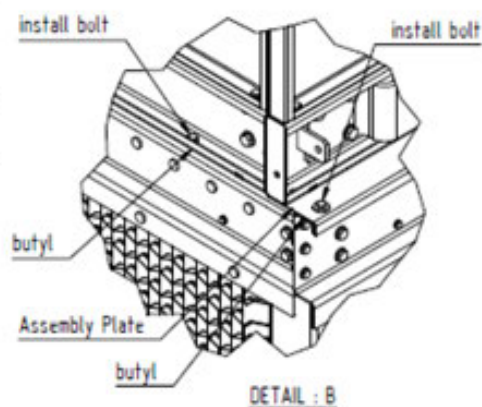
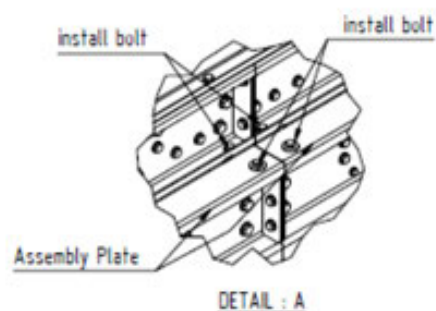
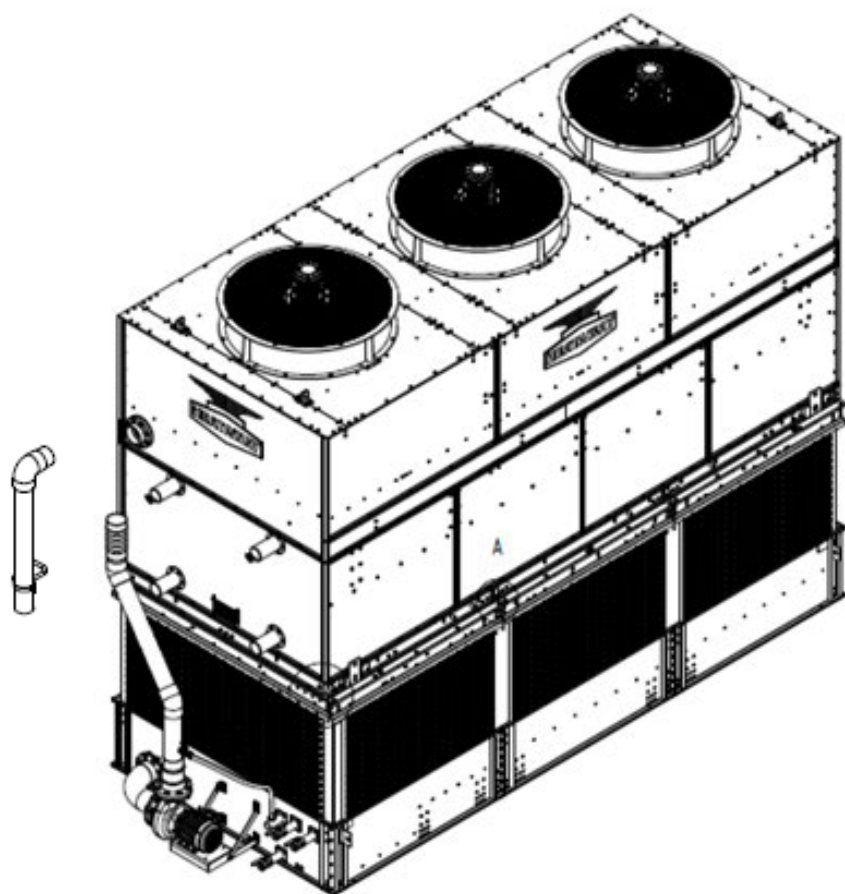
Set Upper section on BASIN Section by setting in middle of BASIN Section



Use rod guide for guide upper section and BASIN Section and make sure front side and back side are in position before assembly



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



TIGHTENING TORQUE (A2-70)

M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

10' X 12'

Model

EC9-1400-1012C-S

EC9-1600-1012C-M

EC9-1660-1012C-L

EC9-1840-1012C-M

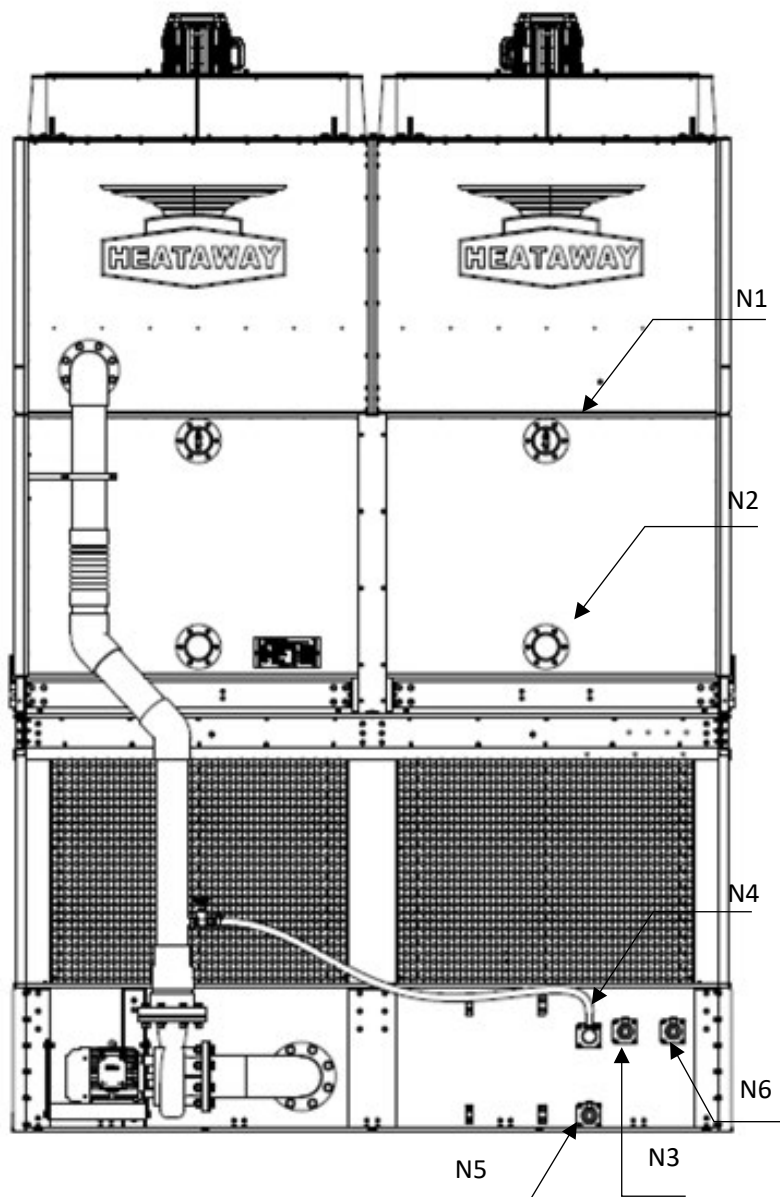
EC9-1920-1012C-L

EC9-2000-1012C-M

EC9-2080-1012C-L

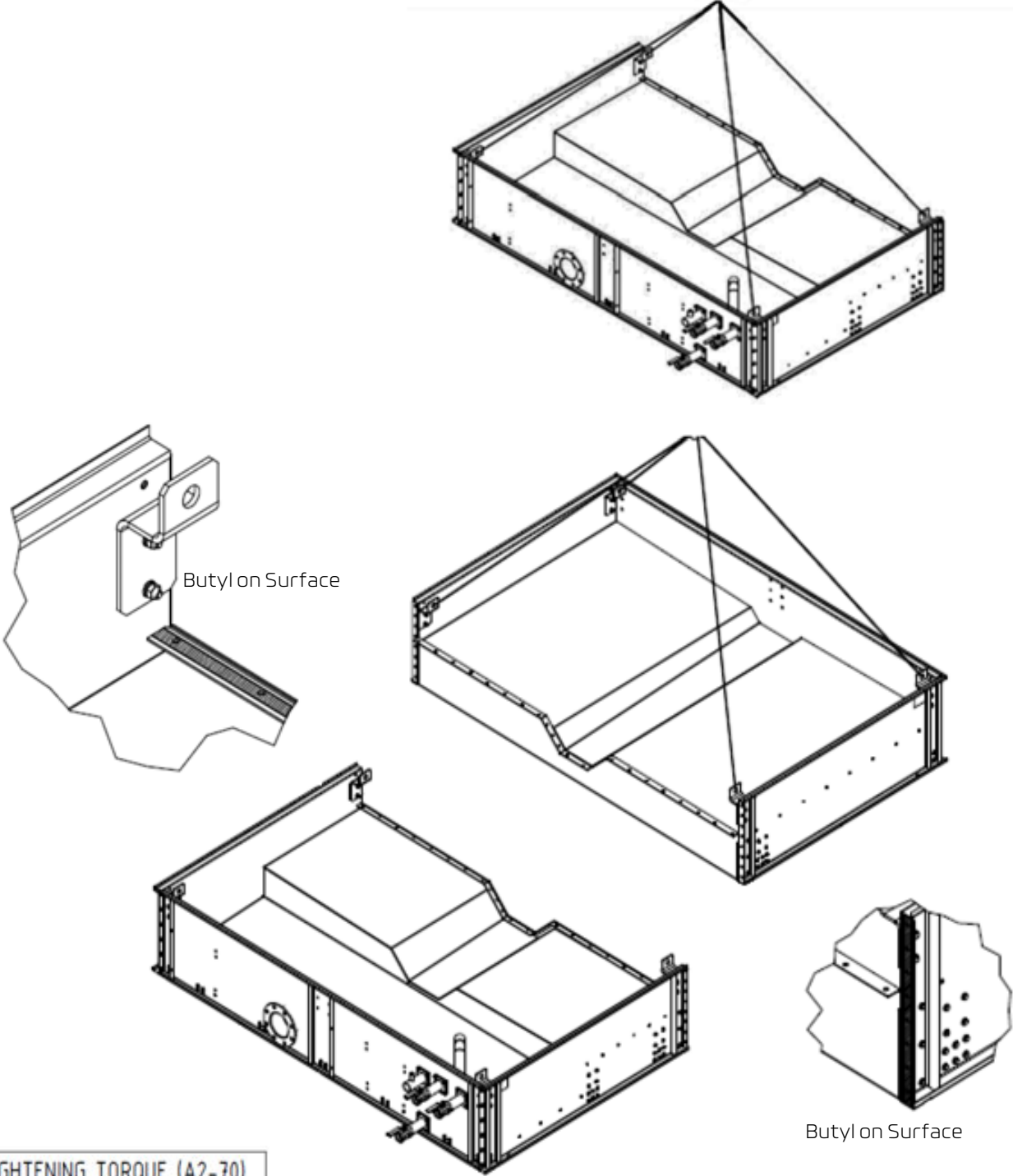


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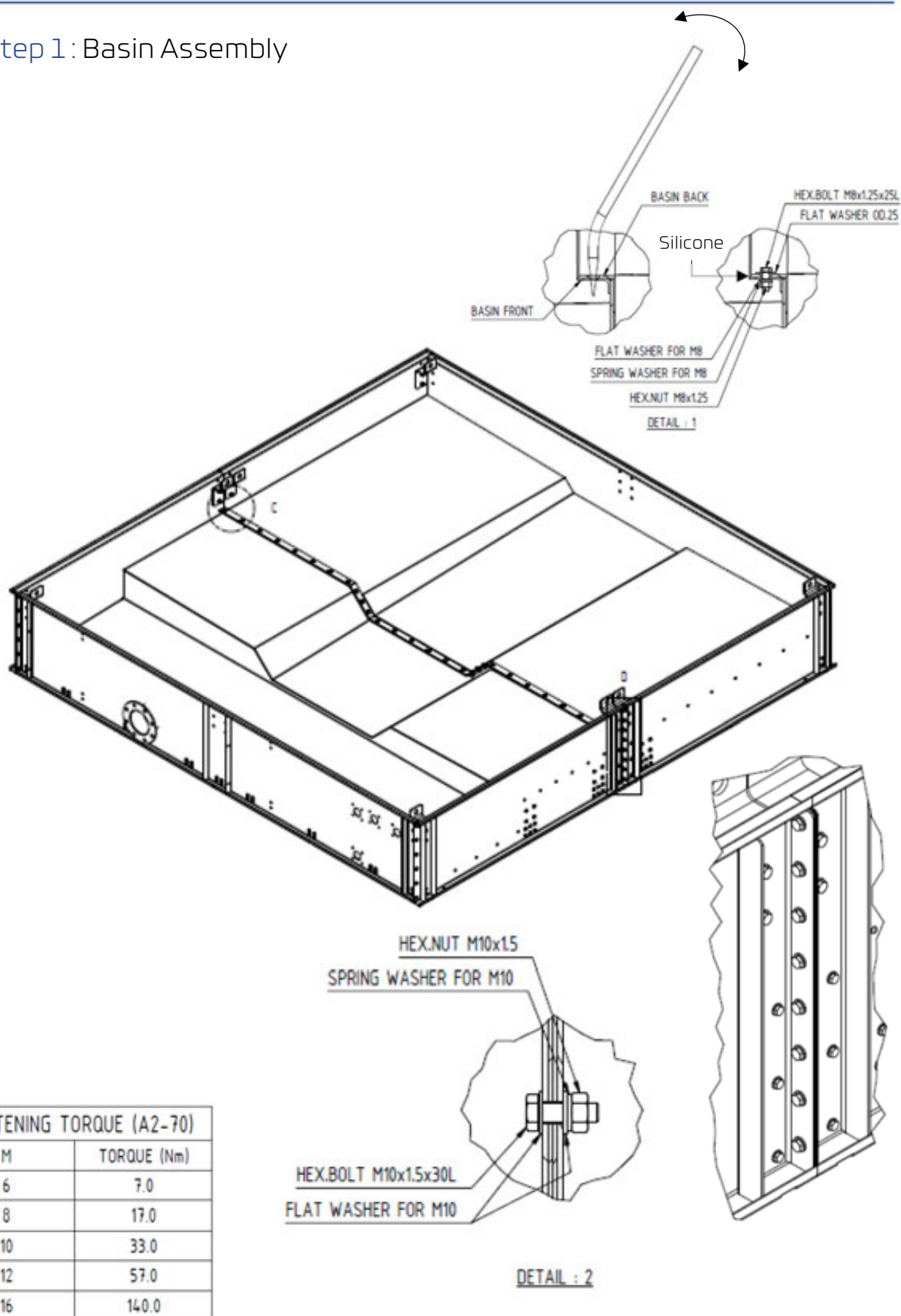
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Step 1: Basin Assembly



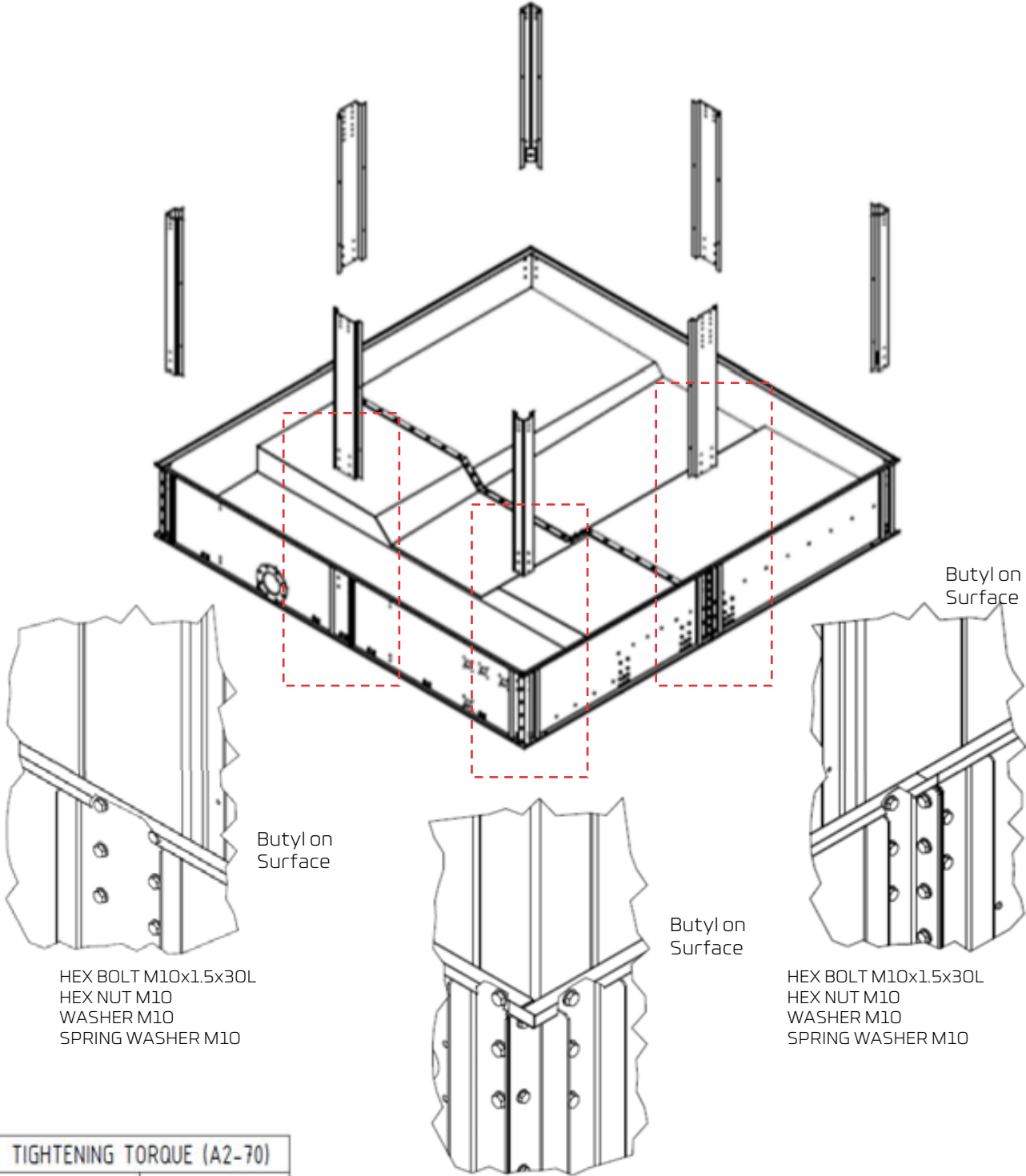
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 1: Basin Assembly



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 2 : Support Frame Assembly



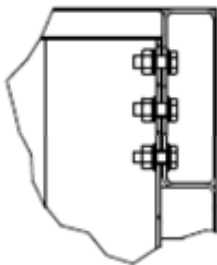
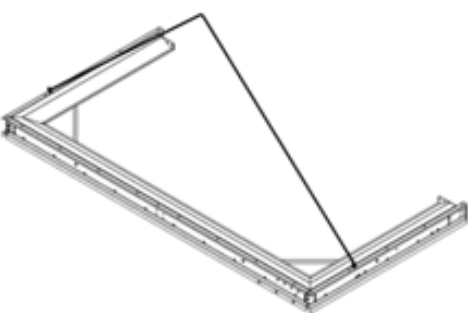
HEX BOLT M10x1.5x30L
HEX NUT M10
WASHER M10
SPRING WASHER M10

HEX BOLT M10x1.5x30L
HEX NUT M10
WASHER M10
SPRING WASHER M10

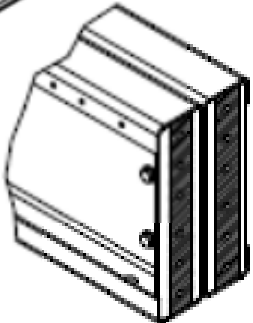
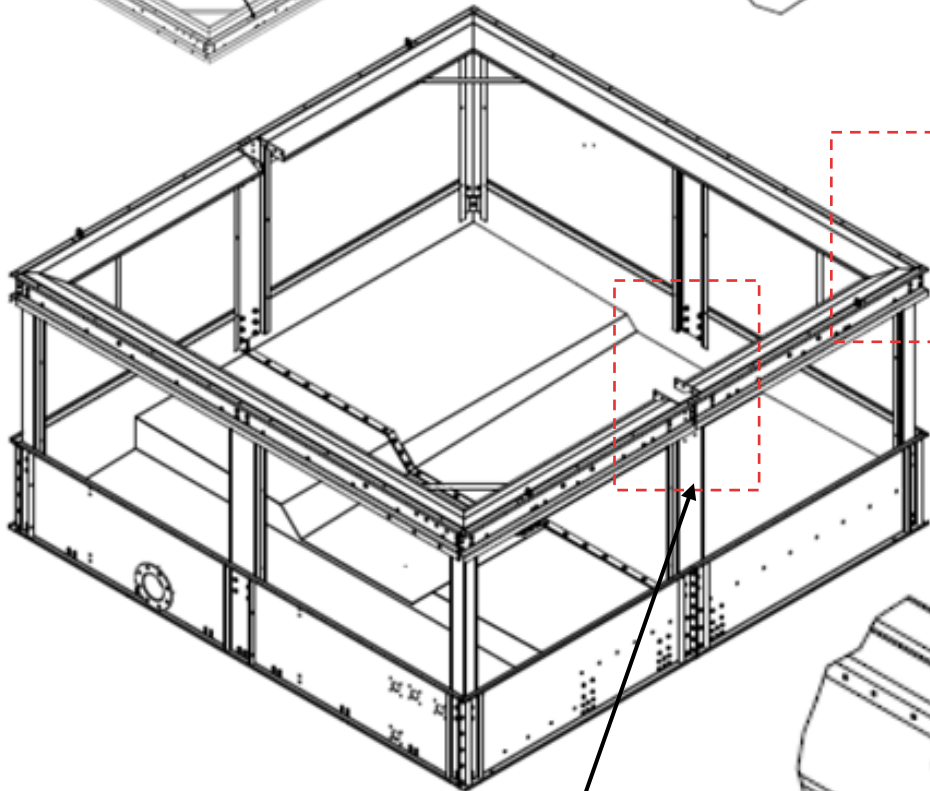
HEX BOLT M10x1.5x30L
HEX NUT M10
WASHER M10
SPRING WASHER M10

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

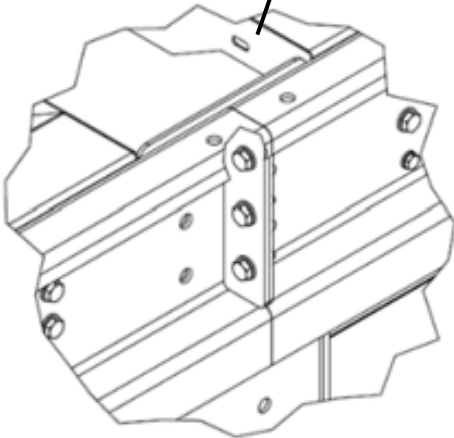
Step 3 : Frame Assembly



HEX BOLT
M8x1.25x25L
HEX.LOCK NUT
M8x1.25
WASHER M8



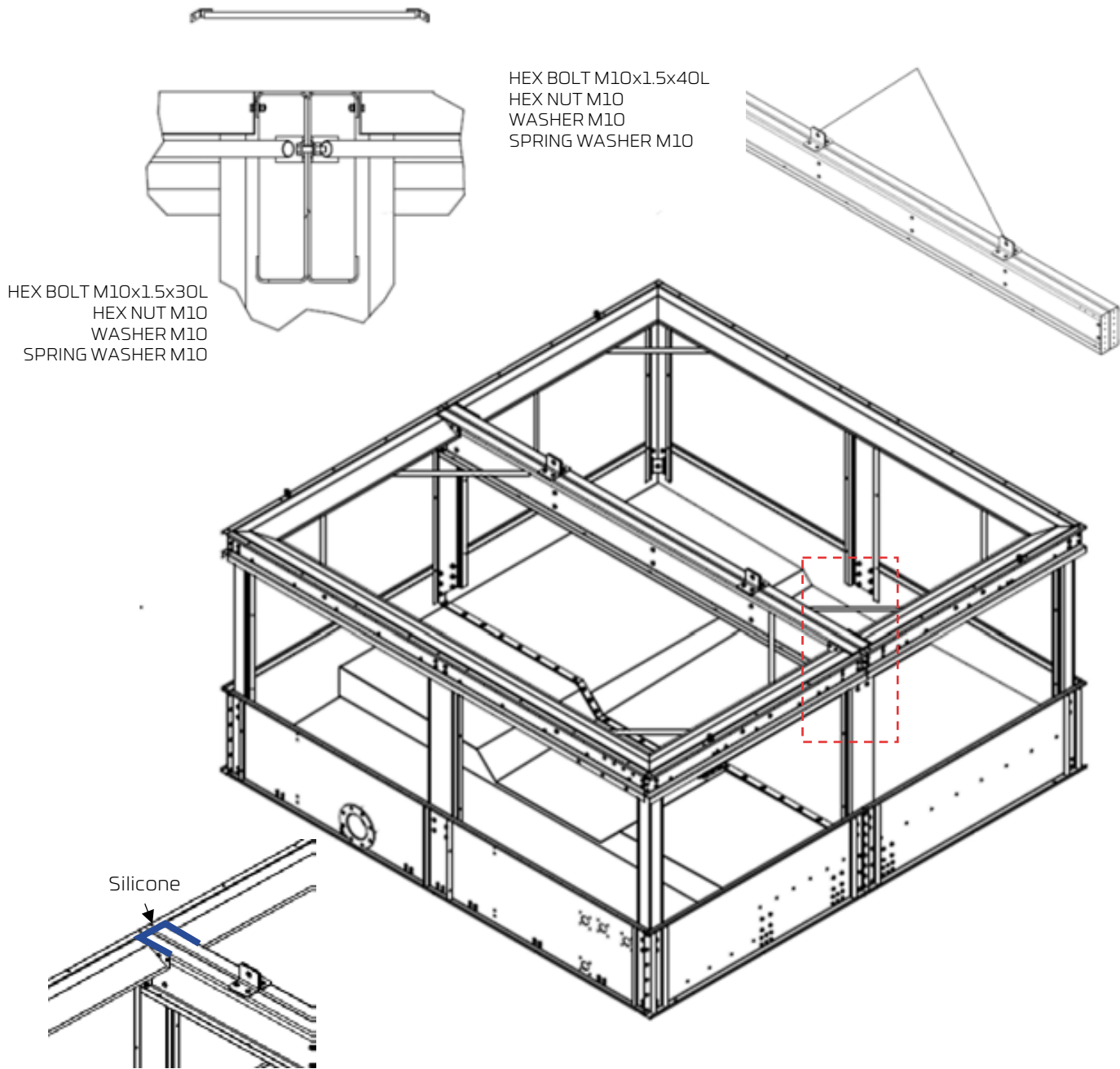
Butyl on Surface



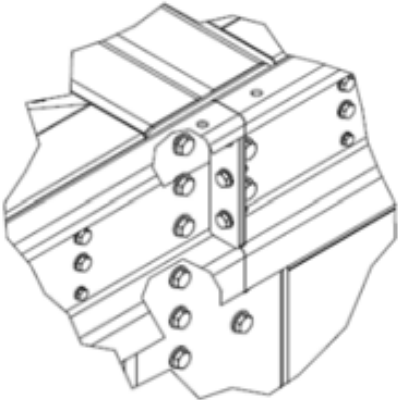
HEX BOLT
M8x1.25x25L
HEX.LOCK NUT
M8x1.25
WASHER M8

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 4 : Frame Beam and Support Assembly

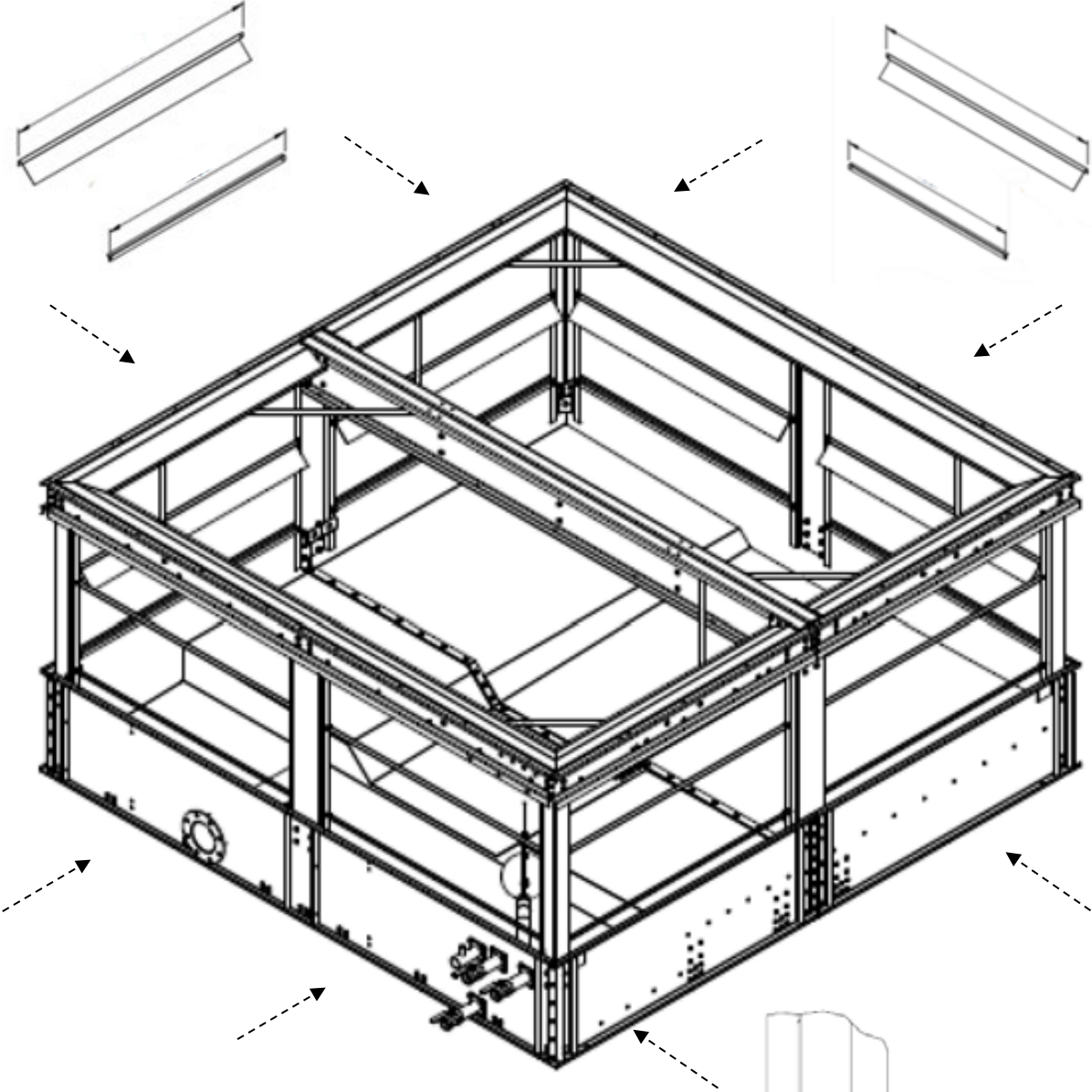


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

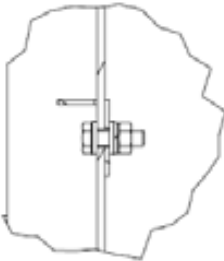


HEX BOLT M10x1.5x30L
HEX NUT M10
WASHER M10
SPRING WASHER M10

Step 5 : Water Deflect Assembly



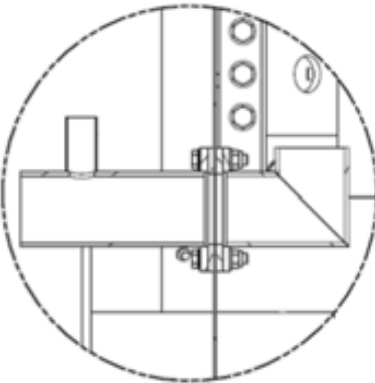
HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8



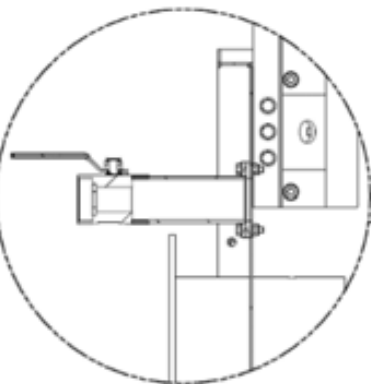
HEX BOLT
M6x1.25x20L
HEX LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

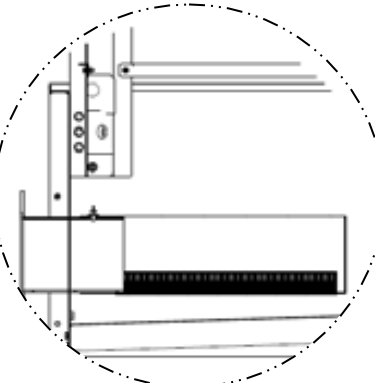
Step 6 : Piping and Valve Assembly



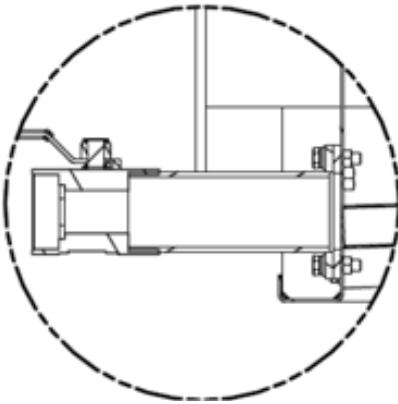
PIPE OVER FLOW
BOLT M8x1.25x40L
NR GASKET
WASHER FOR M8
HEX.LOCK NUT M8X1.25



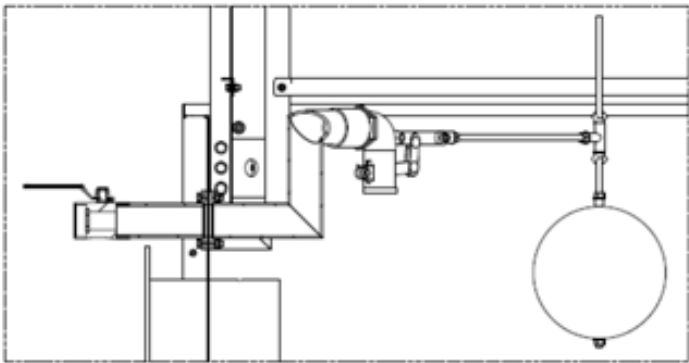
BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8X1.25



PIPE WITH STRAINER
WING SCREW - M8 x 12
WASHER



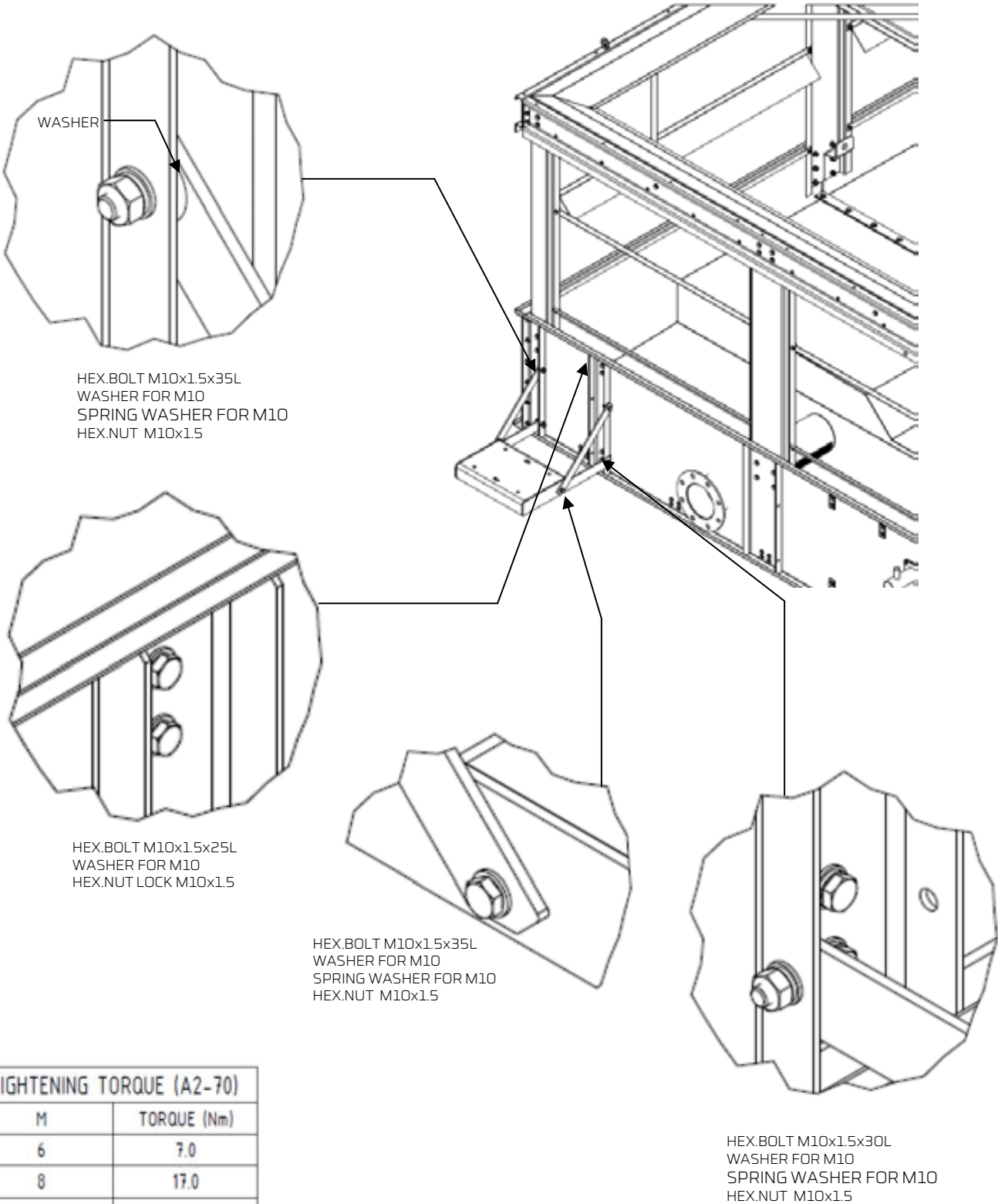
BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8X1.25



BALL VALVE
FLOAT VALVE
WASHER FOR M8
NR GASKET
PIPE MAKE UP WATER 2"
FLOAT VALVE
BOLT M8x1.25x30L
SPRING WASHER M8
HEX.LOCK NUT M8X1.25

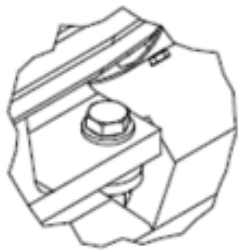
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 7 : Water Pump Base Assembly

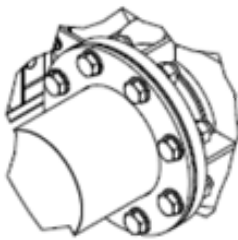


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

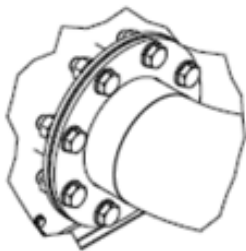
Step 8 : Water Pump pipe Assembly



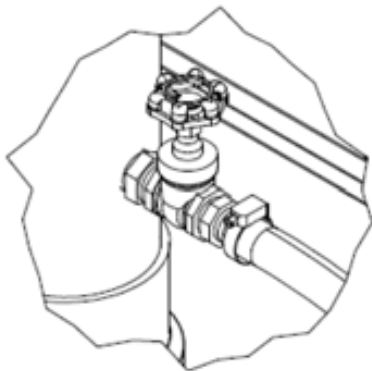
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x45L



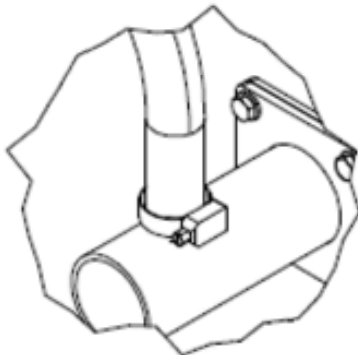
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L



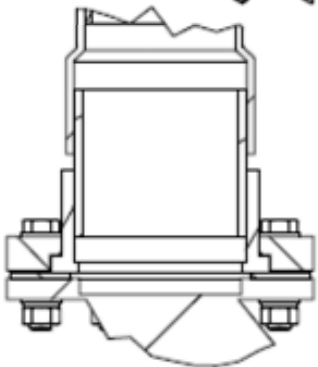
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"
TEXTILE HOSE 1"



HOSE CLAMP 1"
TEXTILE HOSE 1"

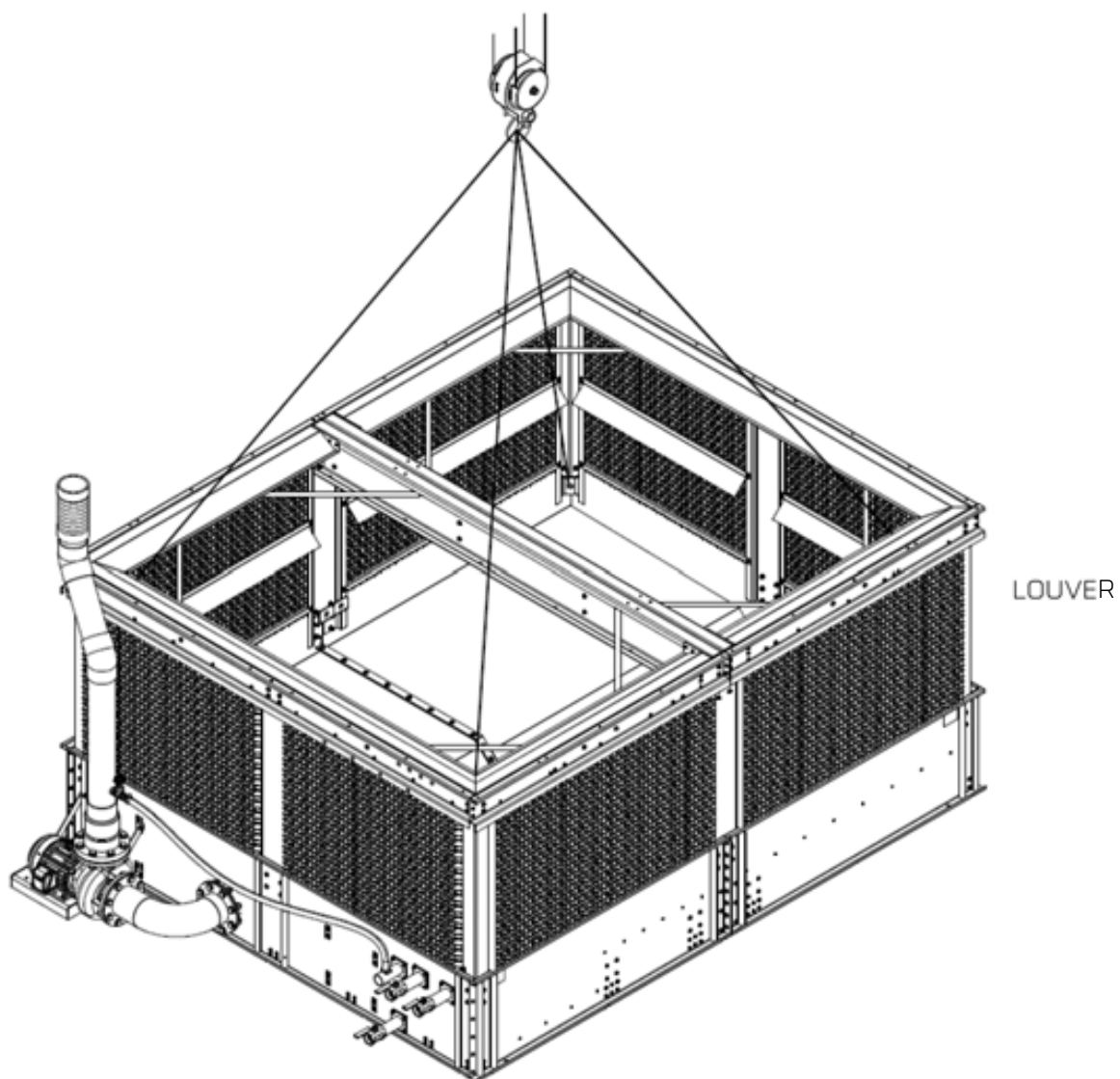


HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

TIGHTENING TORQUE (A2-70)

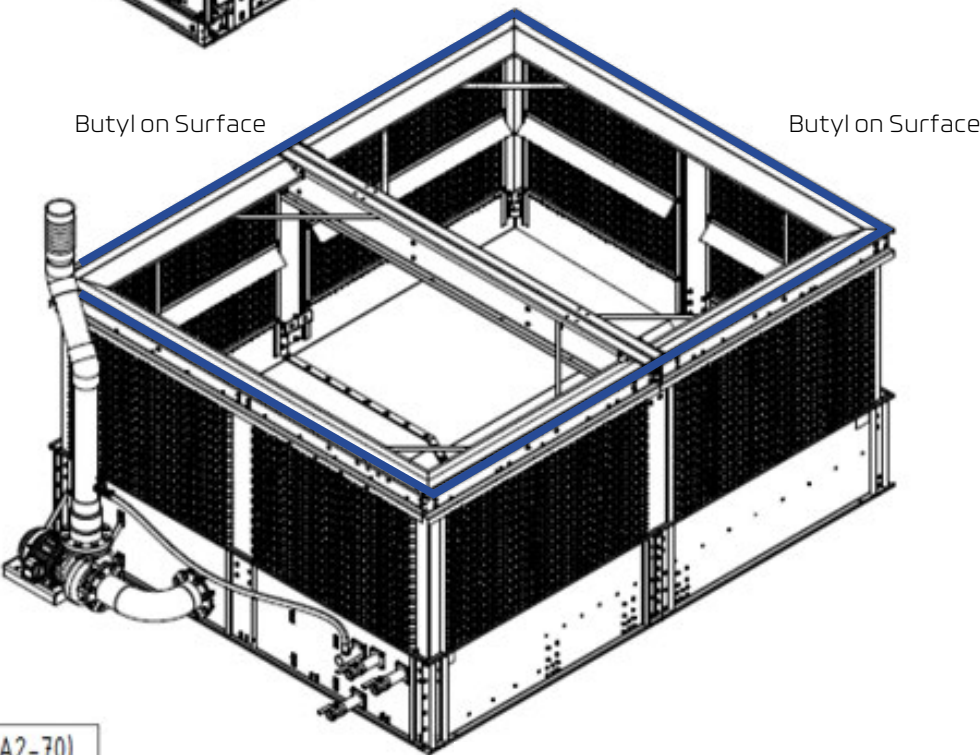
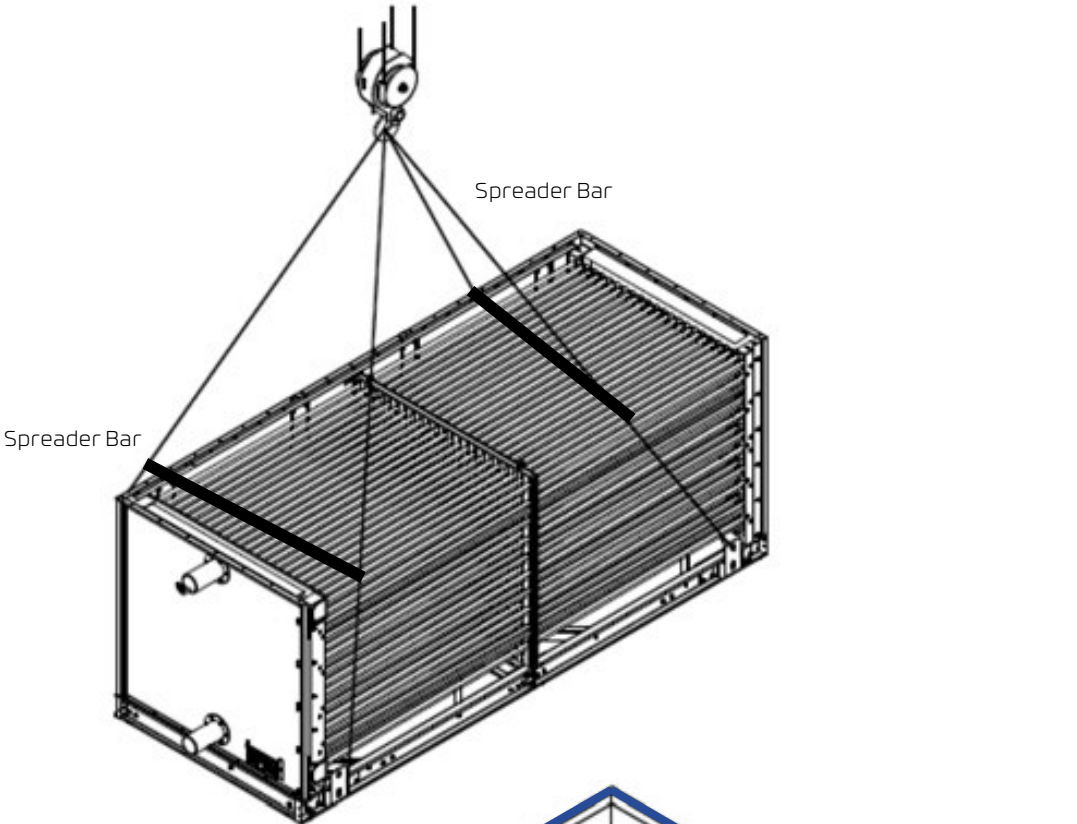
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 9 : Move Assembled Basin to Position

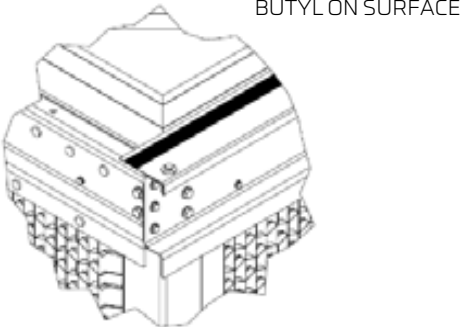


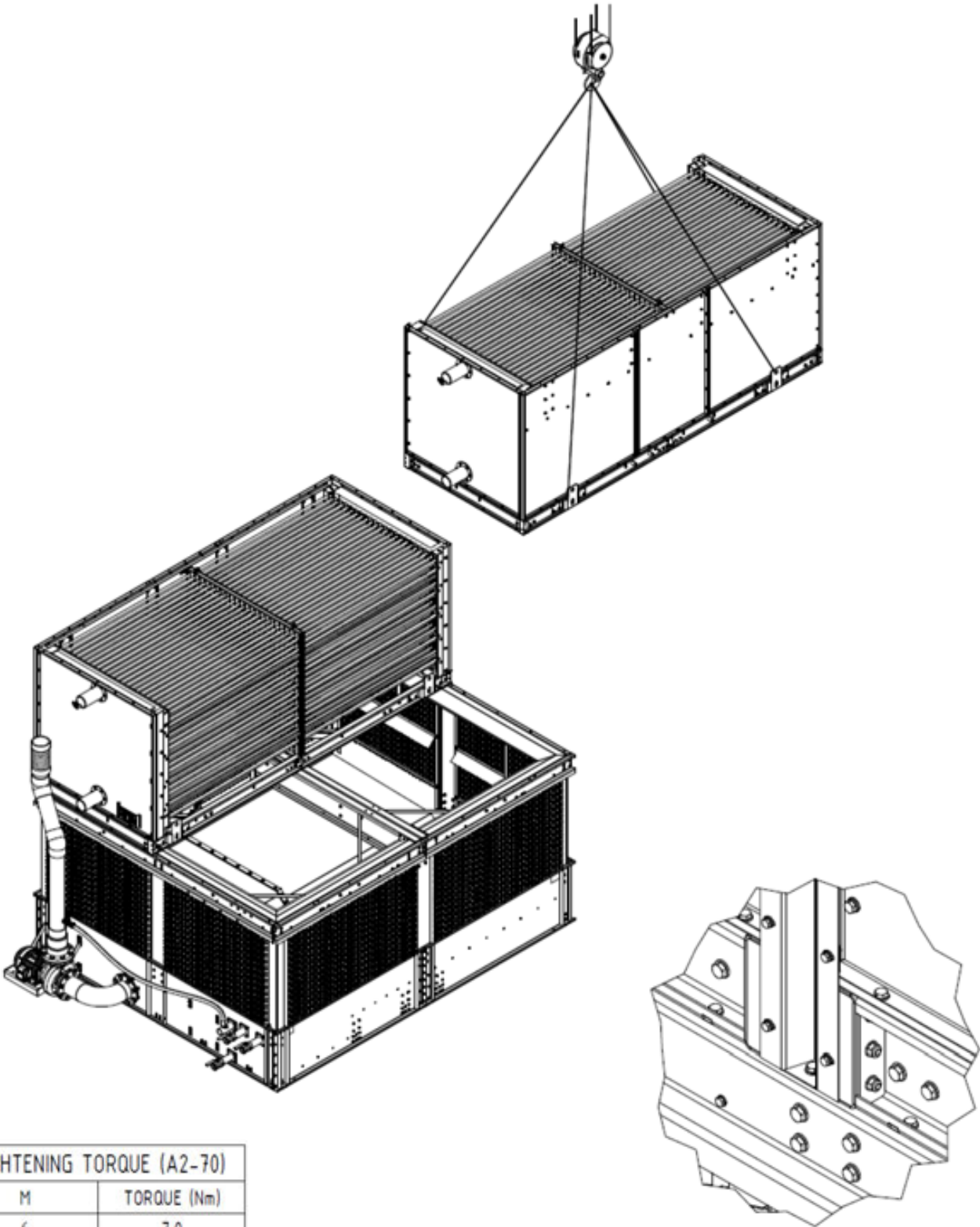
TIGHTENING TORQUE (A2-70)

M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



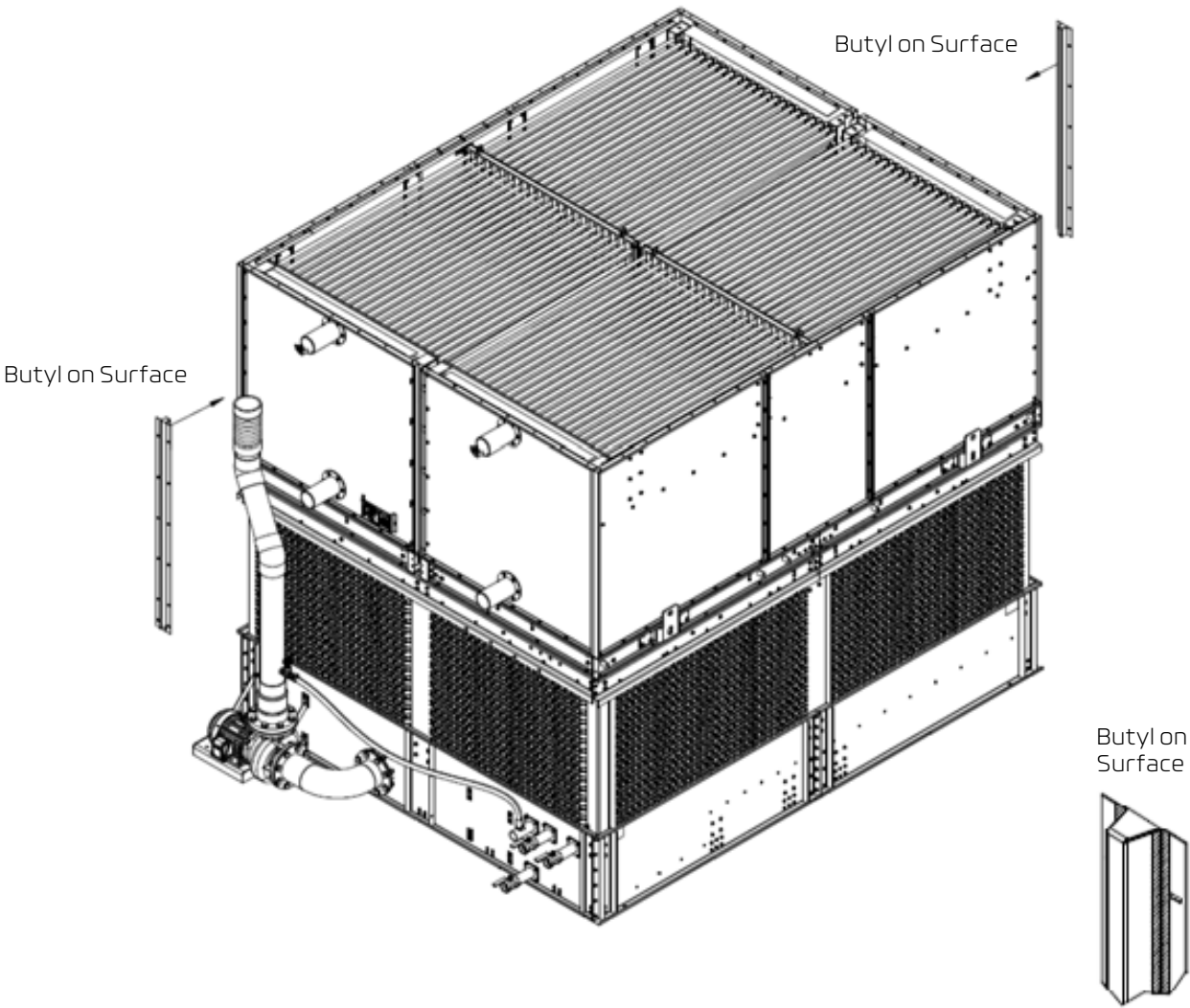
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0





TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

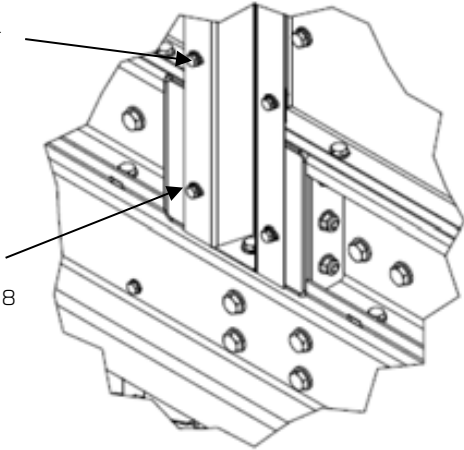
HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8

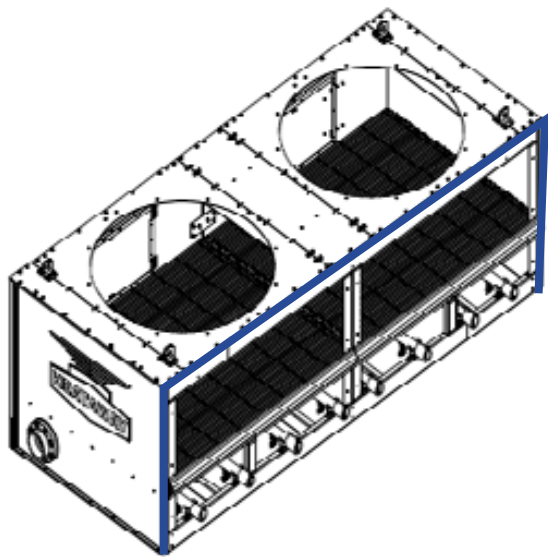
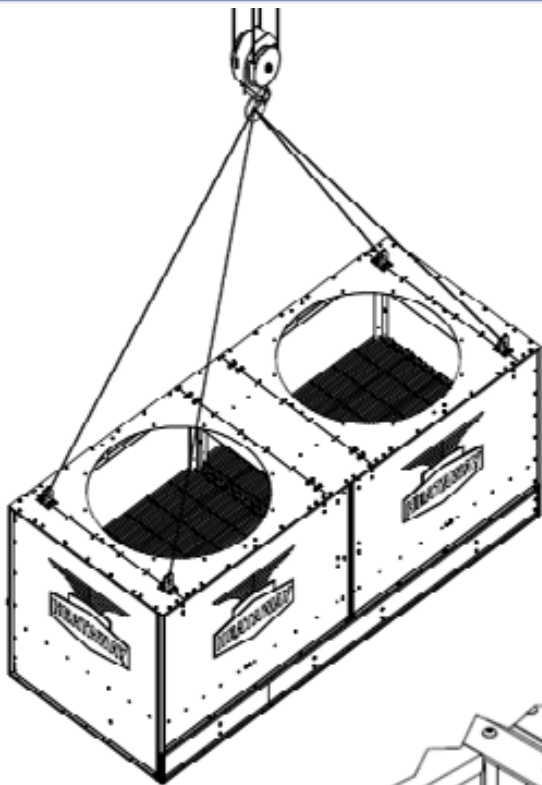


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

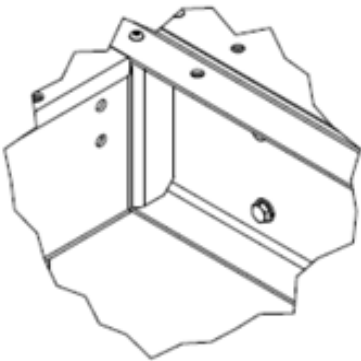
HEX BOLT M6x1x20L
 WASHER SPRING M6
 HEX NUT M6x1
 WASHER M6

HEX BOLT
 M8x1.25x25L
 WASHER SPRING M8
 HEX NUT M8x1.25
 WASHER M8

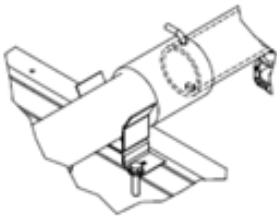




Butyl on
Surface

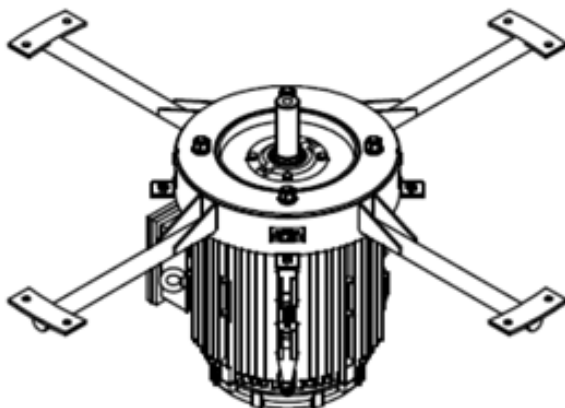
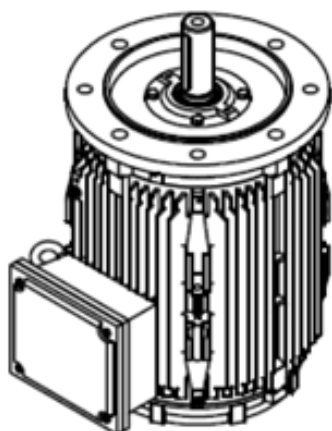


HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8

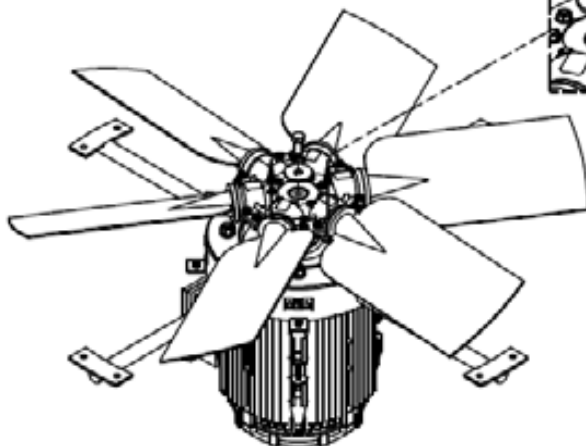
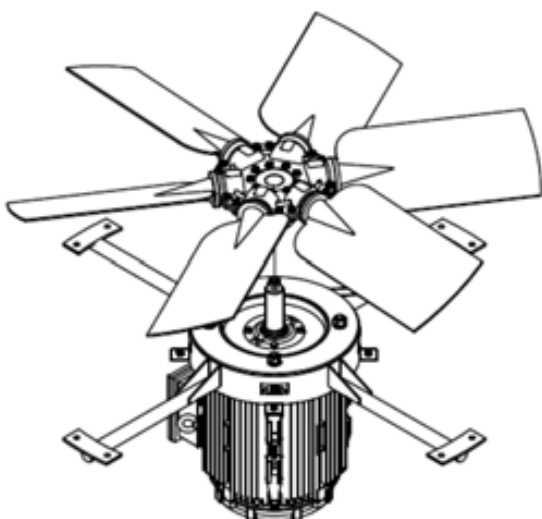


HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8

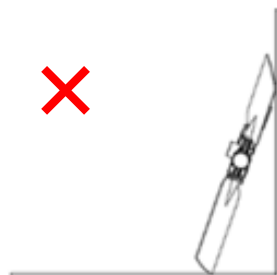
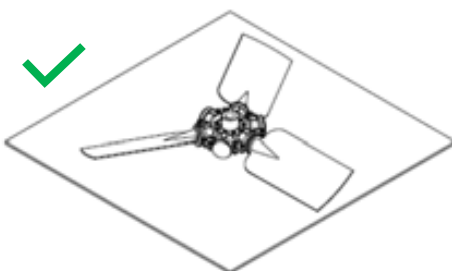
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



HEX NUT M16
 SPRING WASHER FOR
 M16
 WASHER FOR M16
 HEX BOLT
 M16x1.5x60L

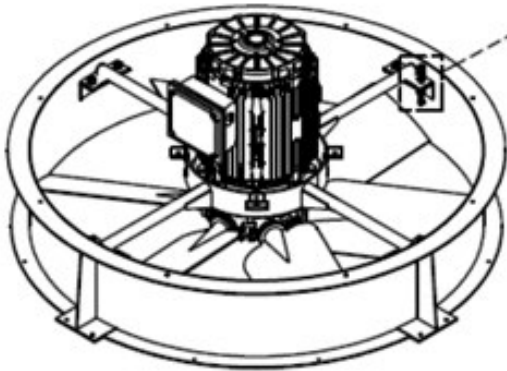
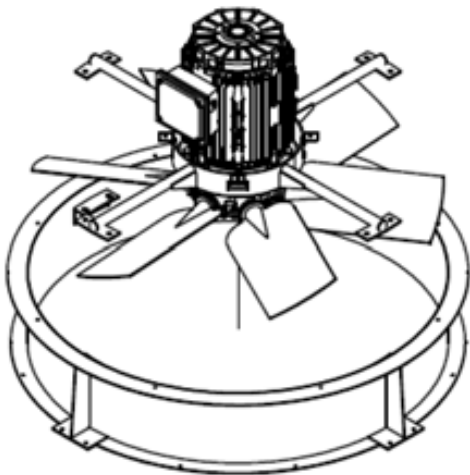


For prevents of FAN Blade warping or deformation please store by keep retaining plate side on the floor.

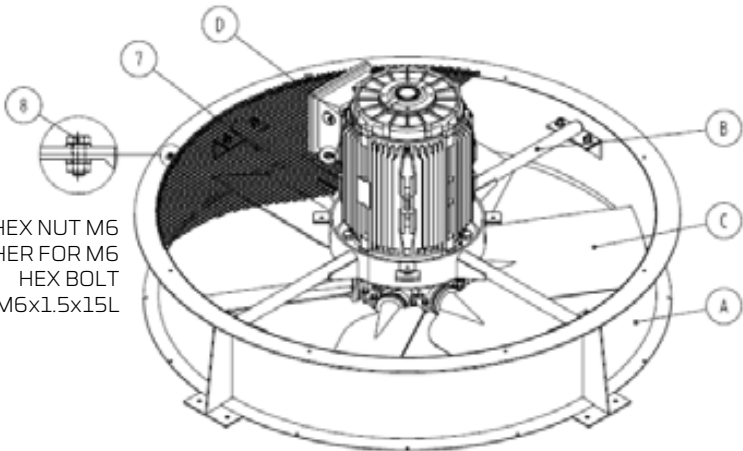
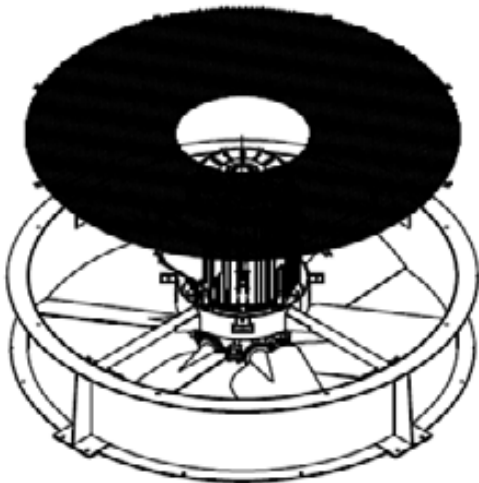


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Fan Motor Assembly



HEX NUT M10
SPRING WASHER FOR
M10
WASHER FOR M10
HEX BOLT M10x1.5x30L

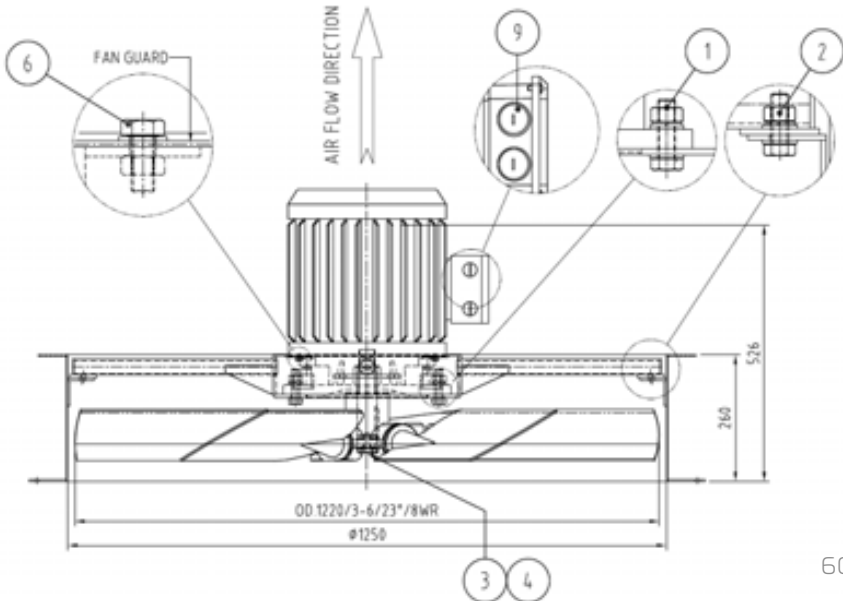


HEX NUT M6
WASHER FOR M6
HEX BOLT
M6x1.5x15L

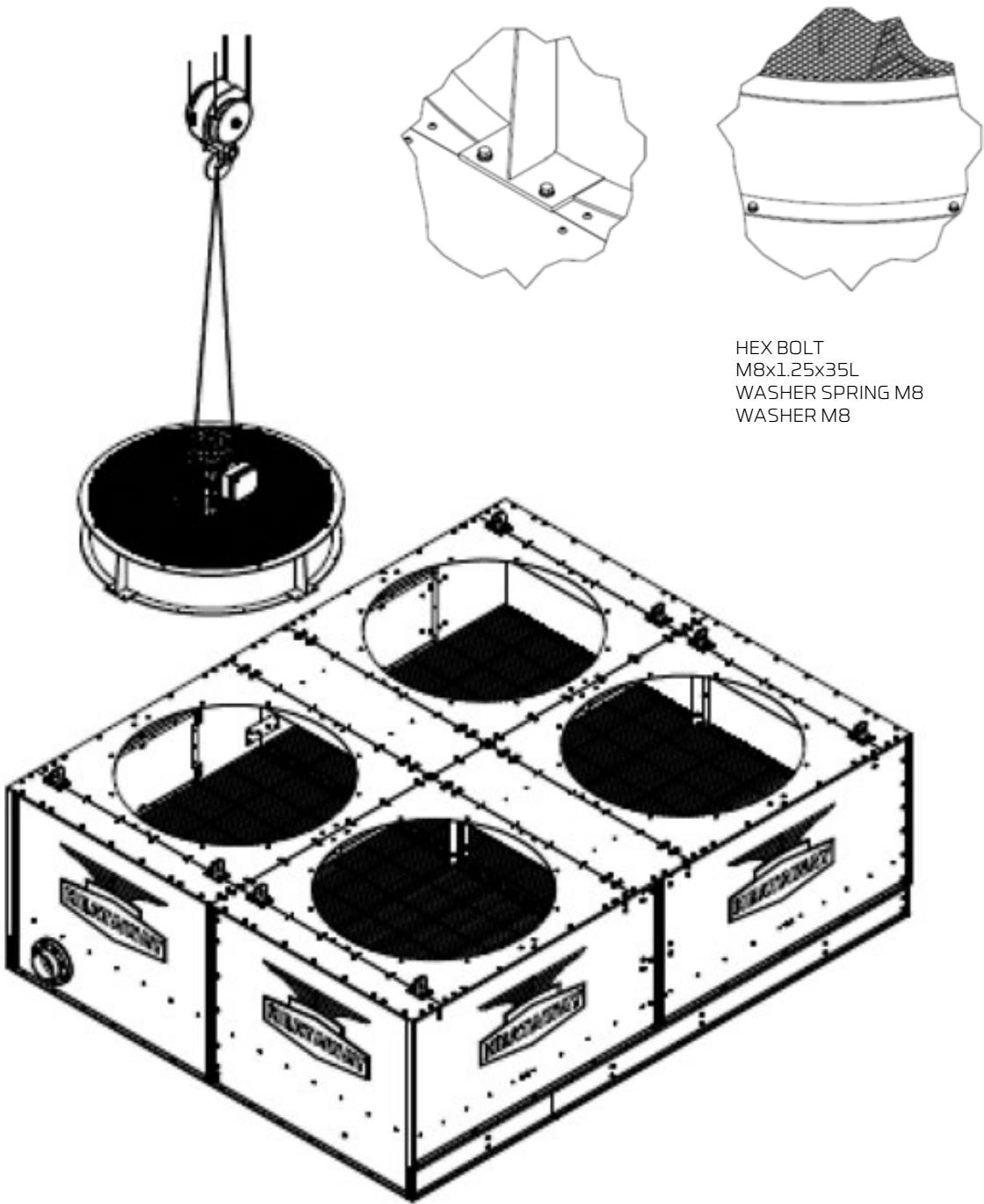
HEX NUT M16
SPRING WASHER FOR
M16
WASHER FOR M16
HEX BOLT
M16x1.5x60L

HEX NUT M10
SPRING WASHER FOR
M10
WASHER FOR M10
HEX BOLT
M10x1.5x30L

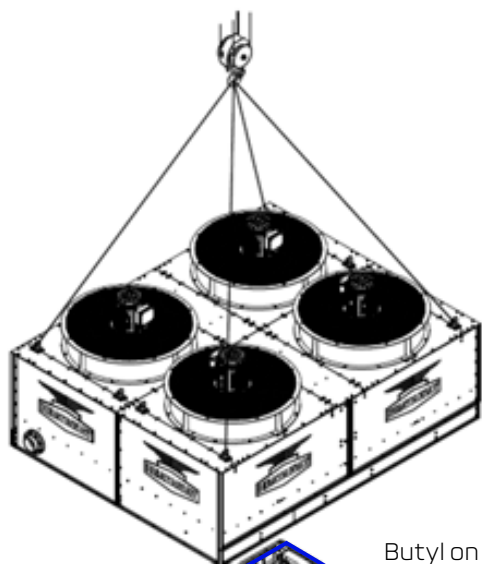
HEX NUT M8
WASHER FOR M8
HEX BOLT
M8x1.5x15L



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

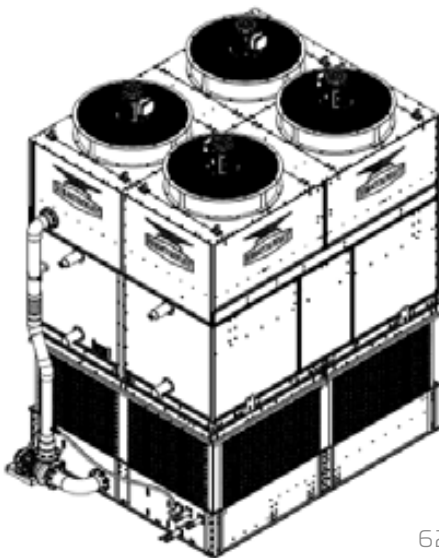
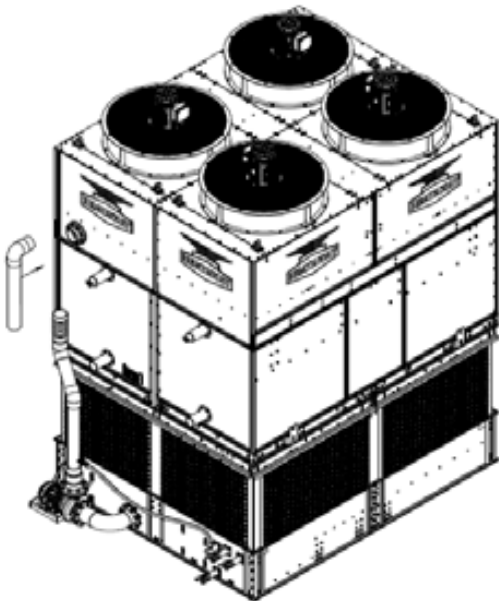
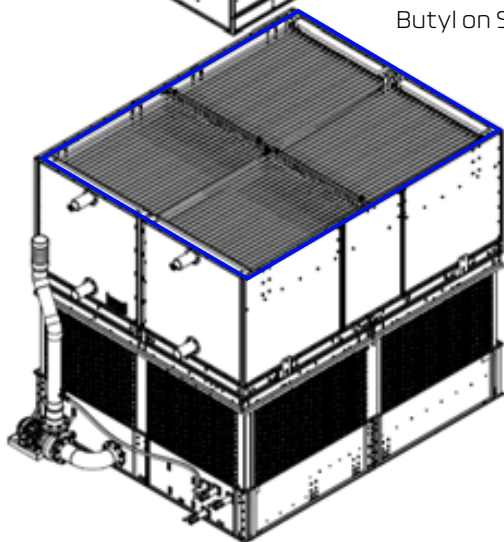


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



HEX BOLT
M8x1.25x20L
WASHER SPRING M8
WASHER M8
HEX NUT M8 1.25

Butyl on Surface



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

10' X 18'

Model

EC9-2250-1018C-S

EC9-2520-1018C-M

EC9-2550-1018C-S

EC9-2860-1018C-M

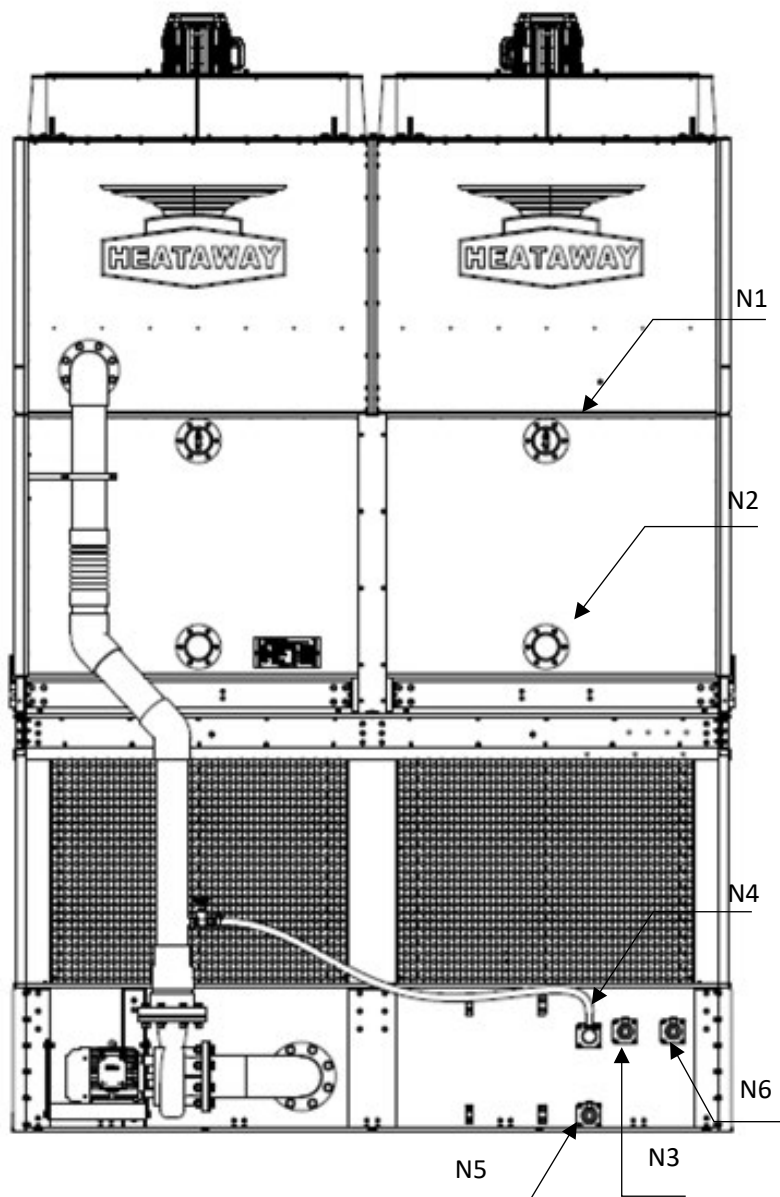
EC9-2990-1018C-L

EC9-3120-1018C-M

EC9-3250-1018C-L



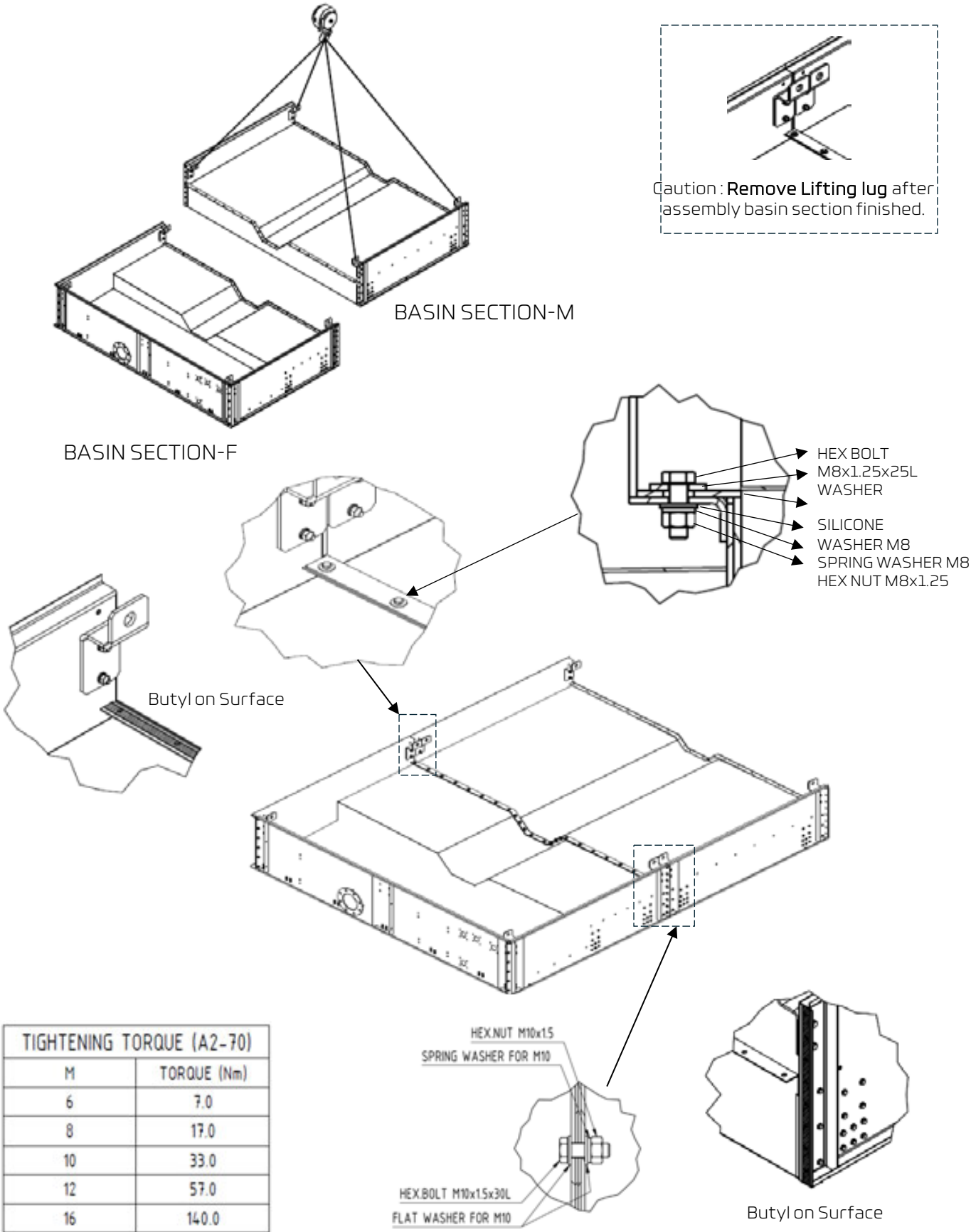
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PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

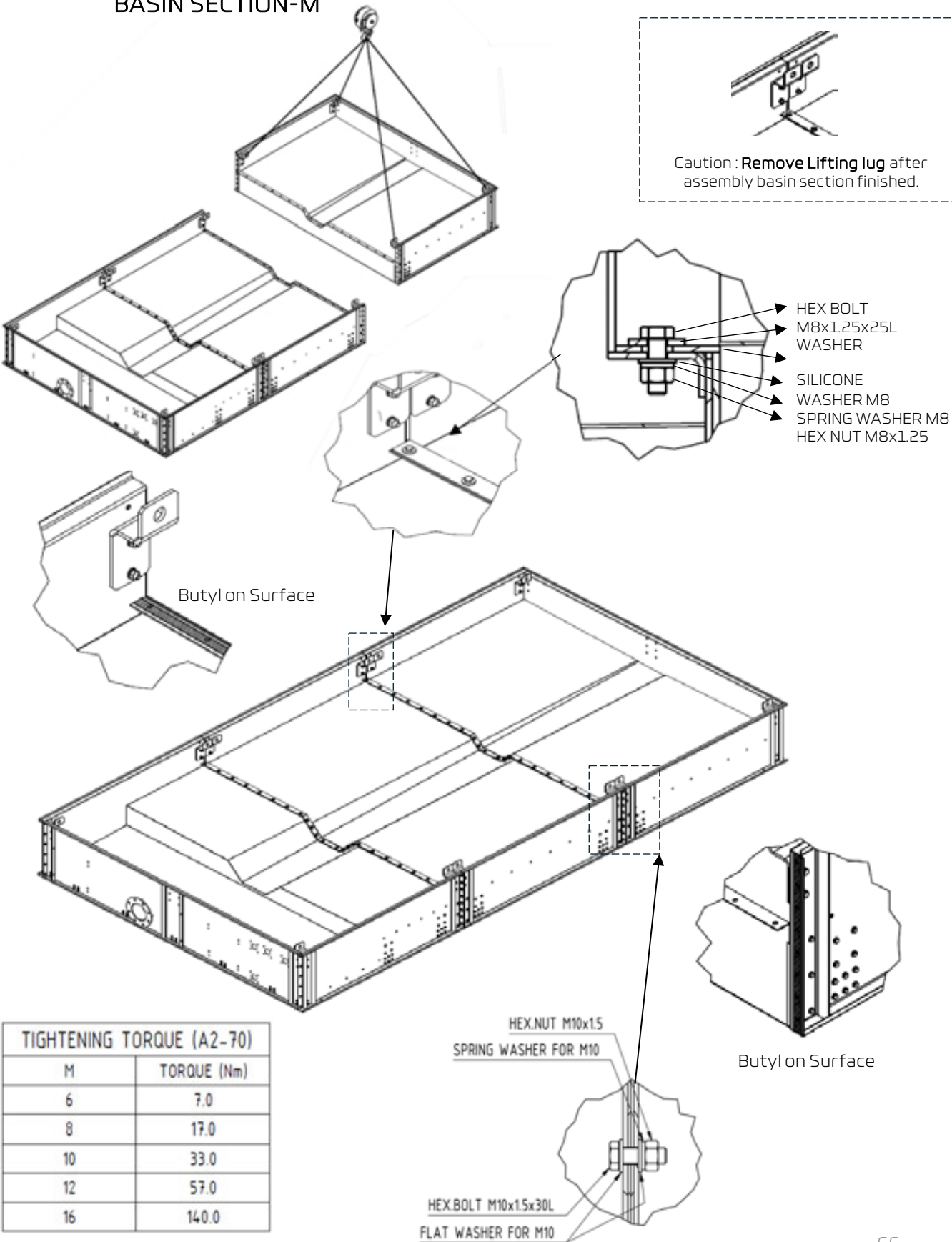
Basin Section Assembly

► **Step 1:** Start Assembly from item " BASIN SECTION-F " And " BASIN SECTION-M "

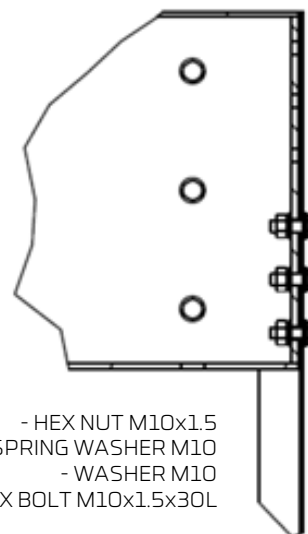
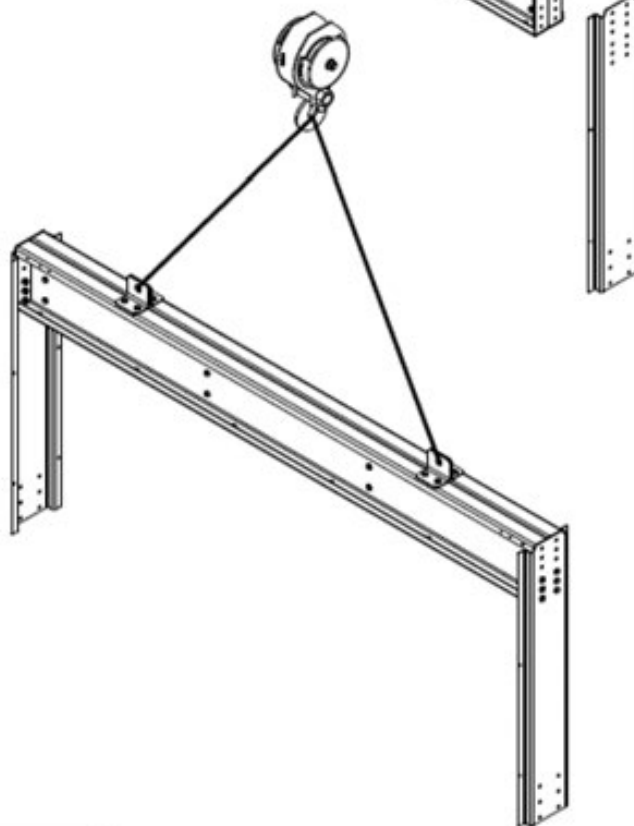
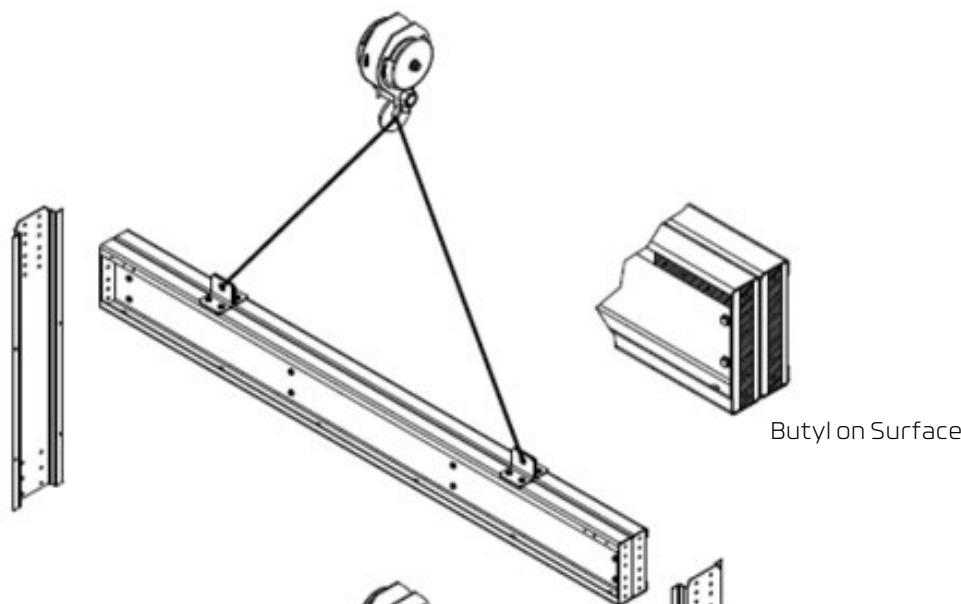


Basin Section Assembly

➤ Step 2 : Assembly " BASIN SECTION-B " with " BASIN SECTION-F " And " BASIN SECTION-M "



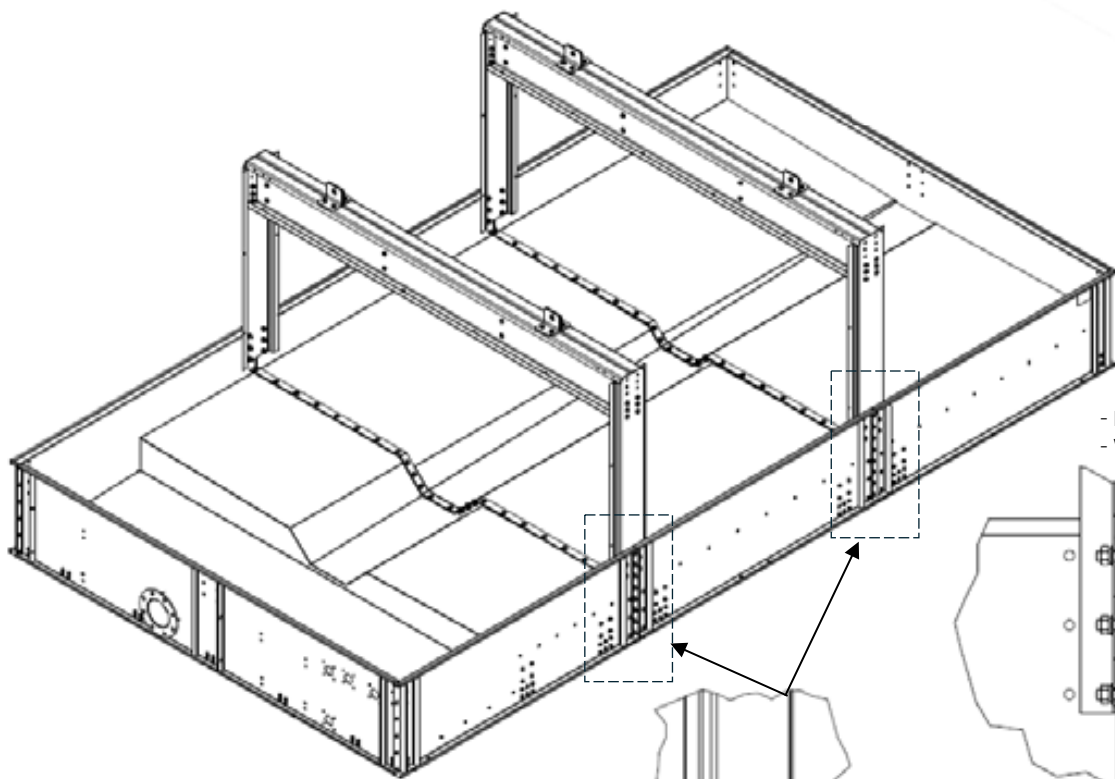
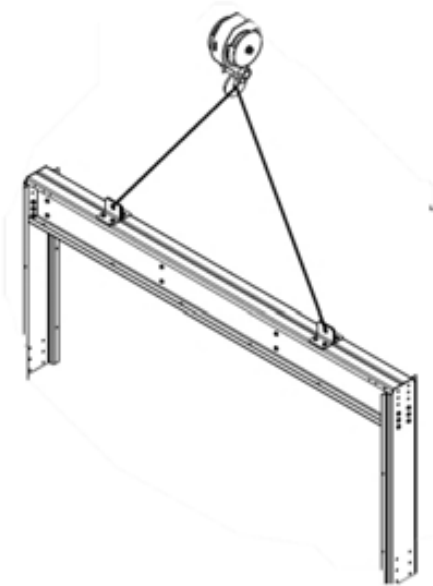
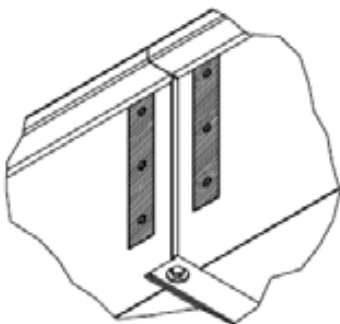
► Step 3 : Assembly Support Frame



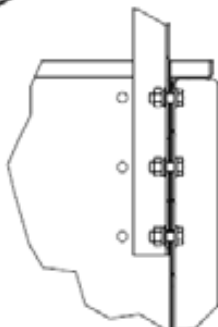
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

➤ Step 4 : Assembly Frame Support with BASIN Set Assembly

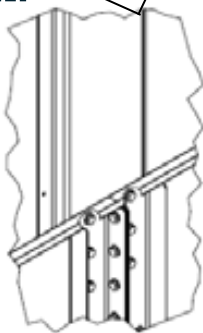
Butyl on Surface



- HEX BOLT M10x1.5x30L
- WASHER M10

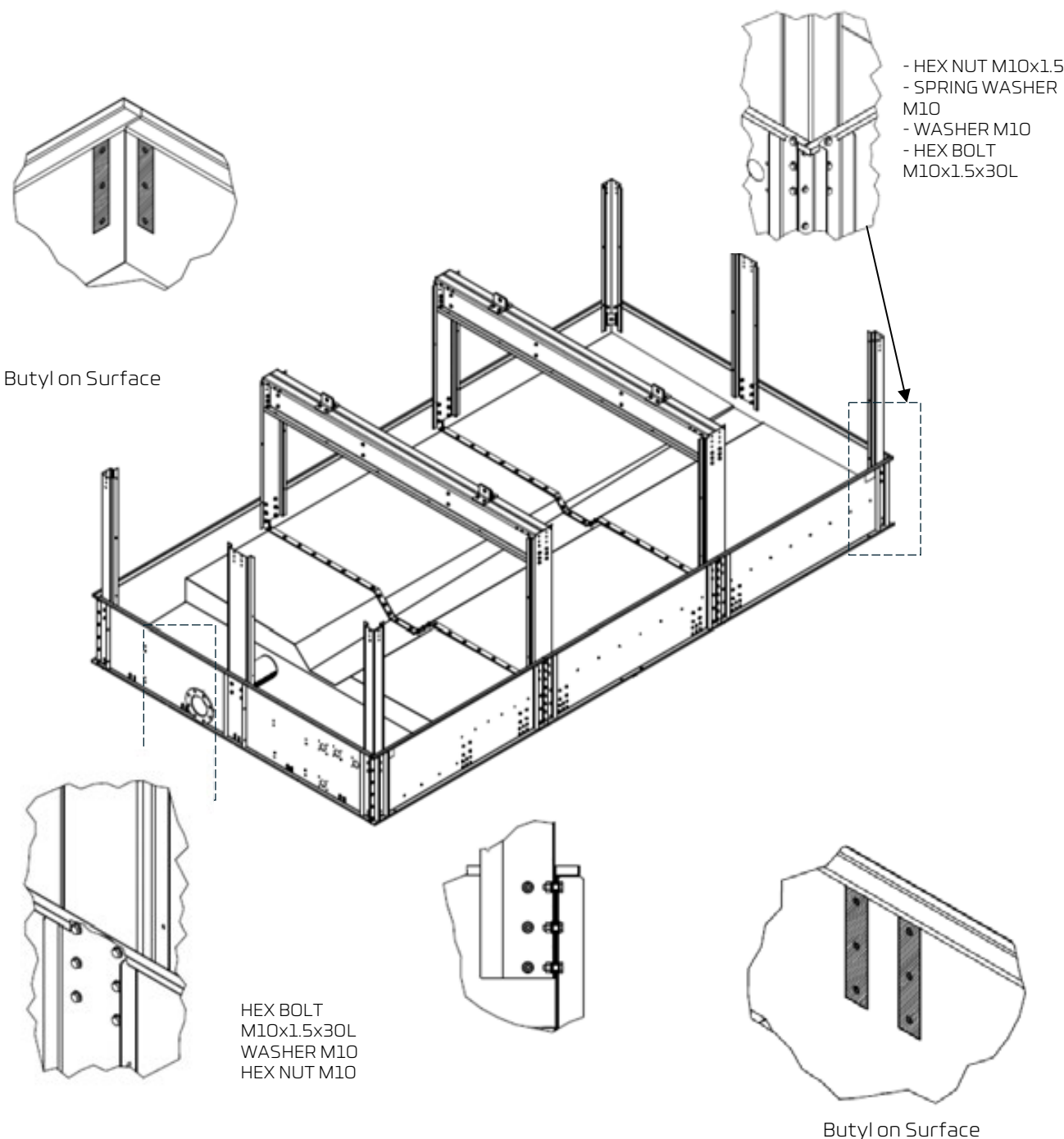


- SPRING WASHER M10
- HEX NUT M10x1.5



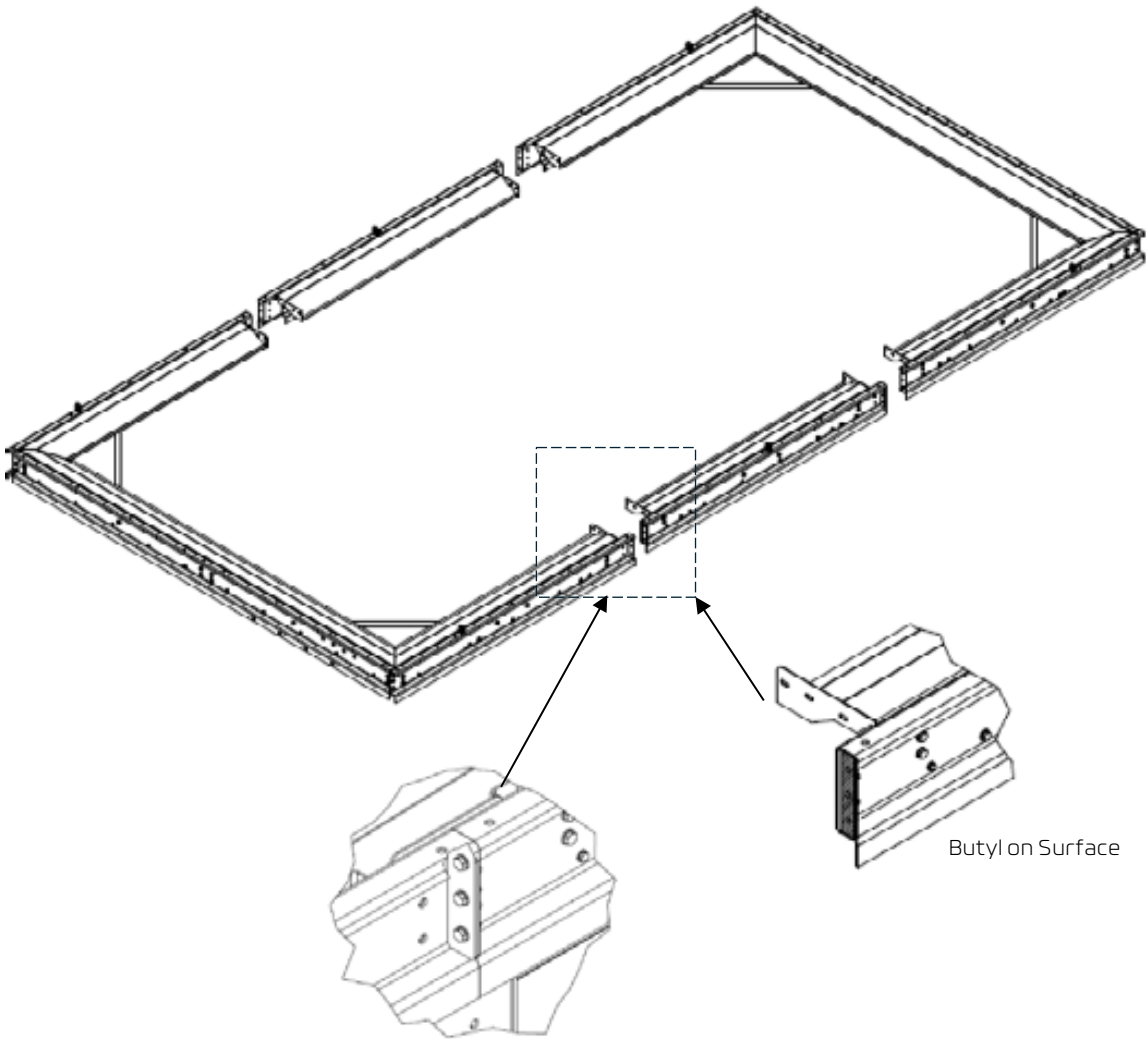
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

► Step 5 : Assembly Frame Support with BASIN Set Assembly

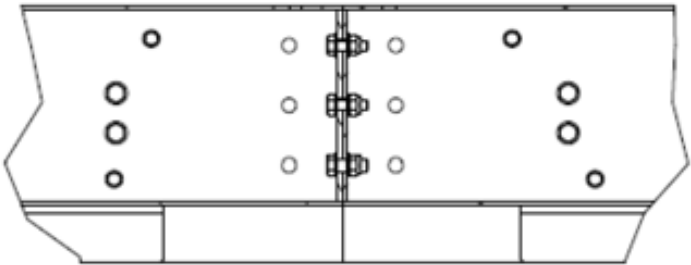


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

➤ Step 6 : Assembly Top Frame of BASIN SECTION

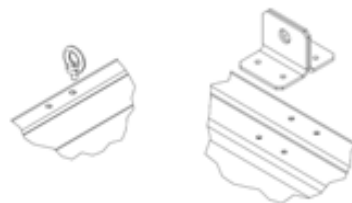
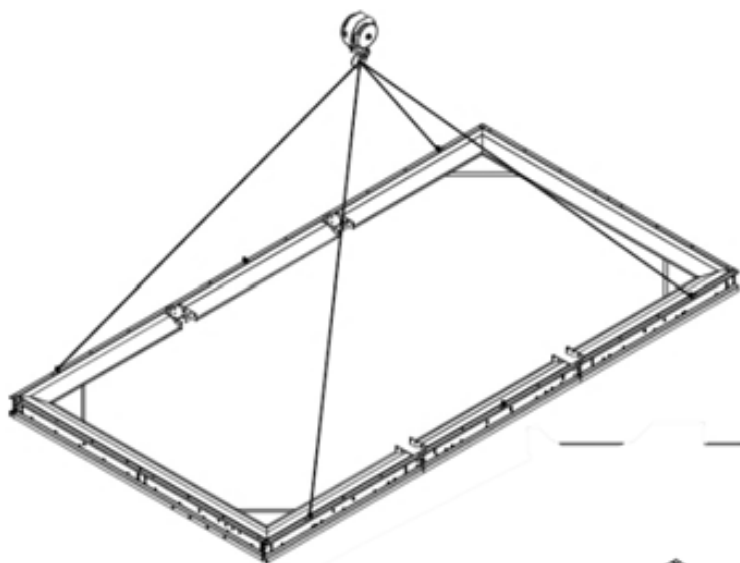


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



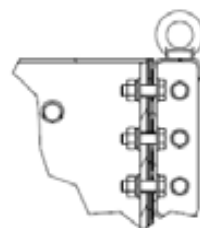
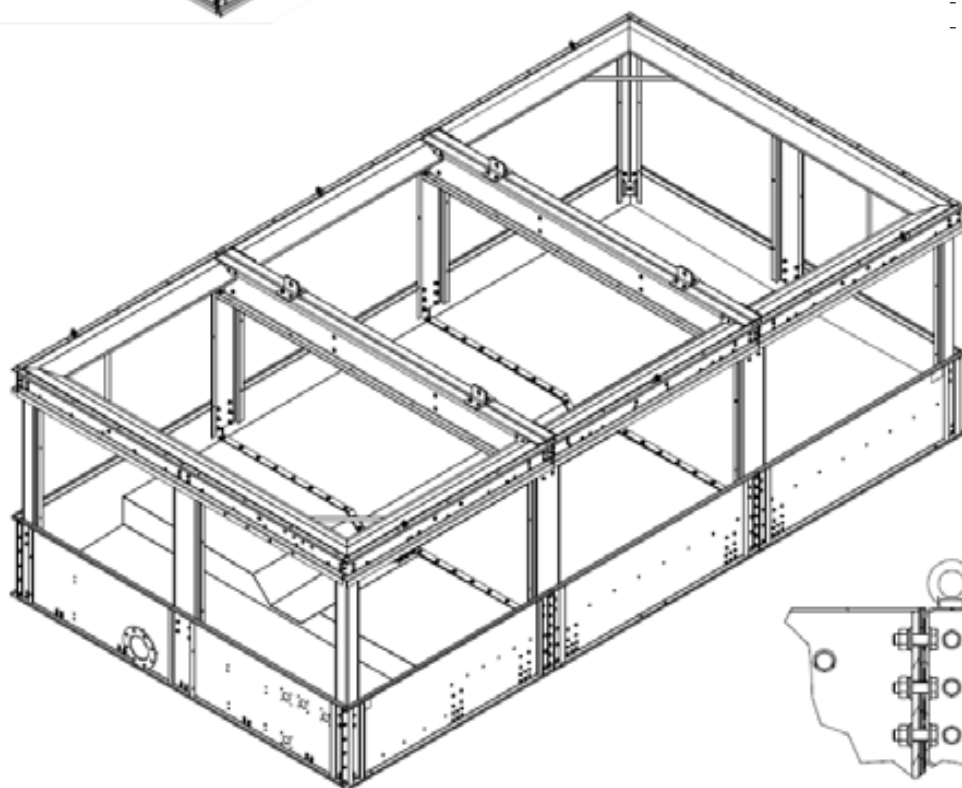
HEX BOLT
M8x1.25x25L
WASHER M8
HEX LOCK NUT
M8x1.25

► Step 7 : Install Top Frame to BASIN SECTION and assembly MID FRAME



Caution : **Remove Lifting lug and eye bolt** after assembly basin section finished.

- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x35L

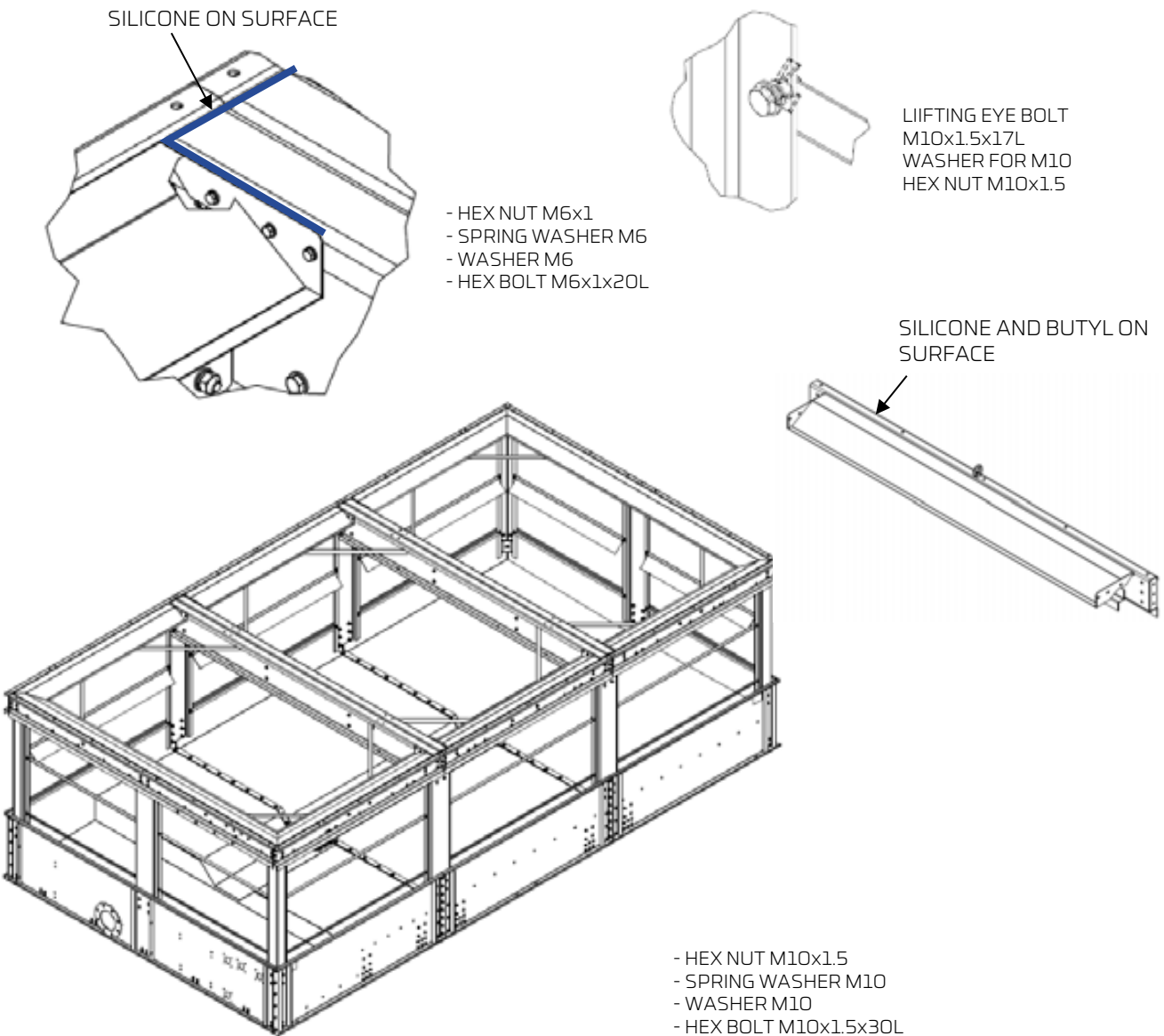


- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x35L

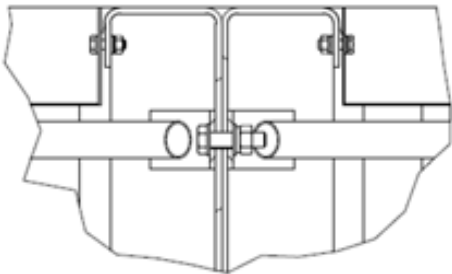
TIGHTENING TORQUE (A2-70)

M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

➤ Step 8 : Assembly support frame and Deflector



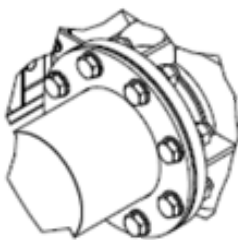
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



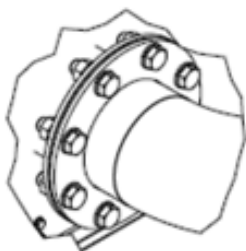
➤ Step 9 : Install water pipe and Ball Float Valve to BASIN SECTION



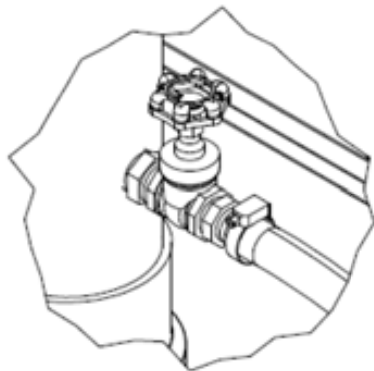
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x50L



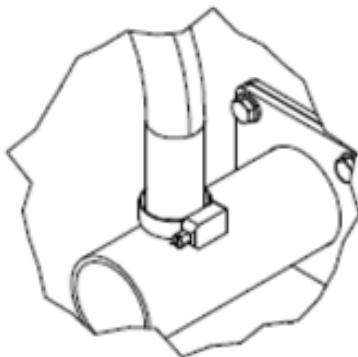
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L



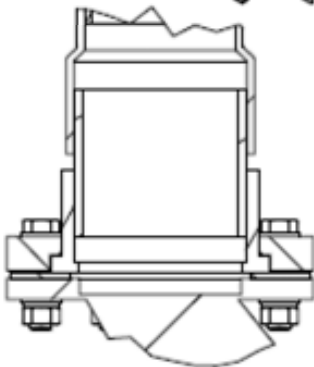
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"
TEXTILE HOSE 1"



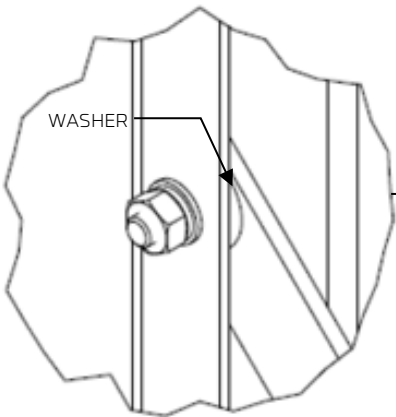
HOSE CLAMP 1"
TEXTILE HOSE 1"



HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

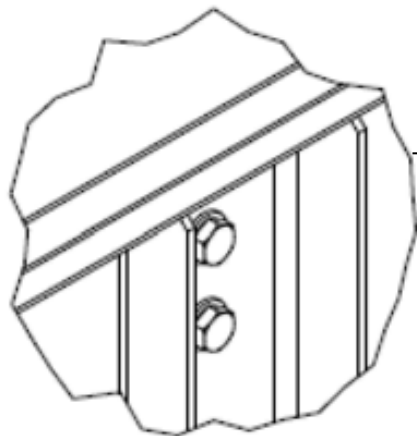
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

➤ Step 10 : Pump set assembly and install to BASIN SECTION

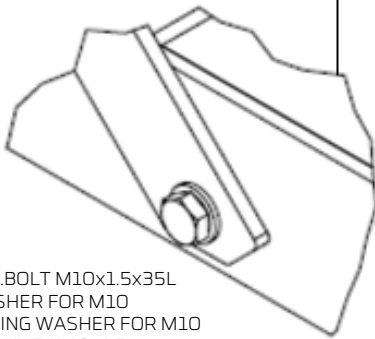


WASHER

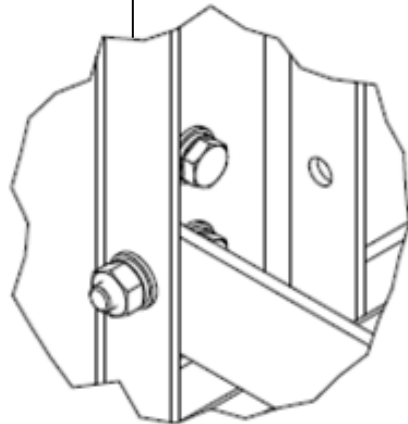
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



HEX.BOLT M10x1.5x25L
WASHER FOR M10
HEX.NUT LOCK M10x1.5



HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5

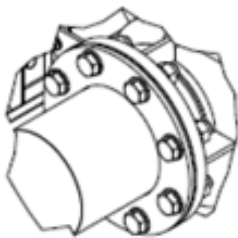
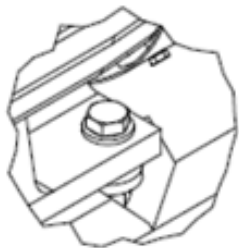


HEX.BOLT M10x1.5x30L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5

TIGHTENING TORQUE (A2-70)

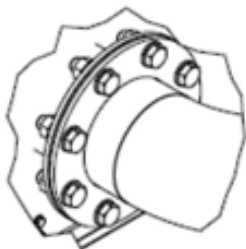
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

➤ Step 10 : Pump set assembly and install to BASIN SECTION

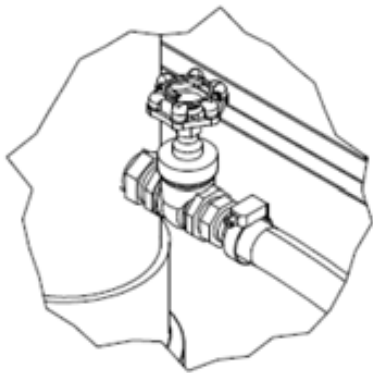
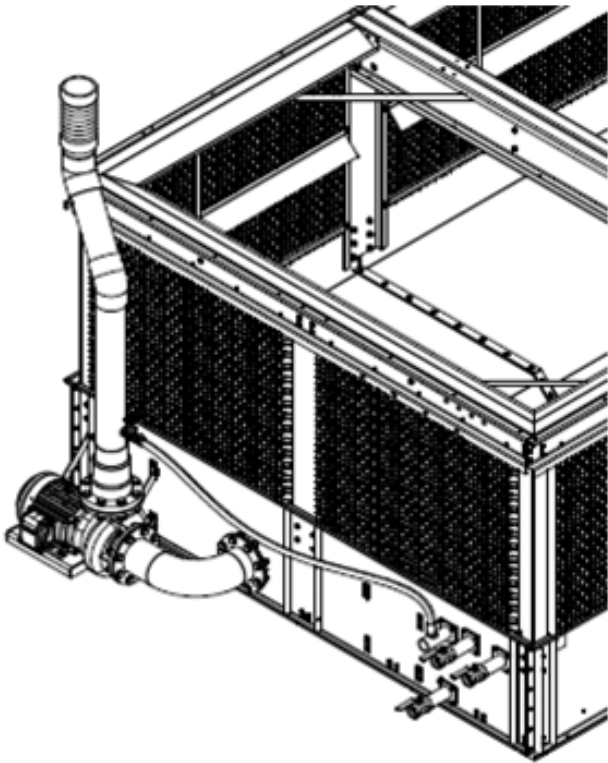


HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L

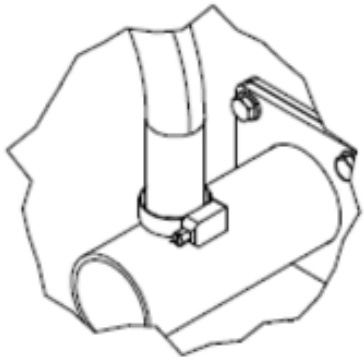
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x45L



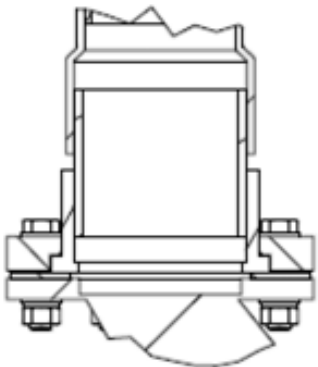
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"
TEXTILE HOSE 1"



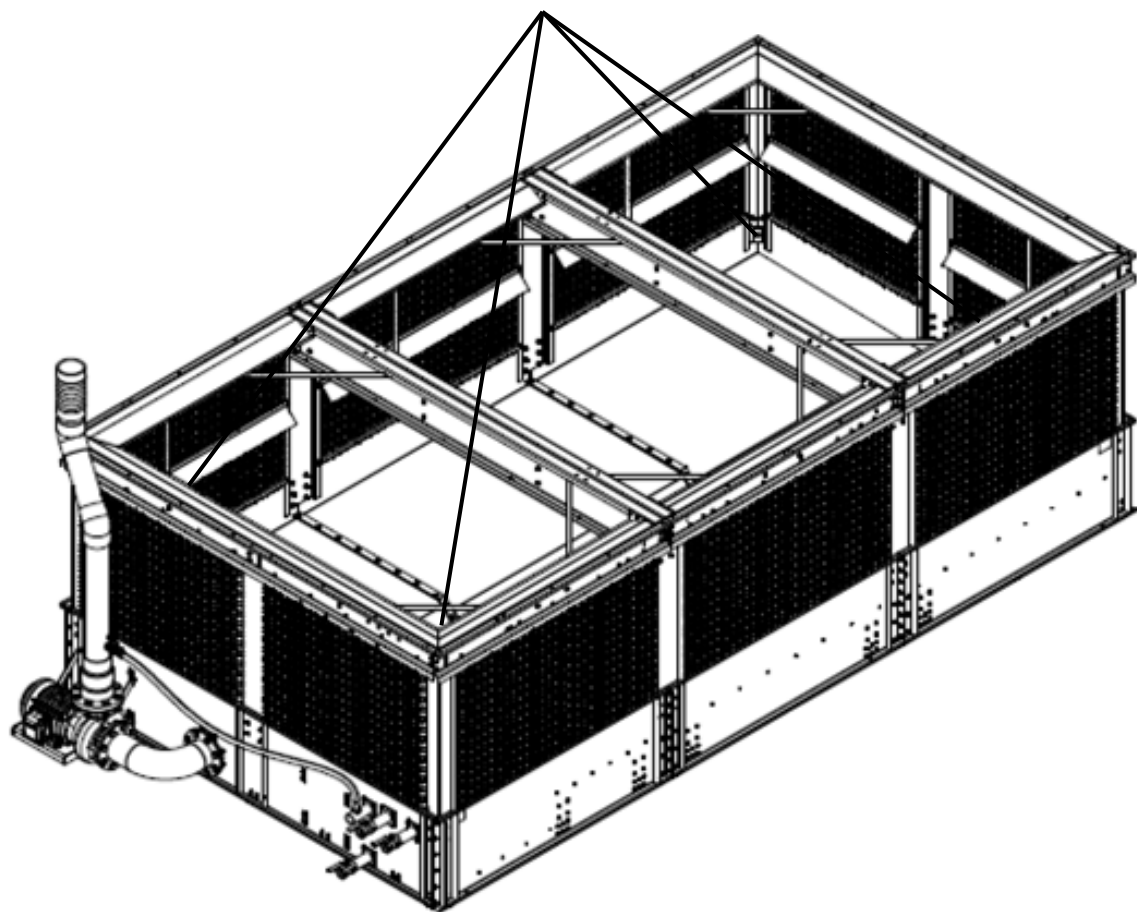
HOSE CLAMP 1"
TEXTILE HOSE 1"



HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

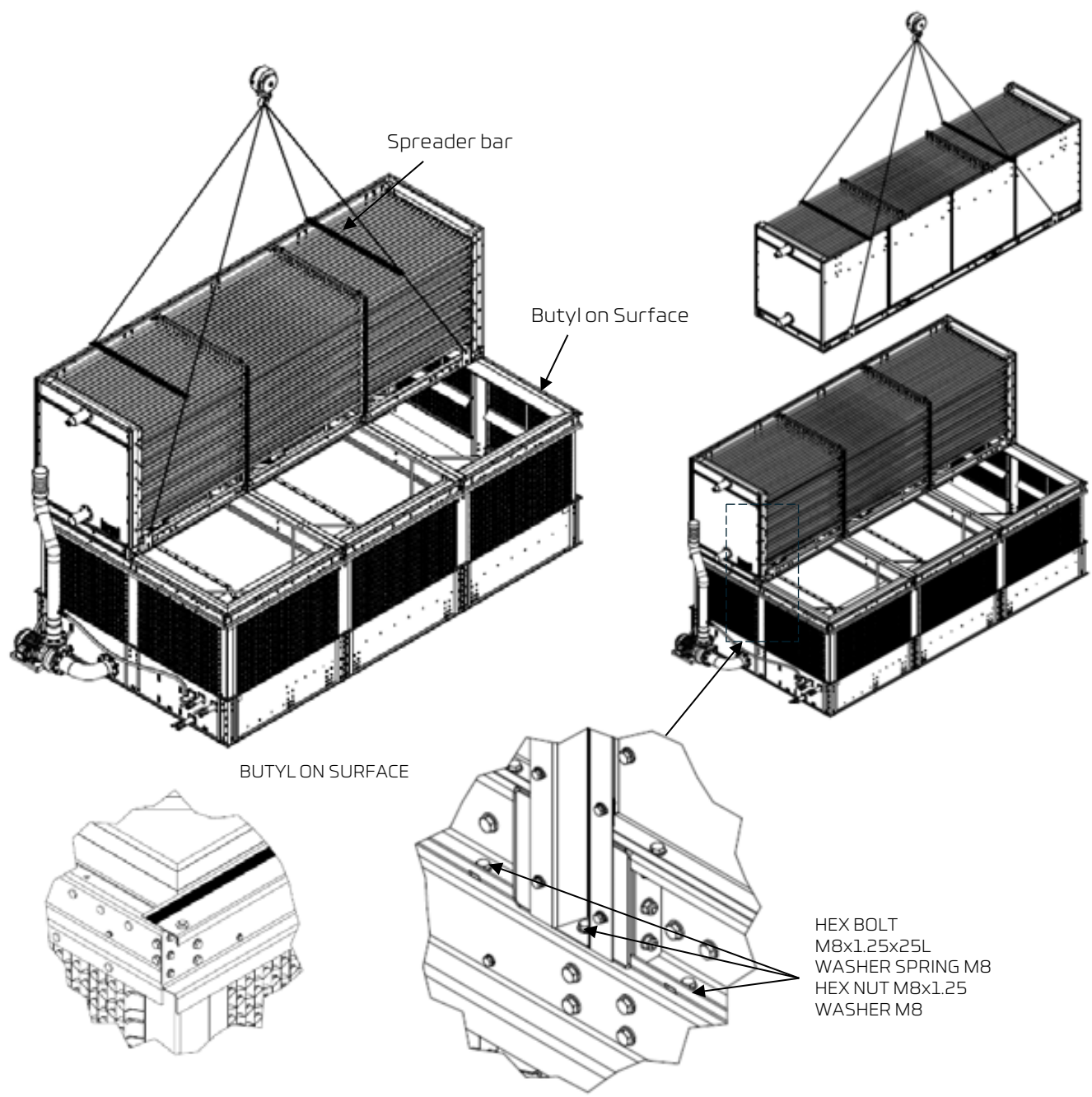
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Move BASIN SECTION to position

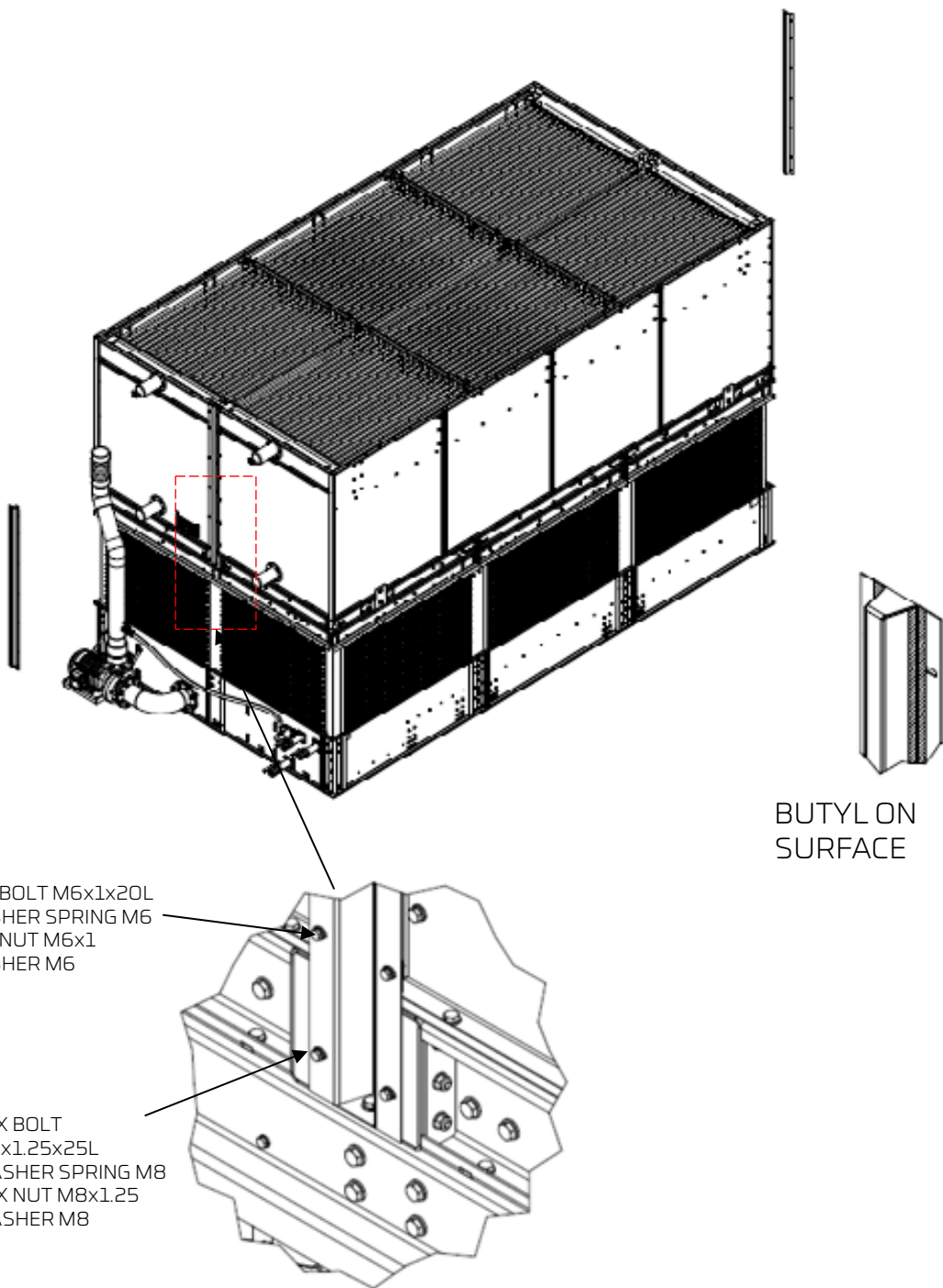


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Assembly Coil Section L and R on Basin

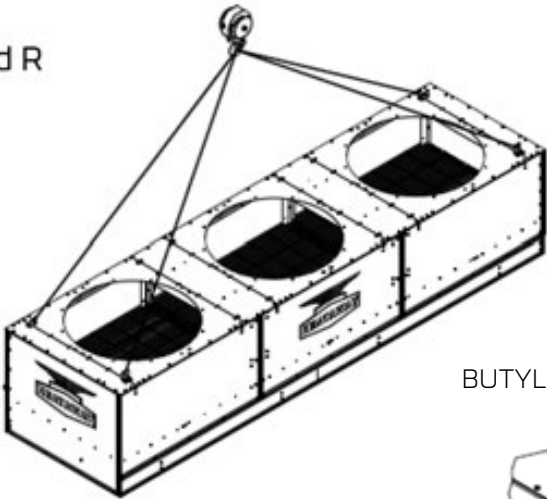


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

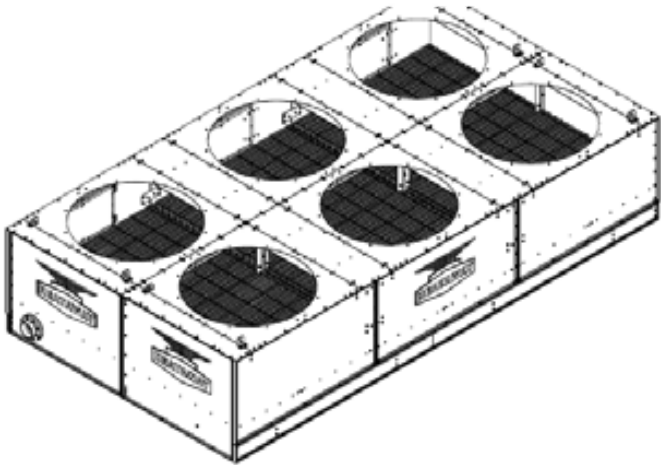
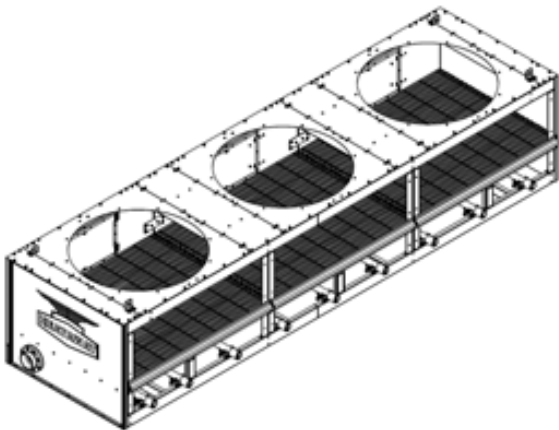


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

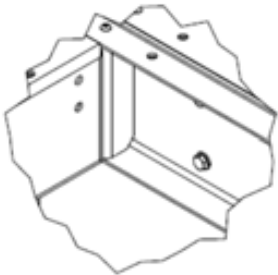
>> Assembly FAN Section L and R



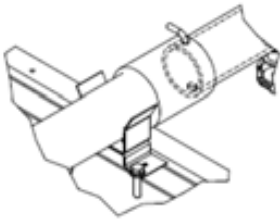
BUTYL ON SURFACE



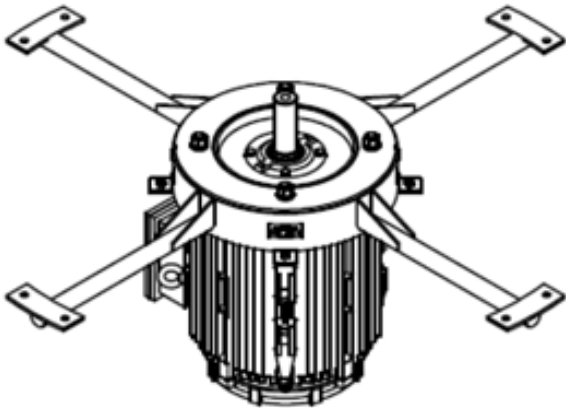
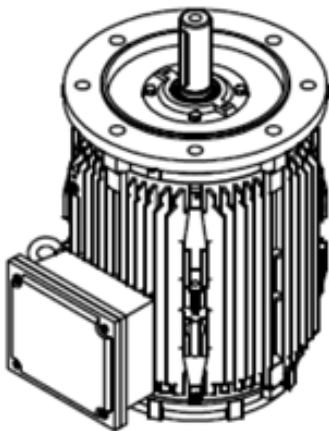
HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8



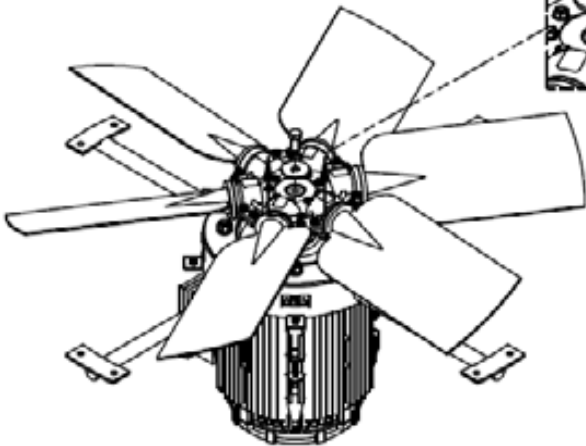
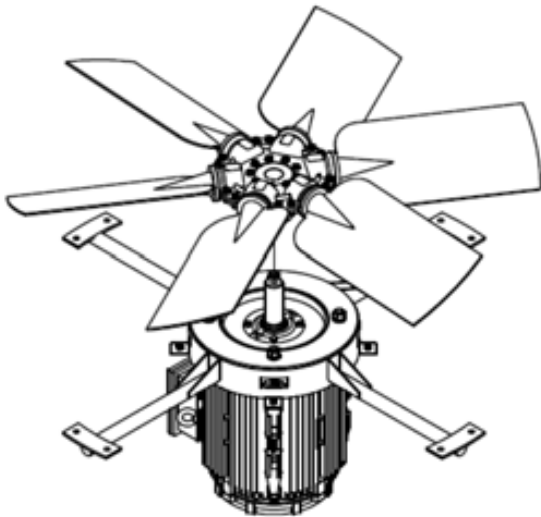
HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

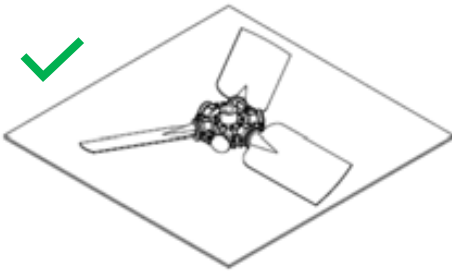


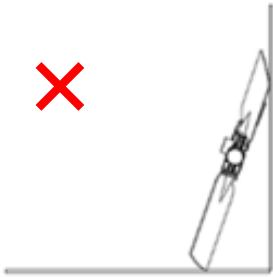
HEX NUT M16
 SPRING WASHER FOR M16
 WASHER FOR M16
 HEX BOLT M16x1.5x60L



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

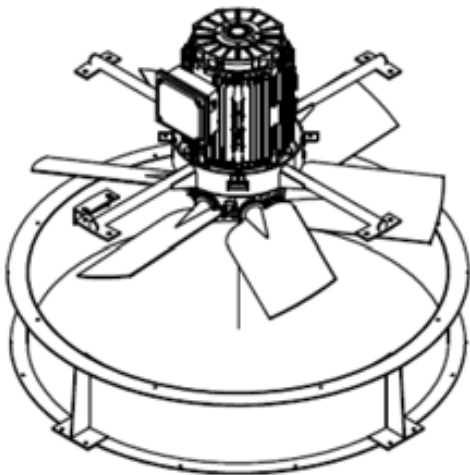
For prevents of FAN Blade warping or deformation please store by keep retaining plate side on the floor.

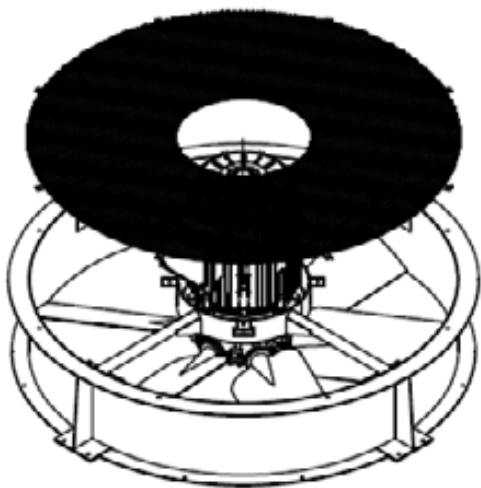
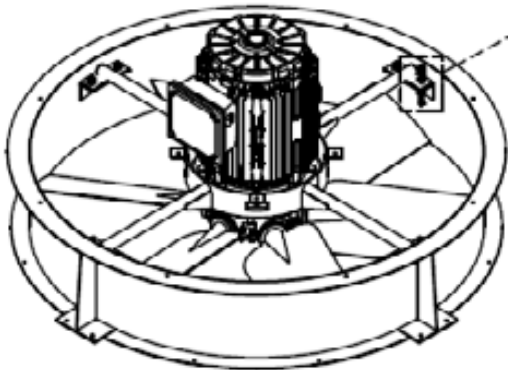



EC9 RIGGING & ASSEMBLY INSTRUCTION

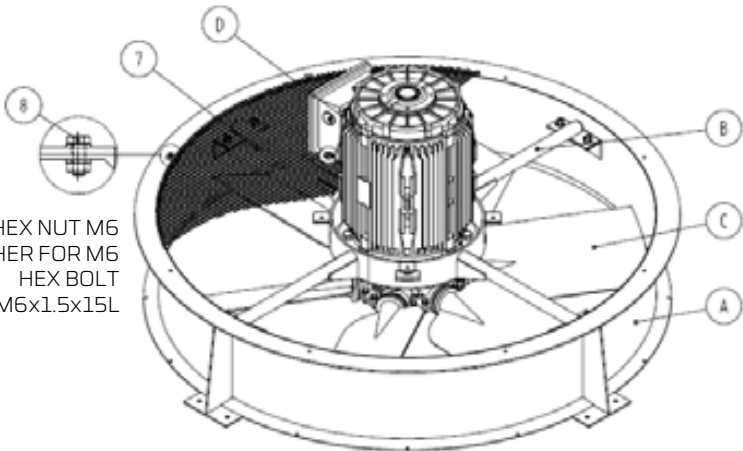
80



HEX NUT M10
 SPRING WASHER FOR M10
 WASHER FOR M10
 HEX BOLT M10x1.5x30L



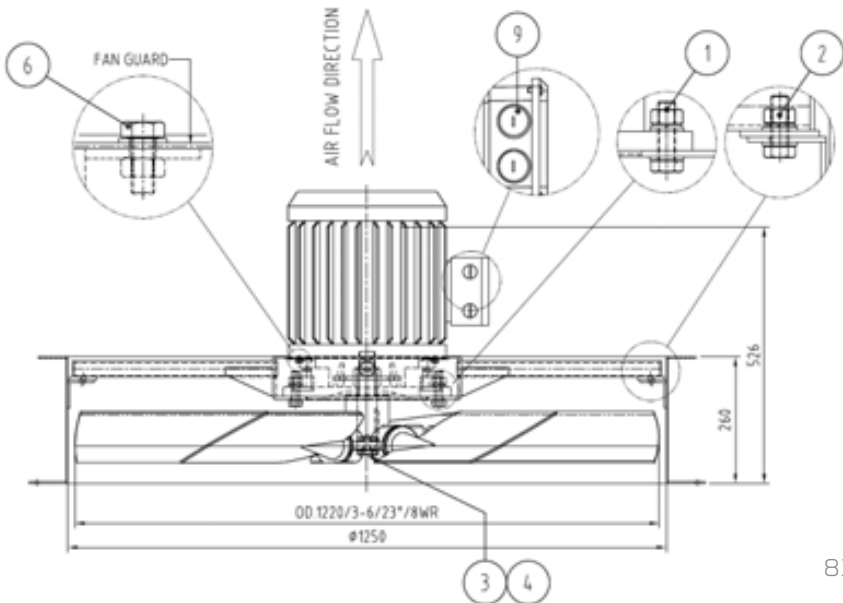
HEX NUT M6
 WASHER FOR M6
 HEX BOLT
 M6x1.5x15L



HEX NUT M16
 SPRING WASHER FOR
 M16
 WASHER FOR M16
 HEX BOLT
 M16x1.5x60L

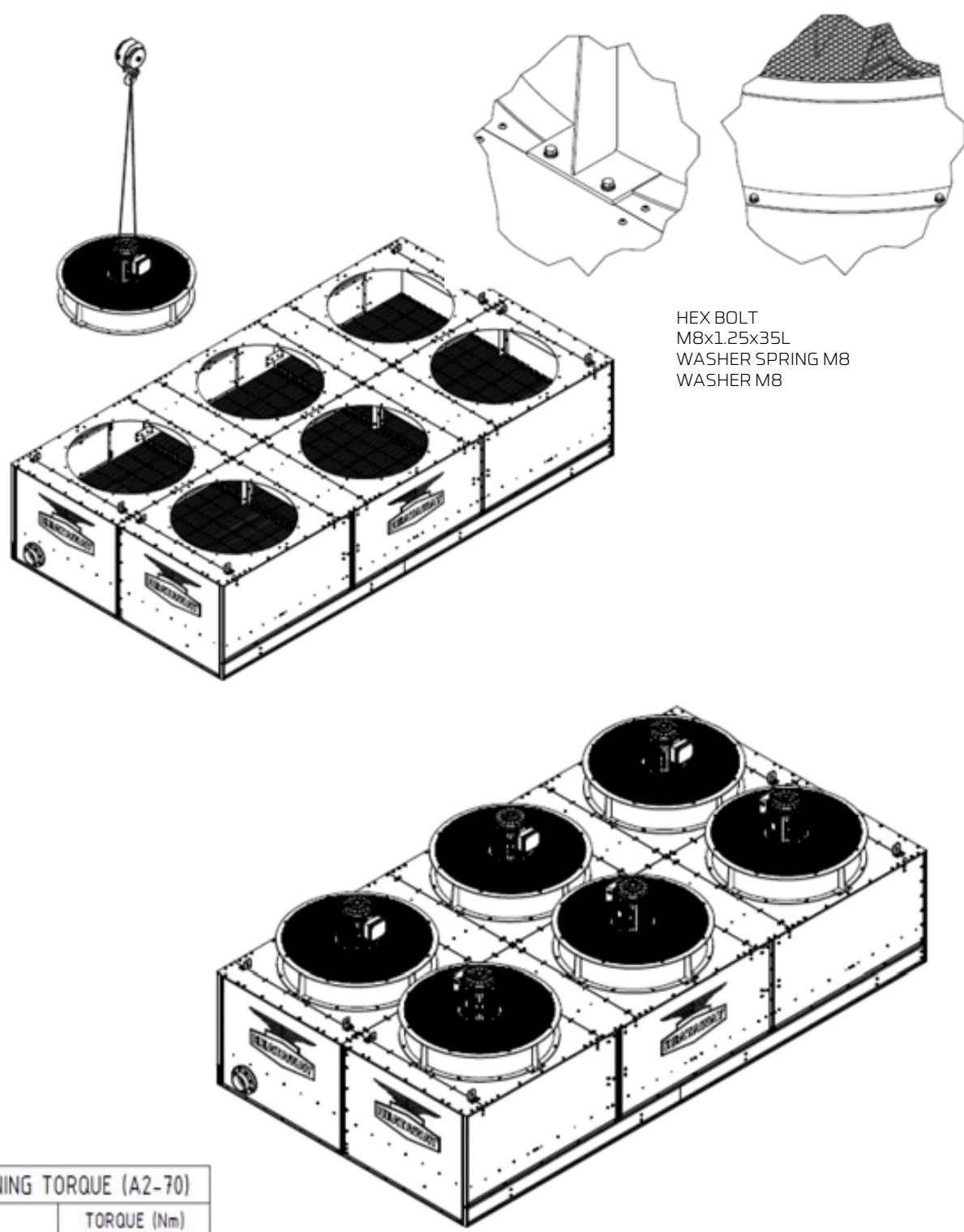
HEX NUT M10
 SPRING WASHER FOR
 M10
 WASHER FOR M10
 HEX BOLT
 M10x1.5x30L

HEX NUT M8
 WASHER FOR M8
 HEX BOLT
 M8x1.5x15L



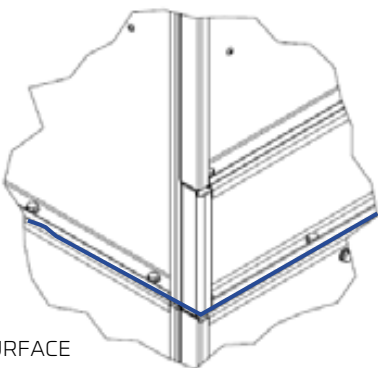
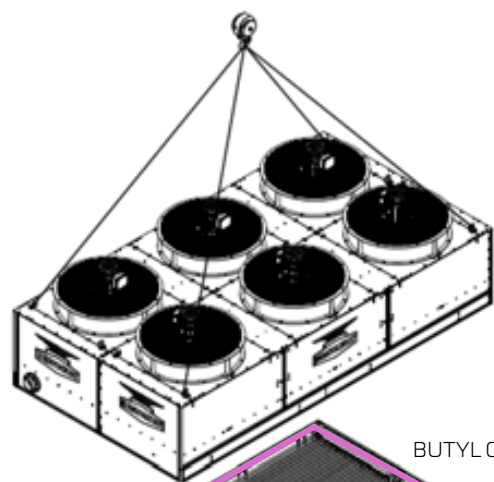
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Install FAN set With Motor to FAN Section



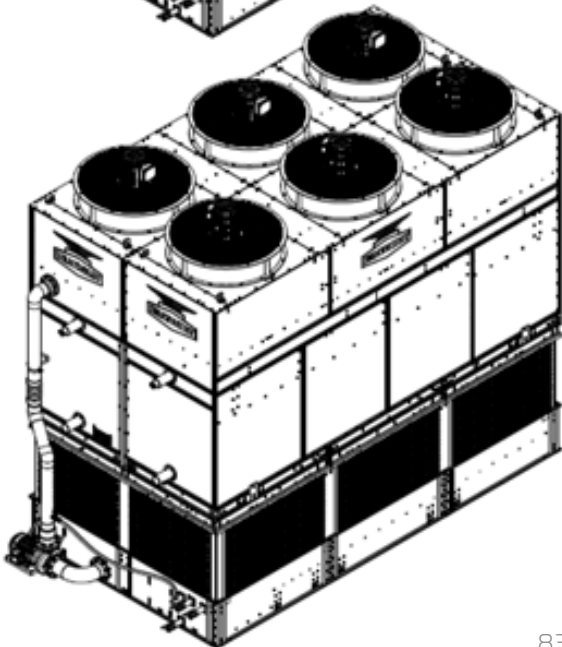
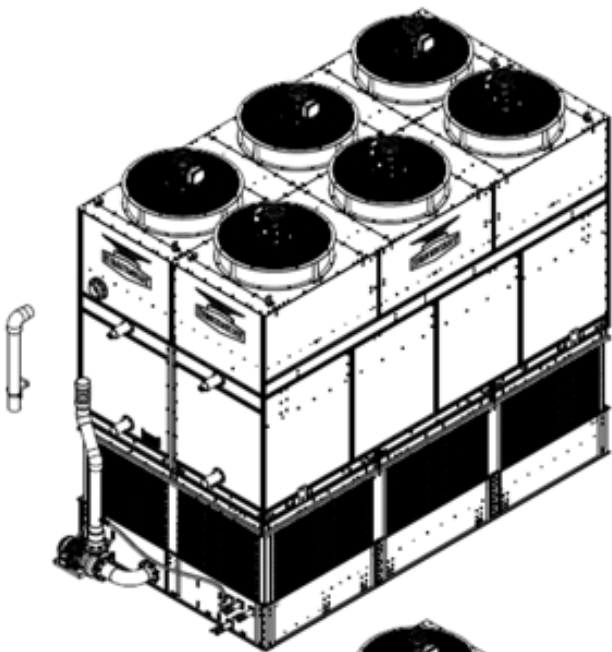
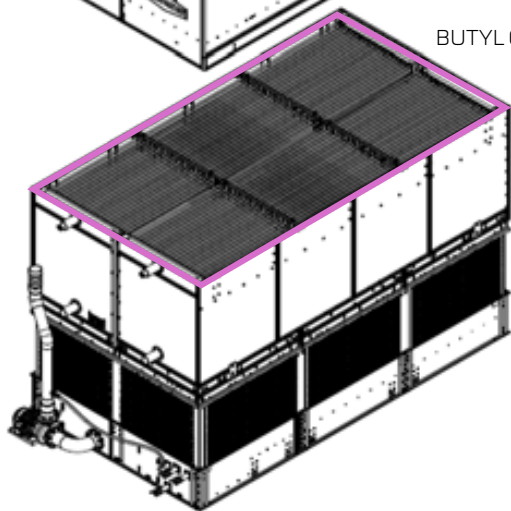
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Install FAN Section



HEX BOLT M8x1.25x20L
WASHER SPRING M8
WASHER M8
HEX NUT M8 1.25

BUTYL ON SURFACE



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

12' X 12'

Model

EC9-1650-1212C-S

EC9-1890-1212C-M

EC9-1980-1212C-L

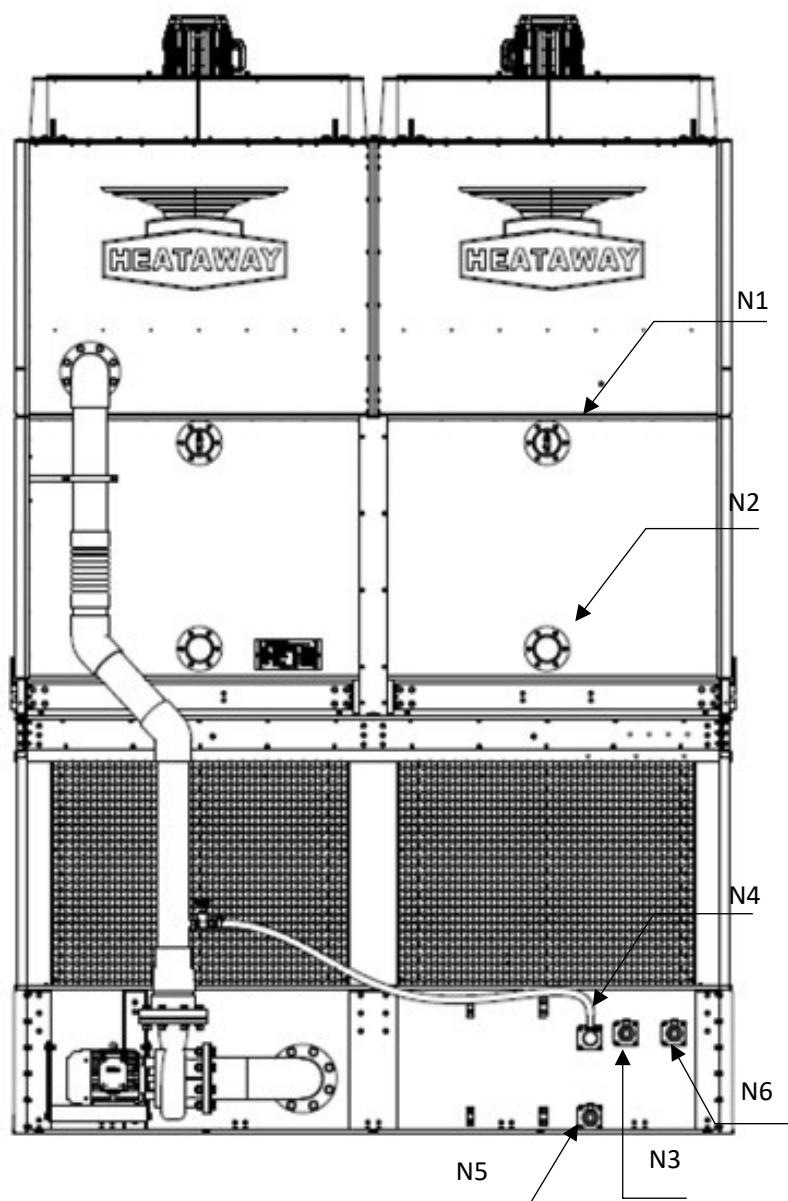
EC9-2150-1212C-M

EC9-2350-1212C-M

EC9-2460-1212C-L

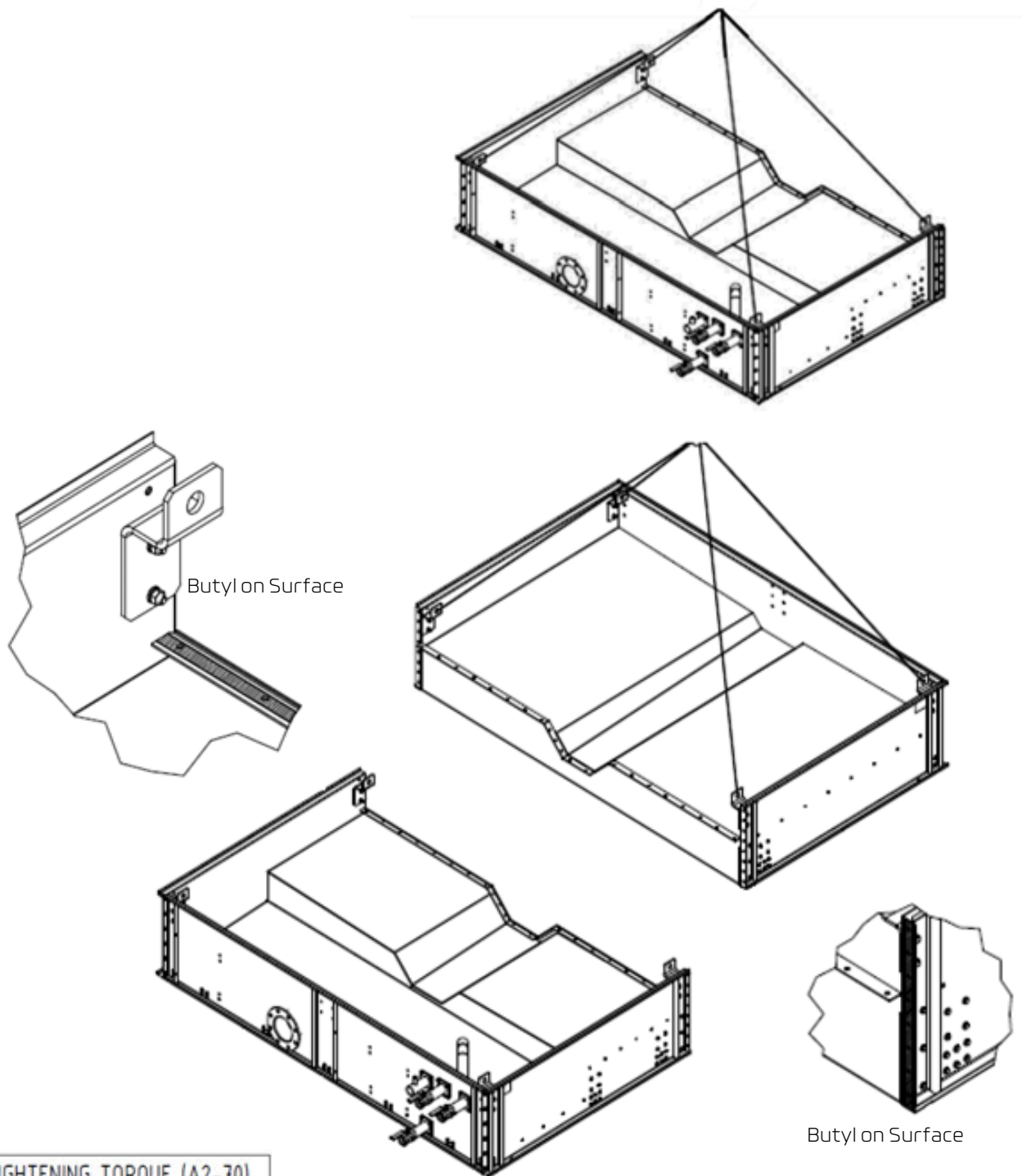


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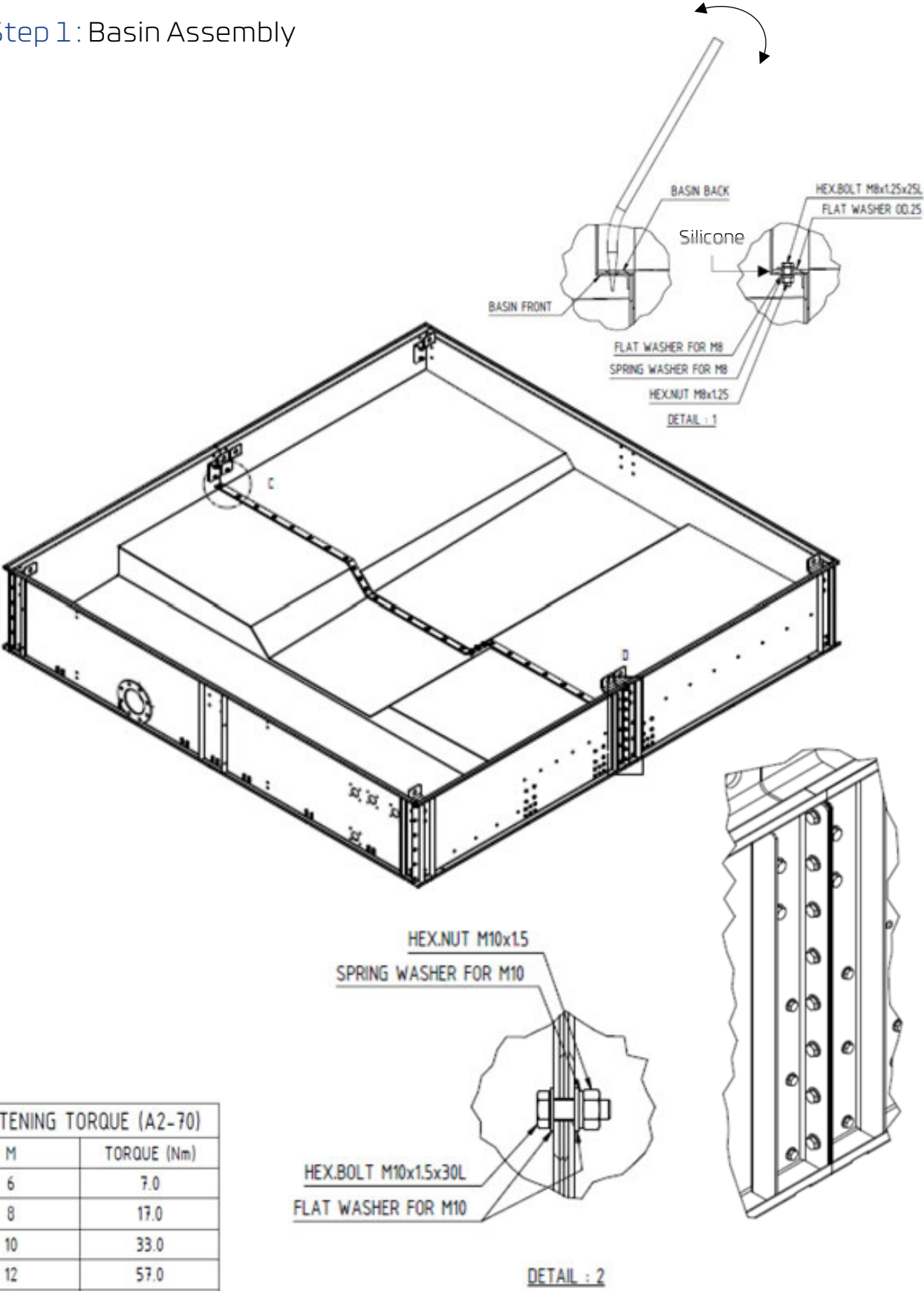
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

Step 1: Basin Assembly



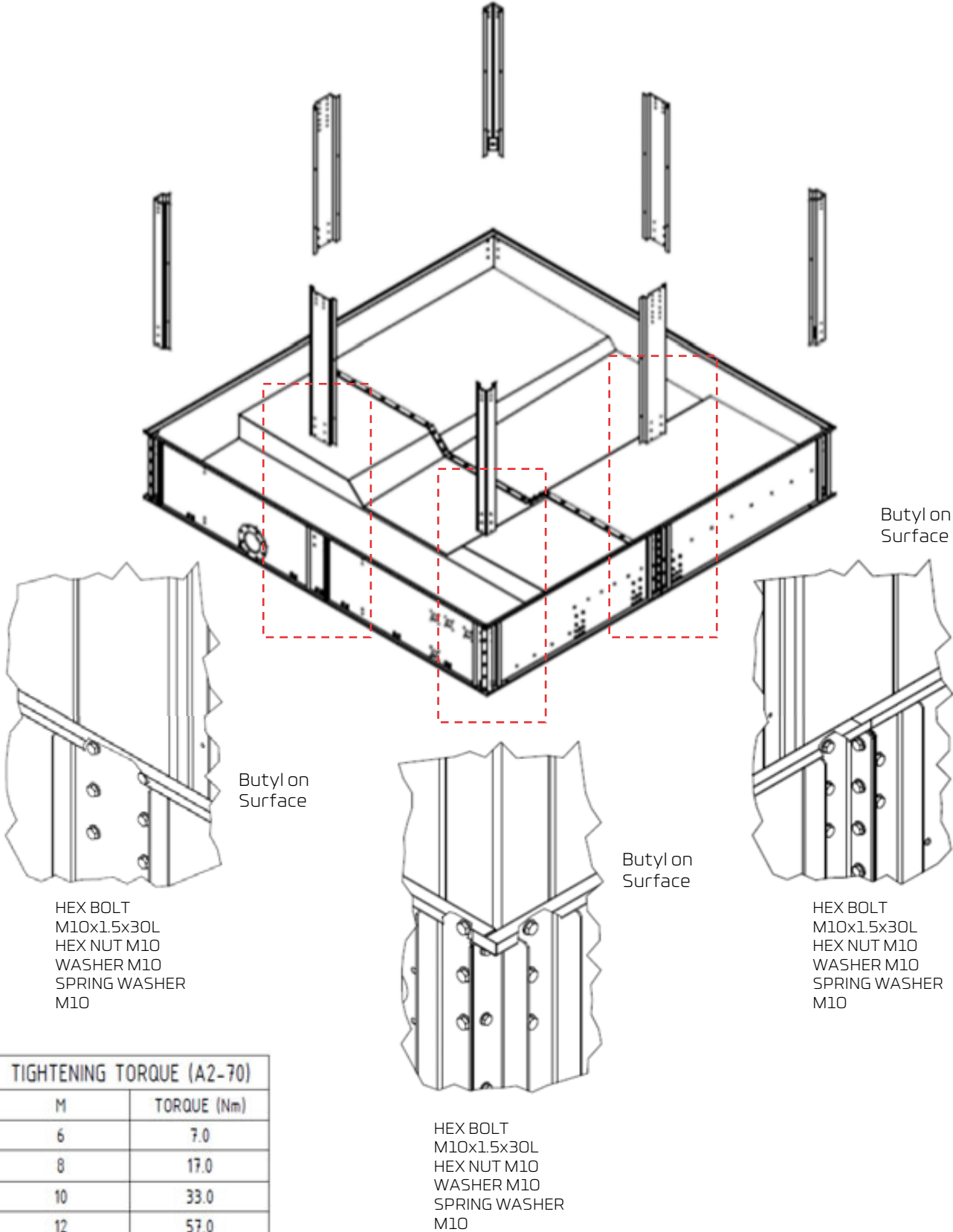
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 1: Basin Assembly



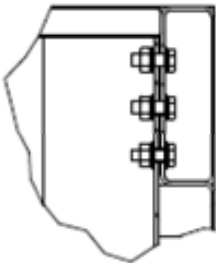
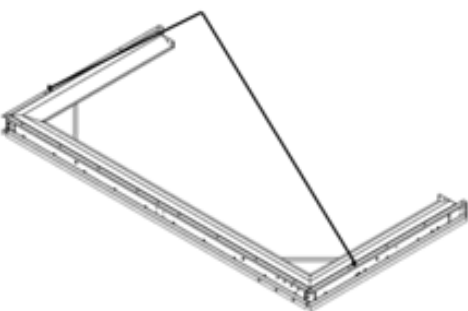
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 2 : Support Frame Assembly

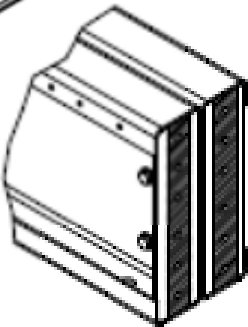
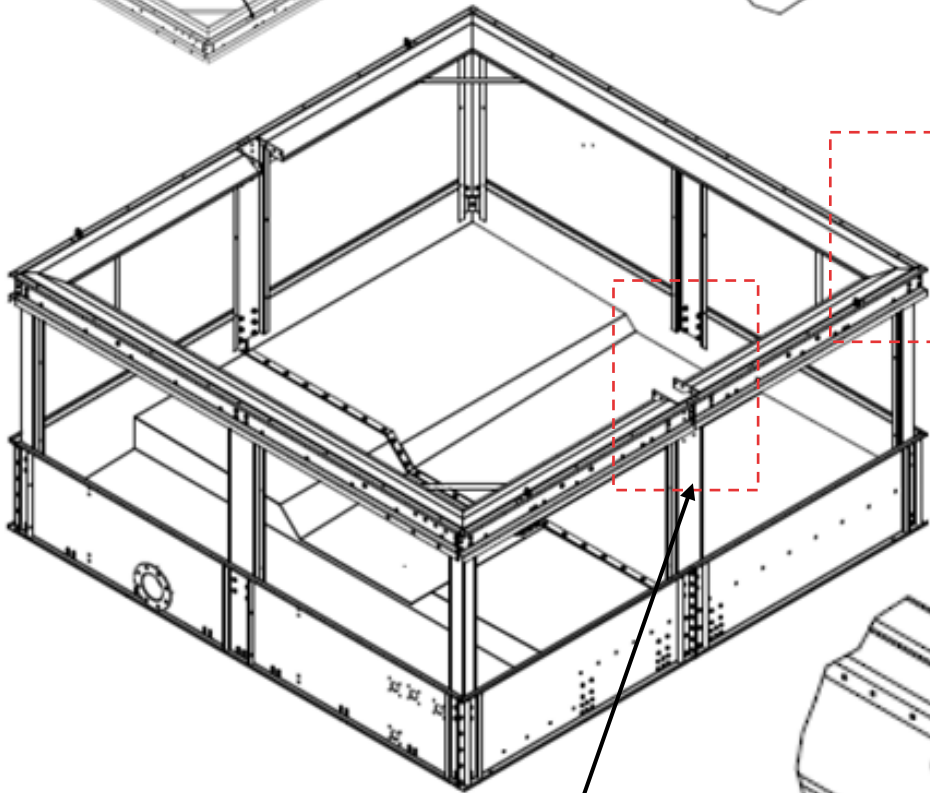


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

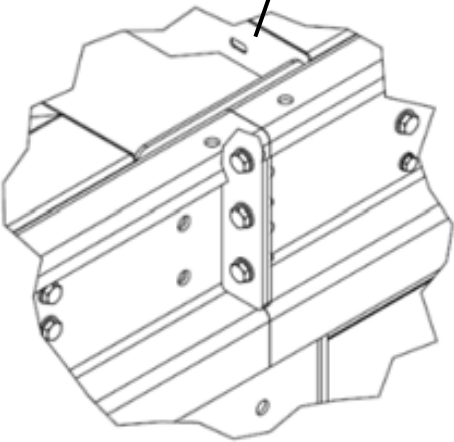
Step 3 : Frame Assembly



HEX BOLT
M8x1.25x25L
HEX LOCK NUT
M8x1.25
WASHER M8



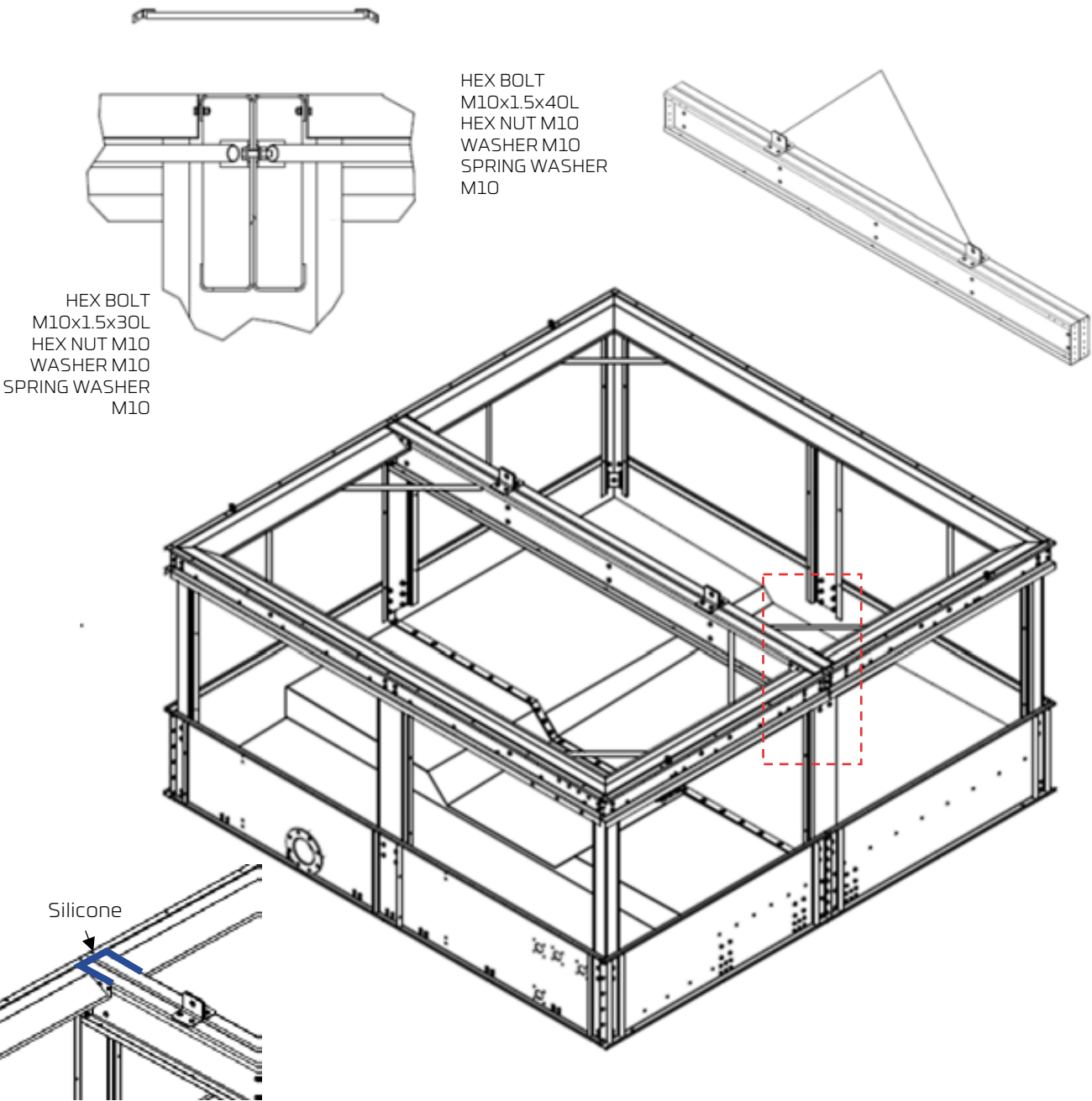
Butyl on Surface



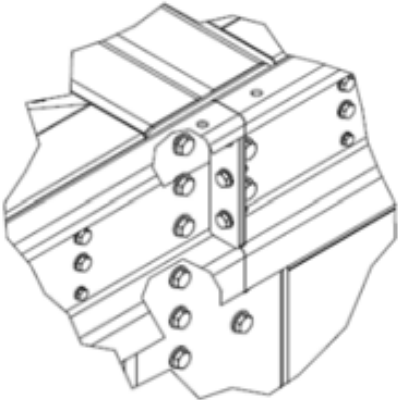
HEX BOLT
M8x1.25x25L
HEX LOCK NUT
M8x1.25
WASHER M8

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 4 : Frame Beam and Support Assembly

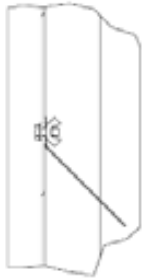
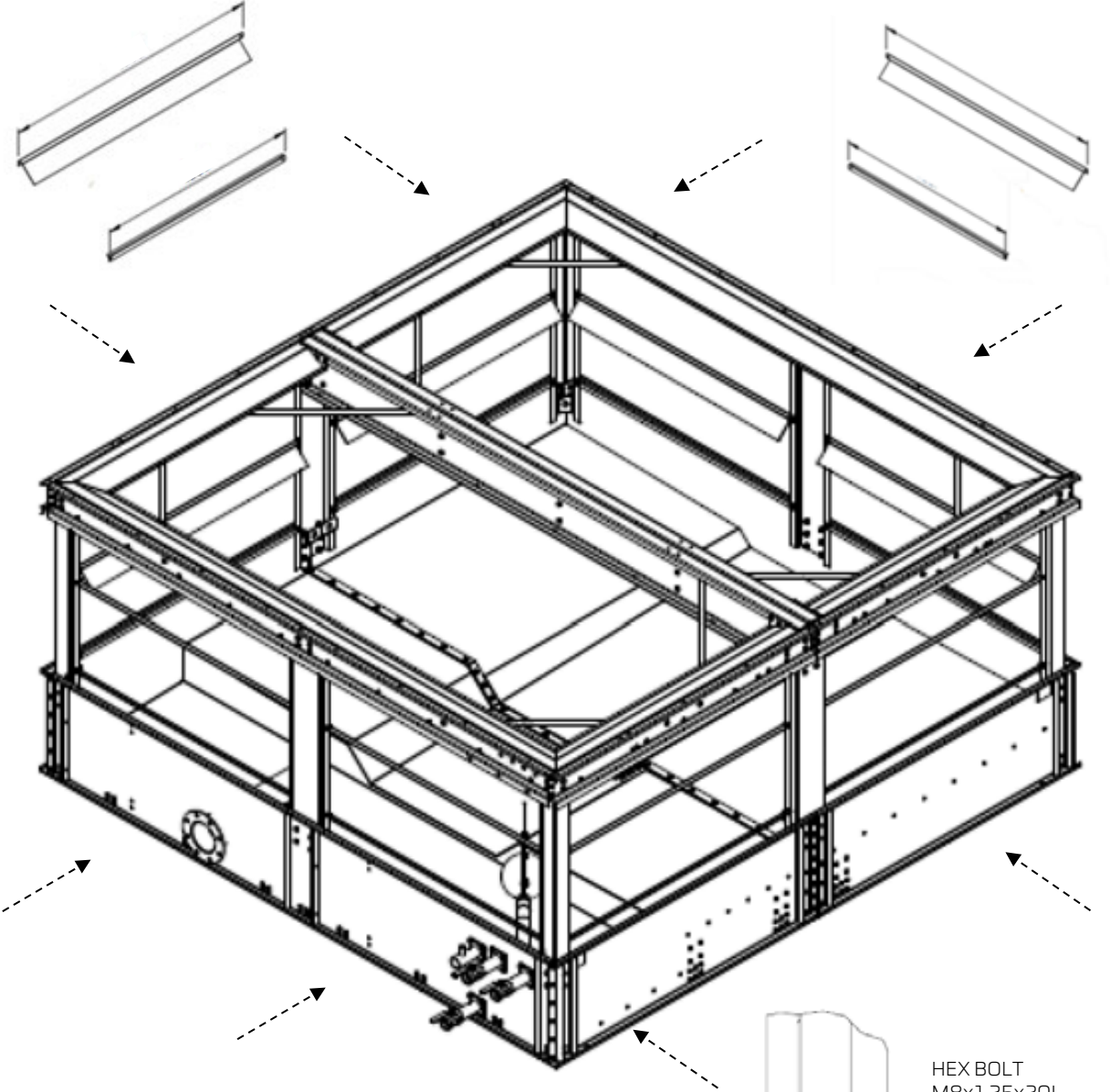


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



HEX BOLT
M10x1.5x30L
HEX NUT M10
WASHER M10
SPRING WASHER
M10

Step 5 : Water Deflect Assembly



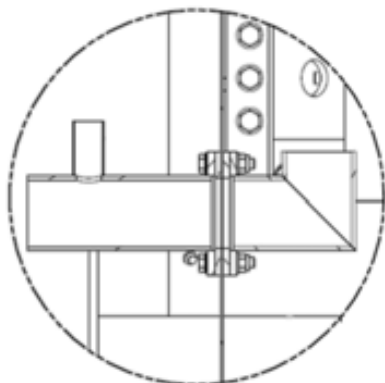
HEX BOLT
M8x1.25x20L
WING NUT M8
WASHER M8



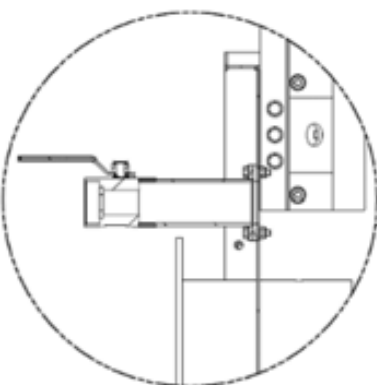
HEX BOLT
M6x1.25x20L
HEX LOCK NUT
M6x1.25
WASHER M6
SPRING WASHER M6

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

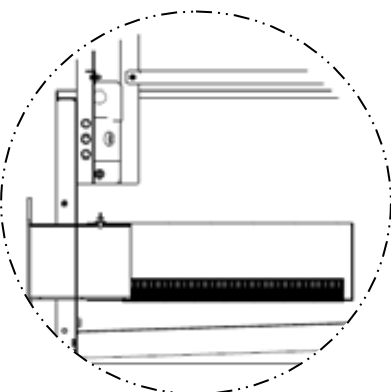
Step 6 : Piping and Valve Assembly



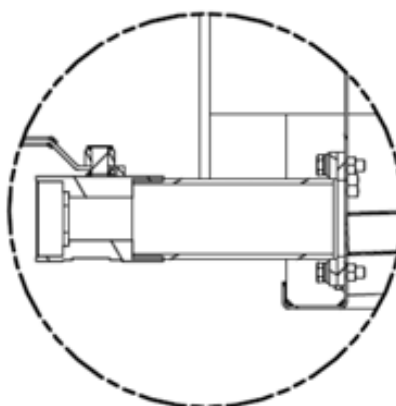
PIPE OVER FLOW
BOLT M8x1.25x40L
NR GASKET
WASHER FOR M8
HEX.LOCK NUT M8X1.25



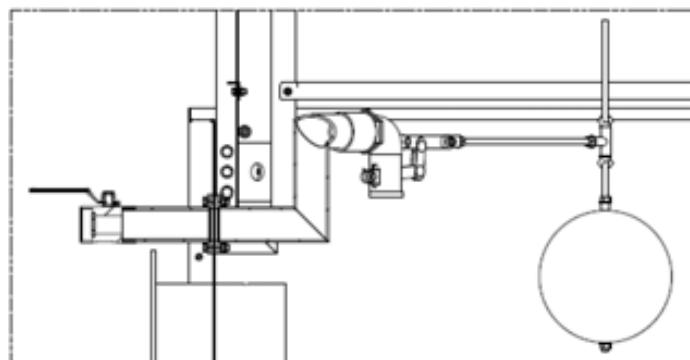
BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8X1.25



PIPE WITH STRAINER
WING SCREW - M8 x 12
WASHER



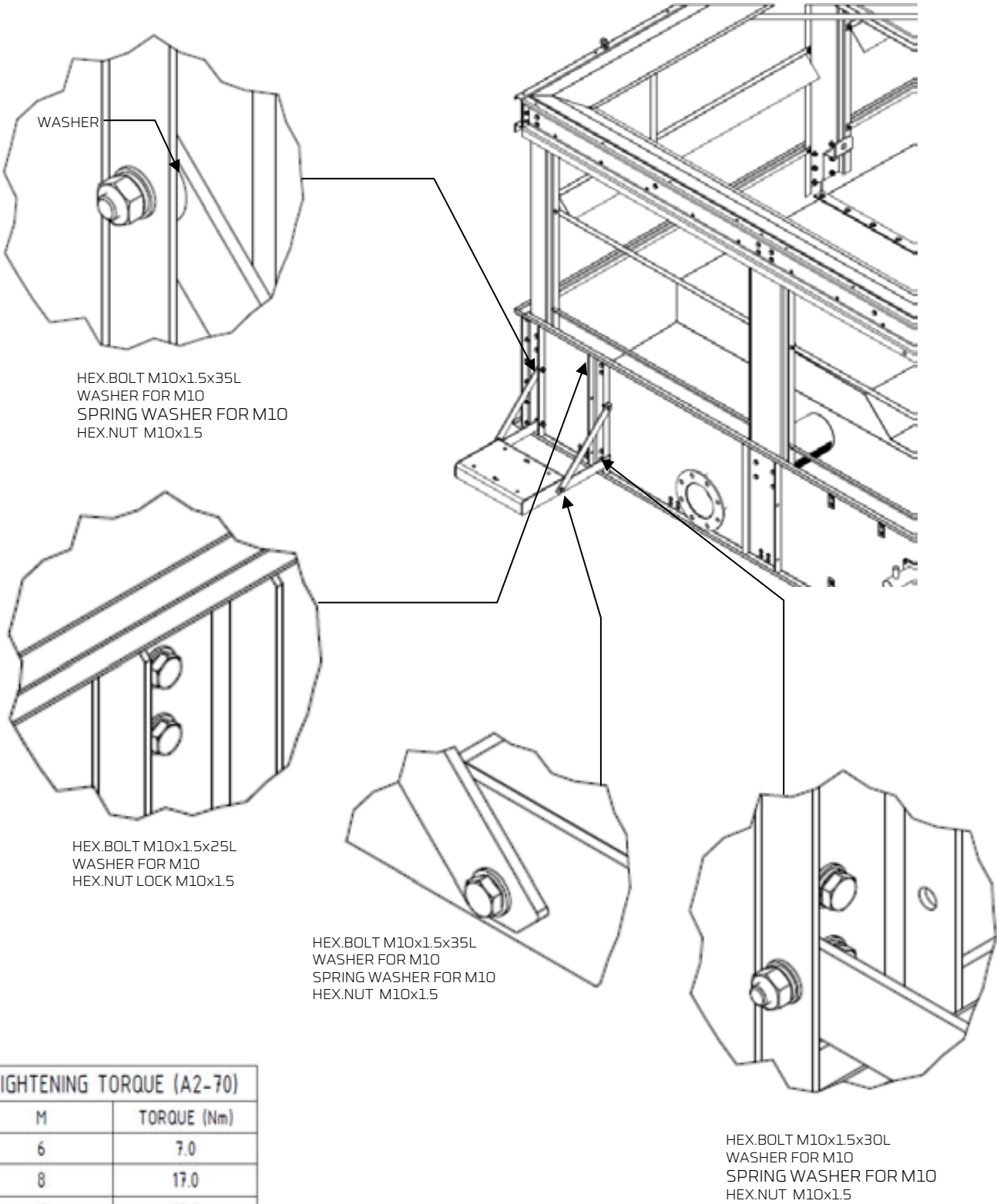
BALL VALVE
DRAIN WATER PIPE
BOLT M8x1.25x30L
SPRING WASHER M8
WASHER FOR M8
NR GASKET
HEX.LOCK NUT M8X1.25



BALL VALVE
FLOAT VALVE
WASHER FOR M8
NR GASKET
PIPE MAKE UP WATER 2"
FLOAT VALVE
BOLT M8x1.25x30L
SPRING WASHER M8
HEX.LOCK NUT M8X1.25

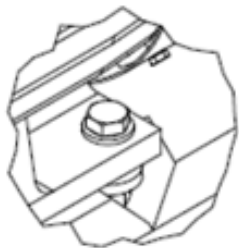
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Step 7 : Water Pump Base Assembly

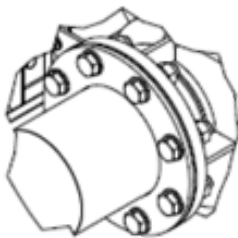


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

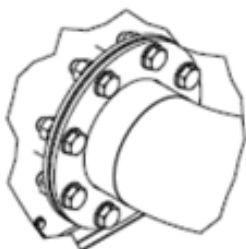
Step 8 : Water Pump pipe Assembly



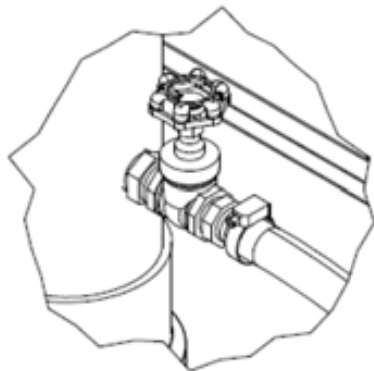
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x45L



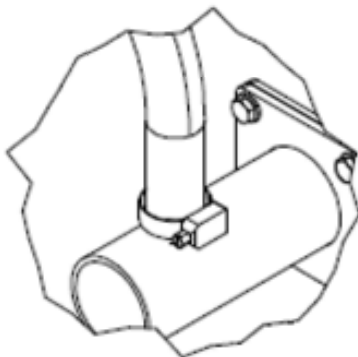
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L



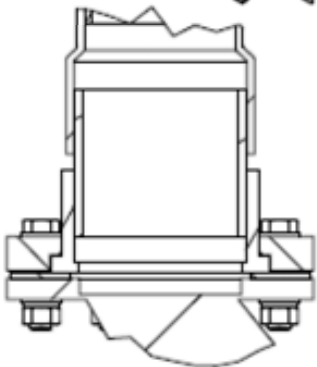
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"
TEXTILE HOSE 1"



HOSE CLAMP 1"
TEXTILE HOSE 1"

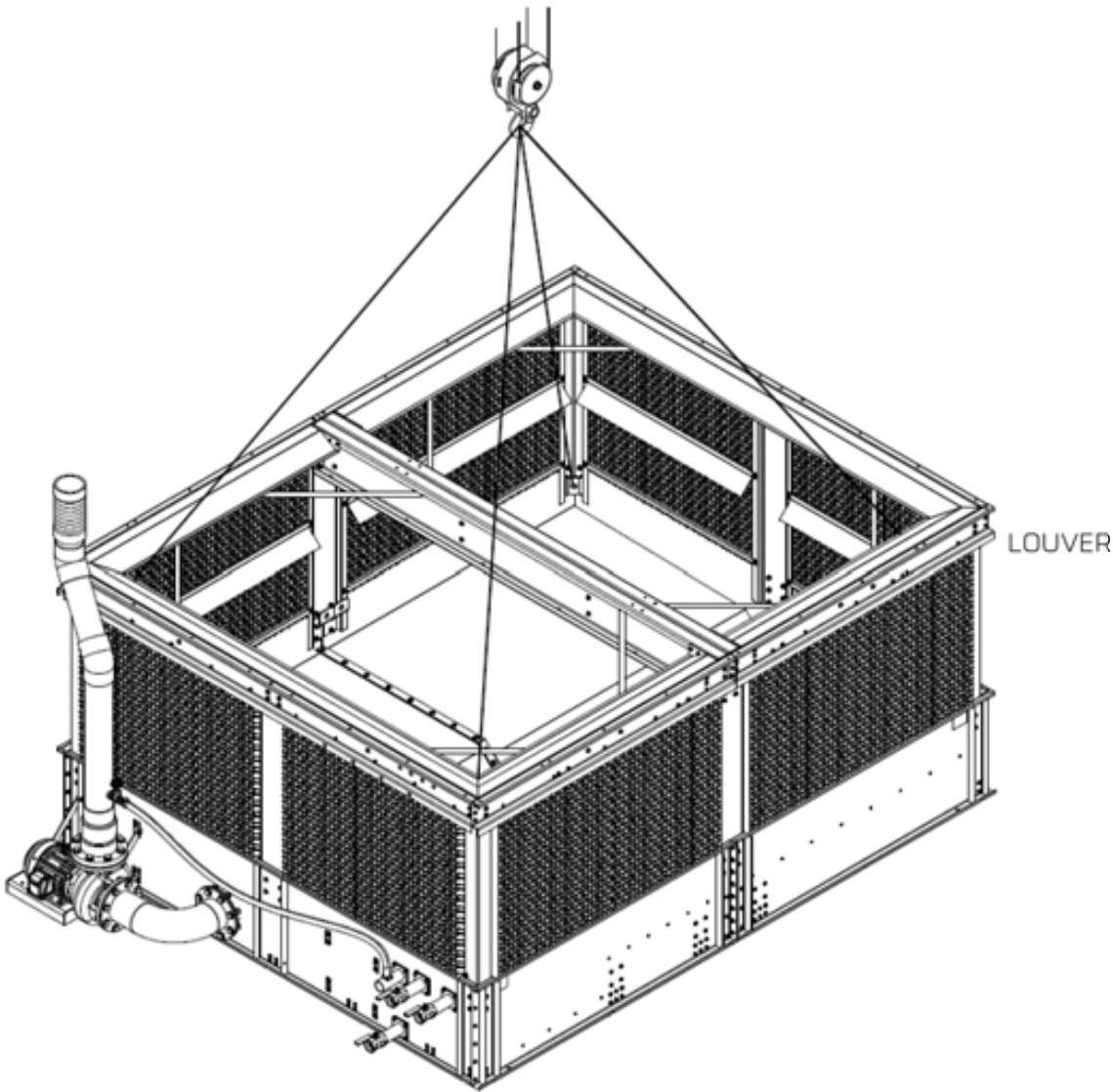


HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

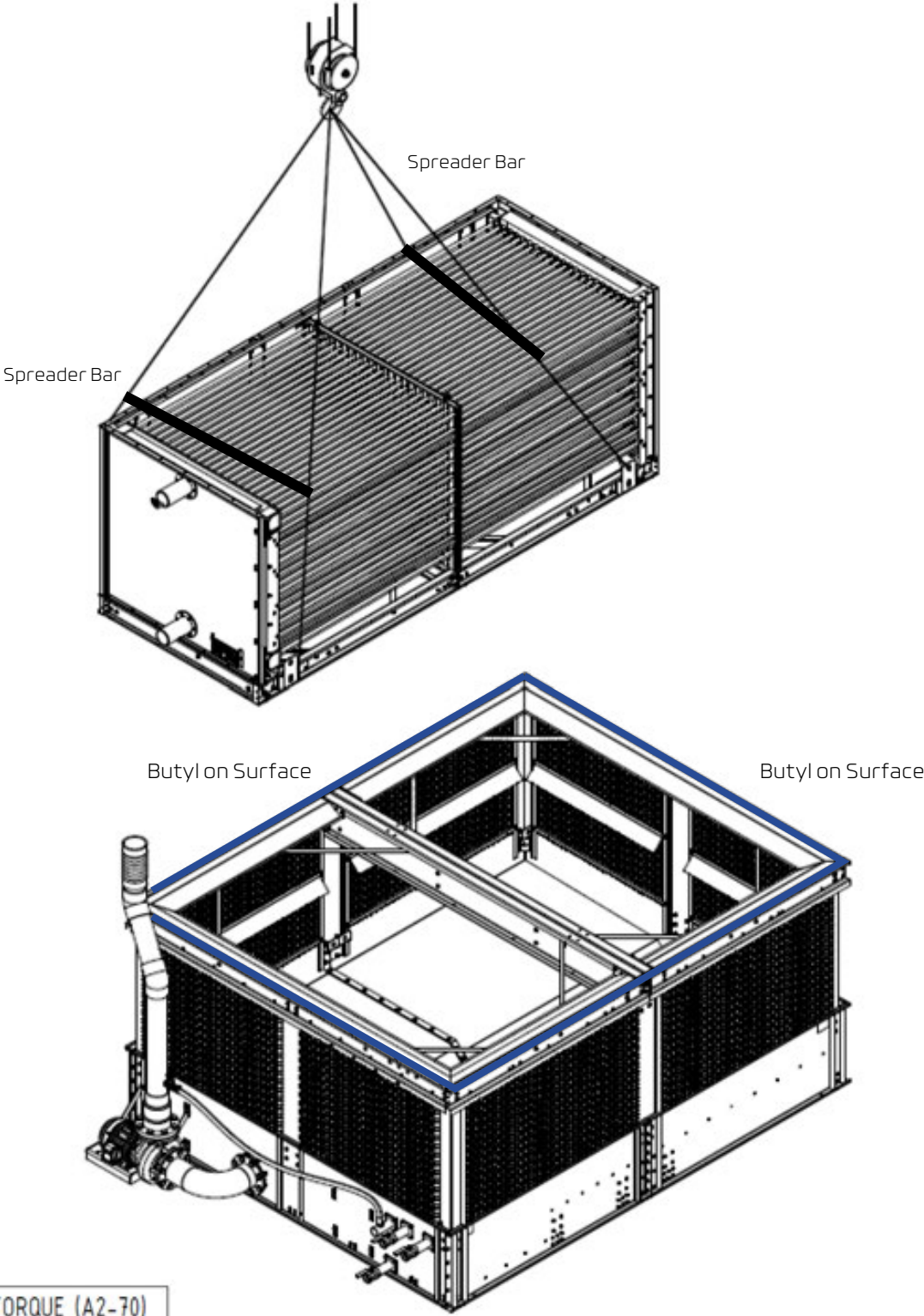
TIGHTENING TORQUE (A2-70)

M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

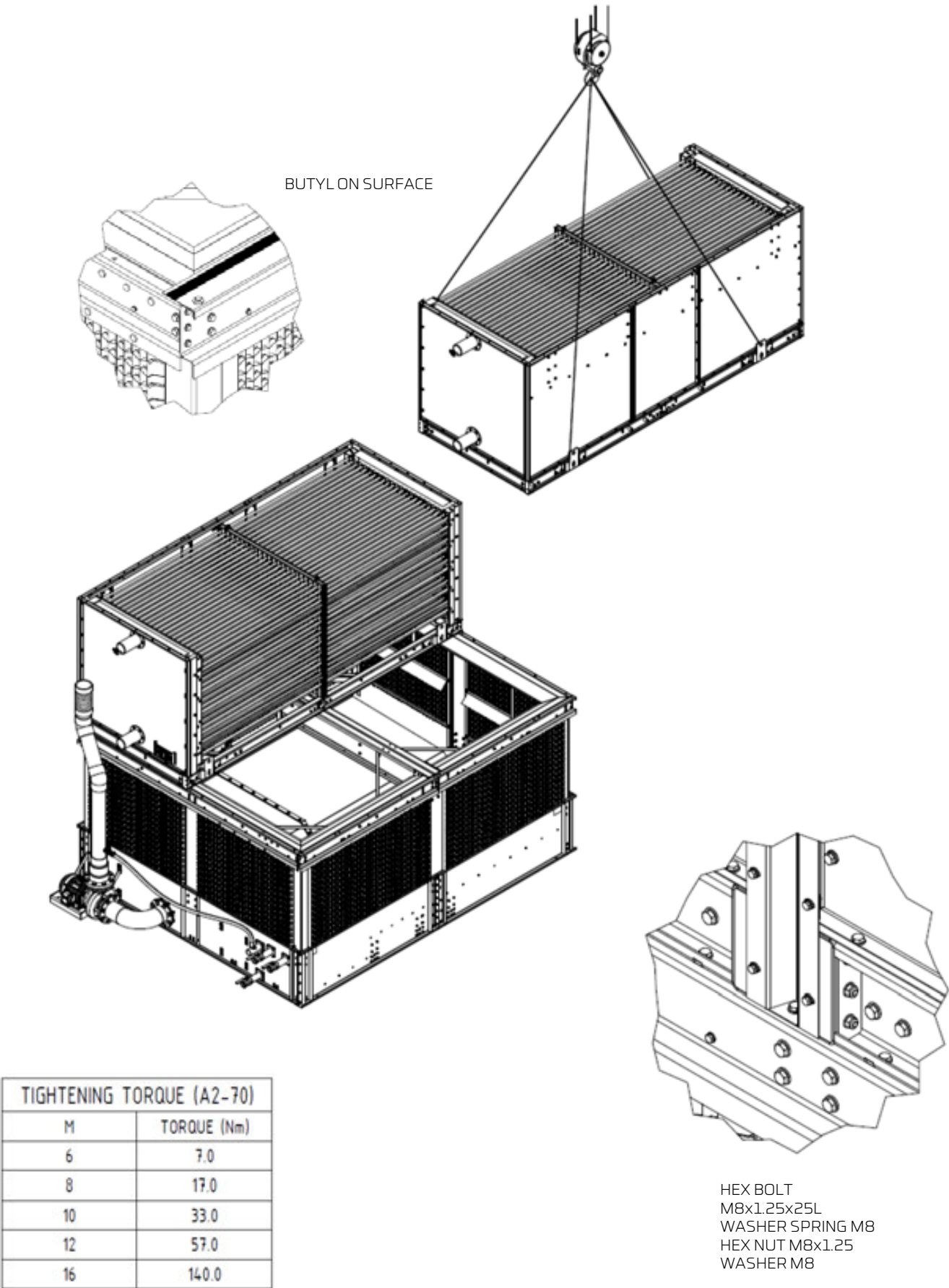
Step 9: Move Assembled Basin to Position

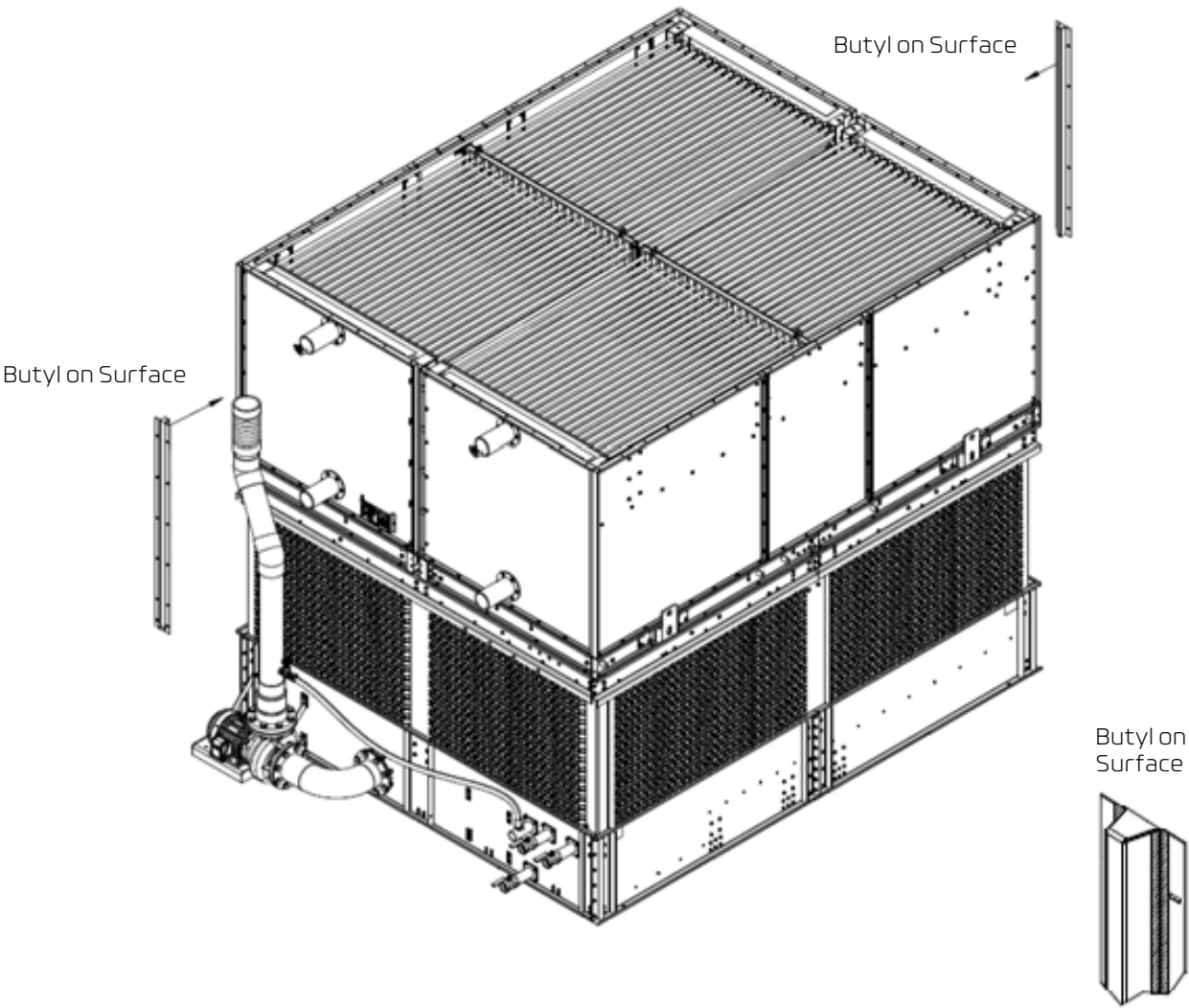


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

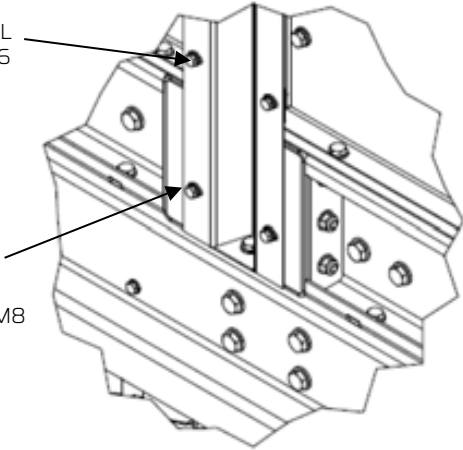


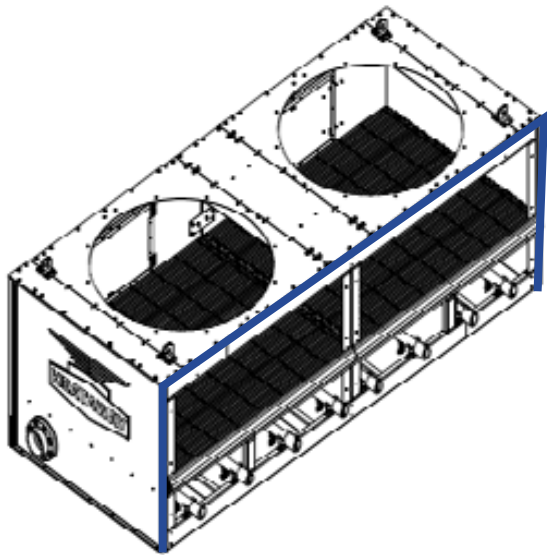
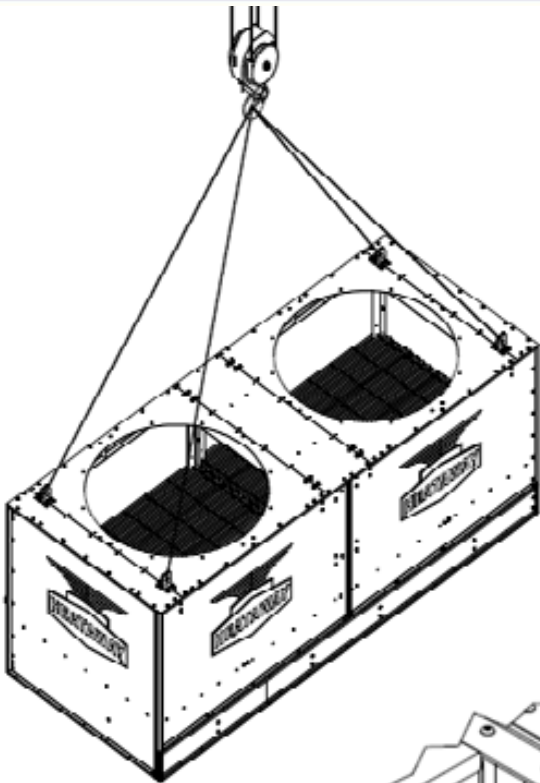


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

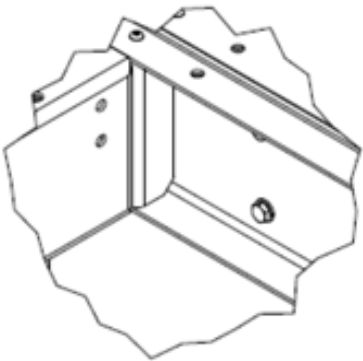
HEX BOLT M6x1x20L
WASHER SPRING M6
HEX NUT M6x1
WASHER M6

HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8





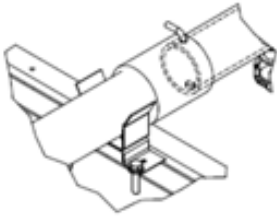
Butyl on
Surface



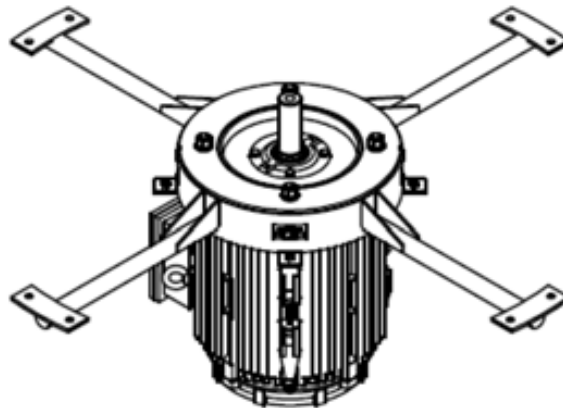
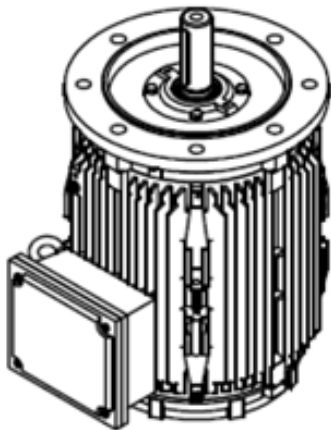
HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8



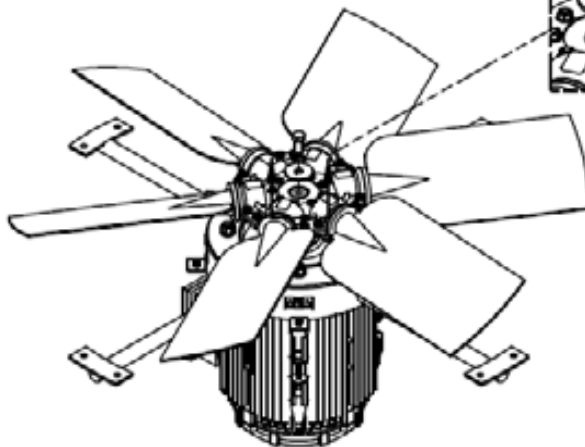
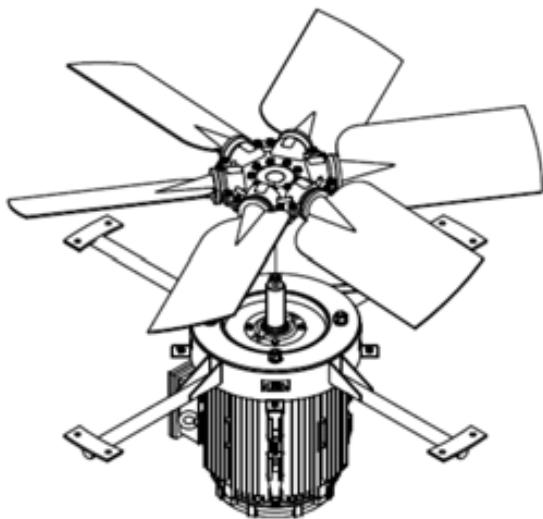
HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

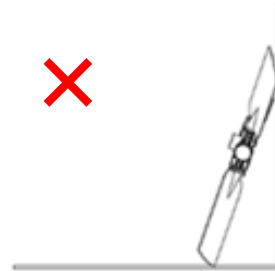
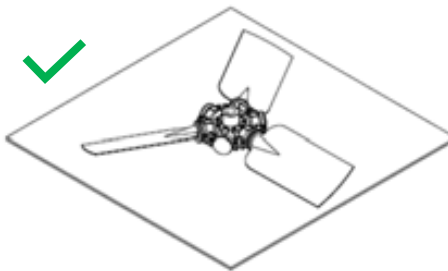


HEX NUT M16
 SPRING WASHER FOR
 M16
 WASHER FOR M16
 HEX BOLT
 M16x1.5x60L



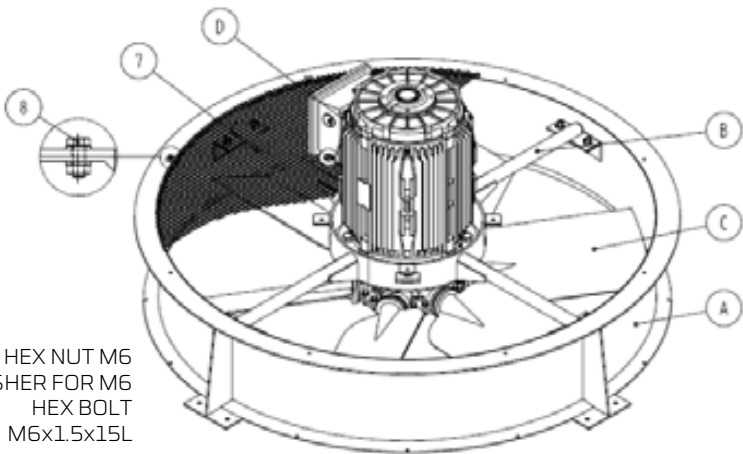
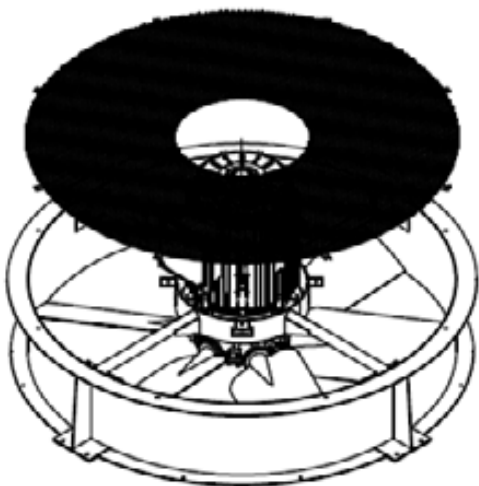
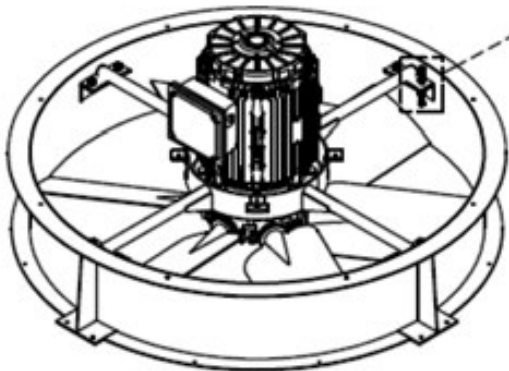
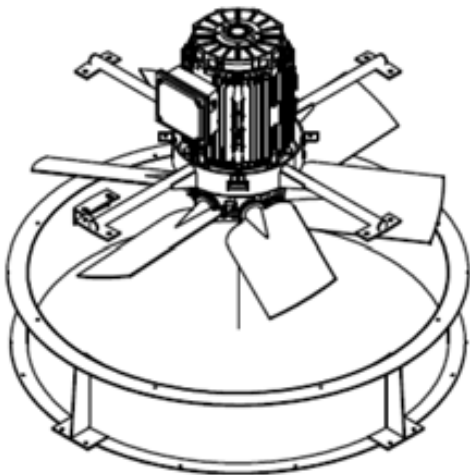
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

For prevents of FAN Blade warping or deformation please store by keep retaining plate side on the floor.



Fan Motor Assembly

HEX NUT M10
 SPRING WASHER FOR M10
 WASHER FOR M10
 HEX BOLT M10x1.5x30L

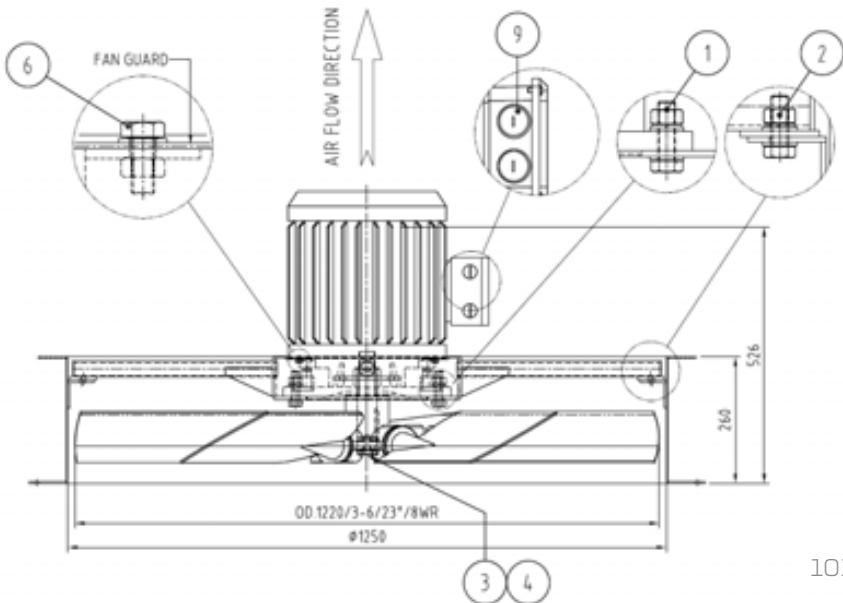


HEX NUT M6
 WASHER FOR M6
 HEX BOLT
 M6x1.5x15L

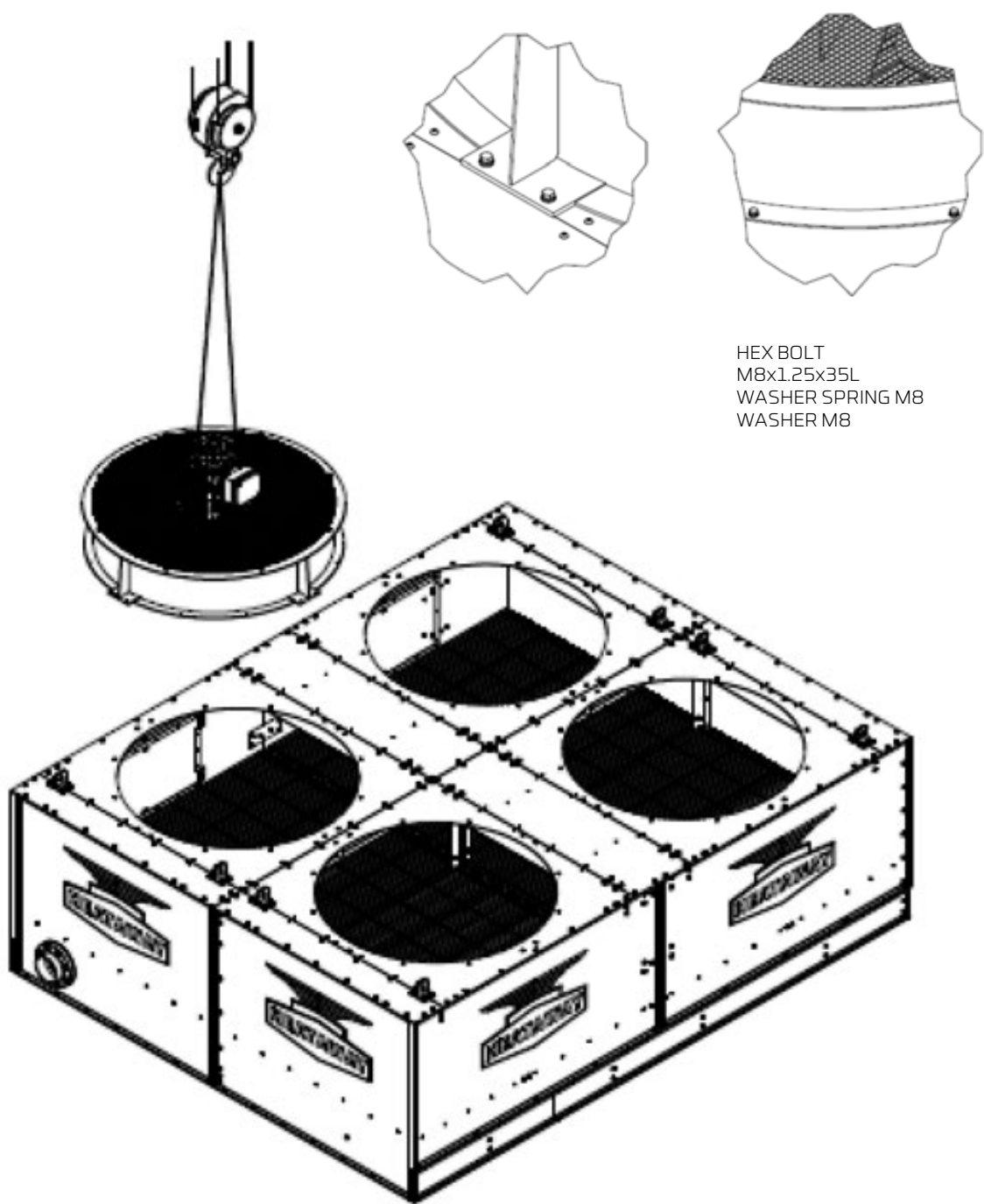
HEX NUT M16
 SPRING WASHER FOR
 M16
 WASHER FOR M16
 HEX BOLT
 M16x1.5x60L

HEX NUT M10
 SPRING WASHER FOR
 M10
 WASHER FOR M10
 HEX BOLT
 M10x1.5x30L

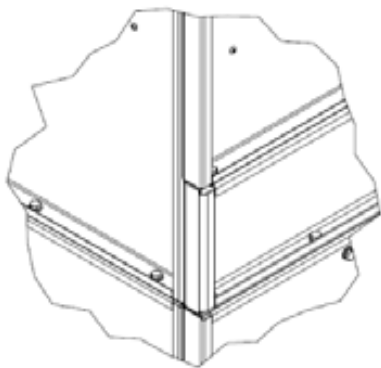
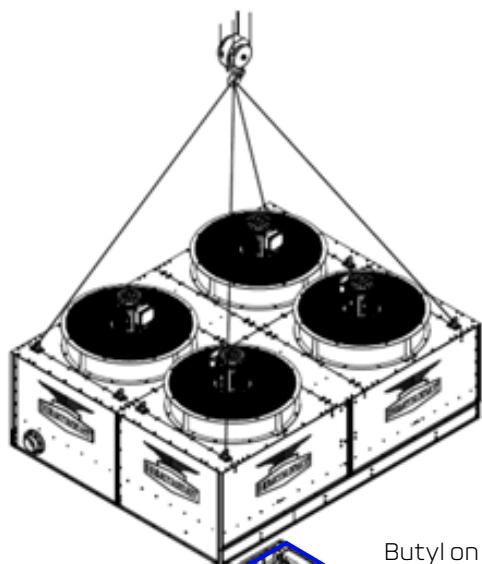
HEX NUT M8
 WASHER FOR M8
 HEX BOLT
 M8x1.5x15L



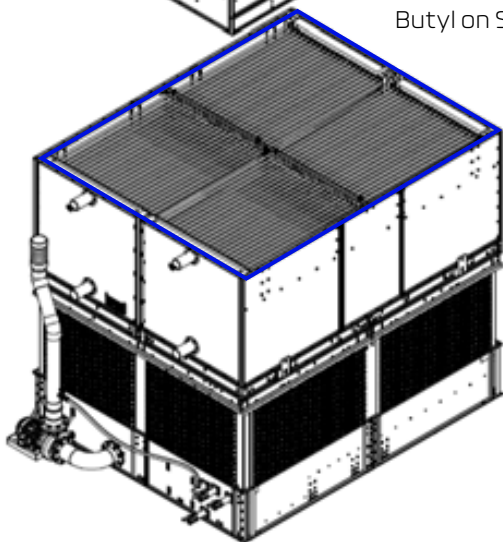
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



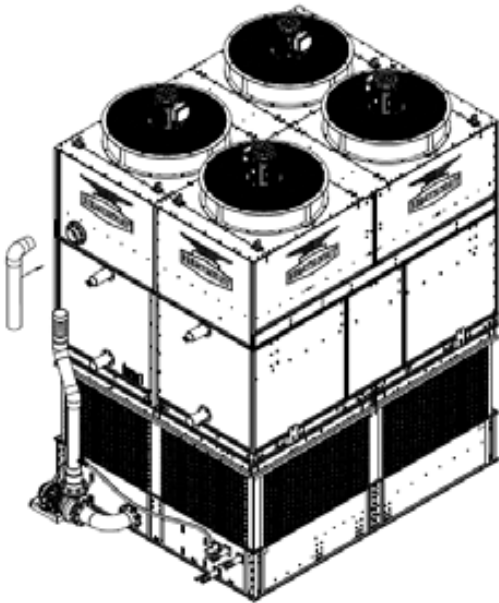
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



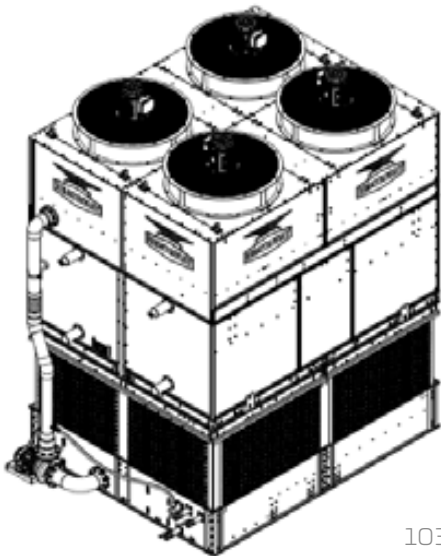
HEX BOLT
M8x1.25x20L
WASHER SPRING M8
WASHER M8
HEX NUT M8 1.25



Butyl on Surface



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0





BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

Footprint

12' X 18'

Model

EC9-2600-1218C-S

EC9-2950-1218C-S

EC9-3010-1218C-M

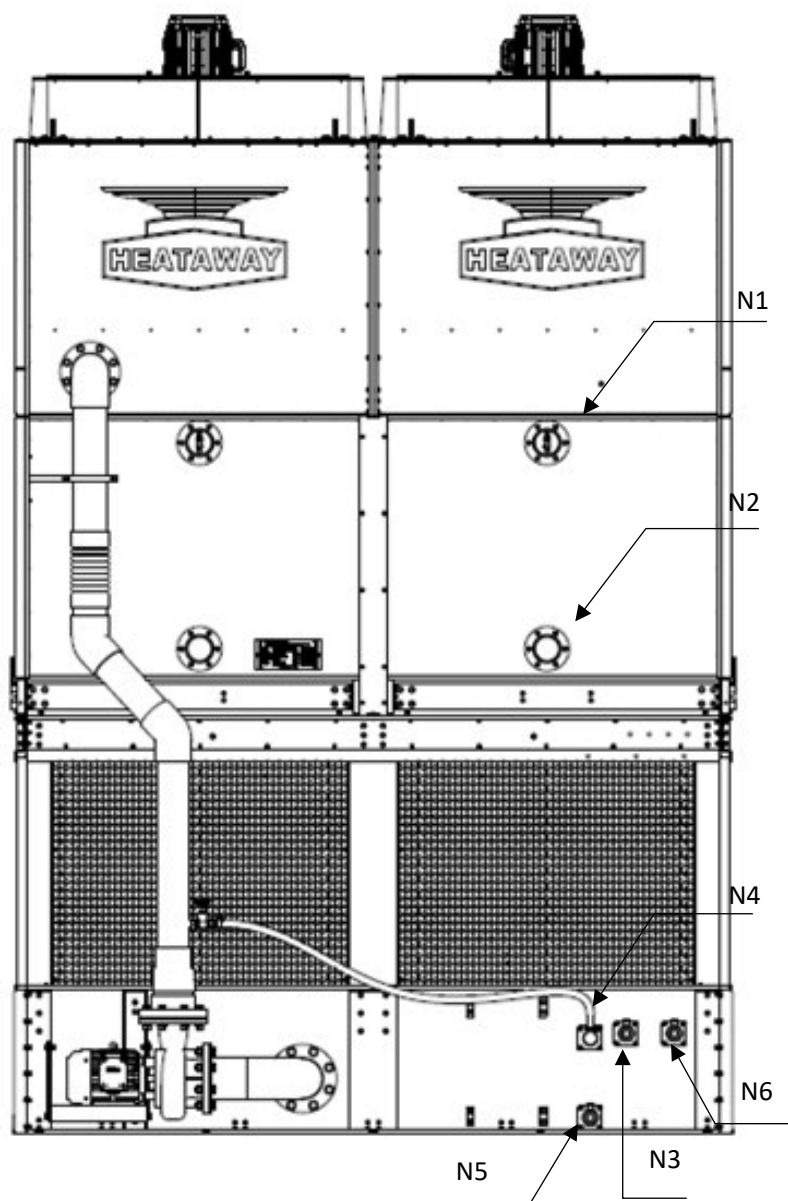
EC9-3400-1218C-M

EC9-3730-1218C-M

EC9-3900-1218C-L



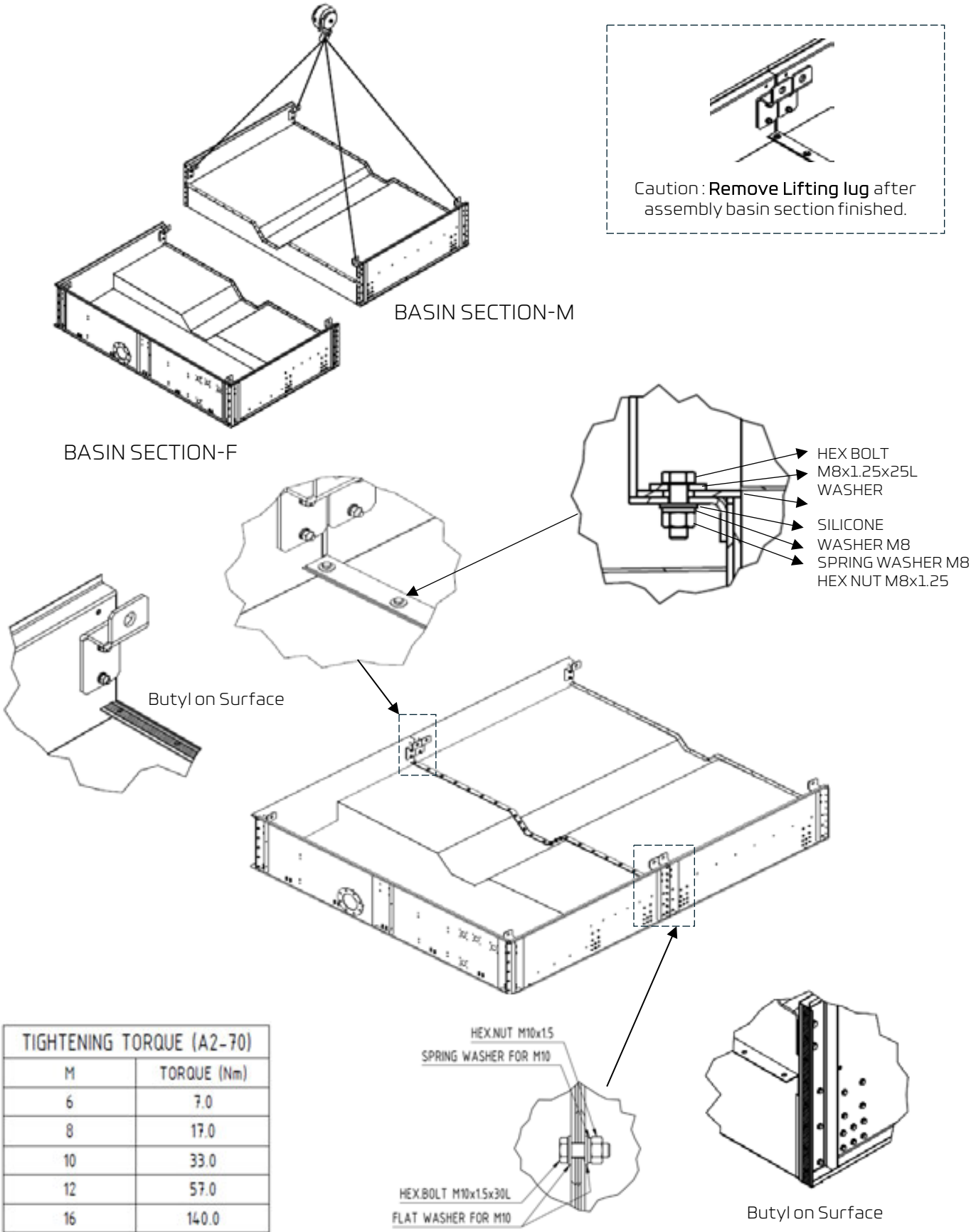
www.heataway.net



PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

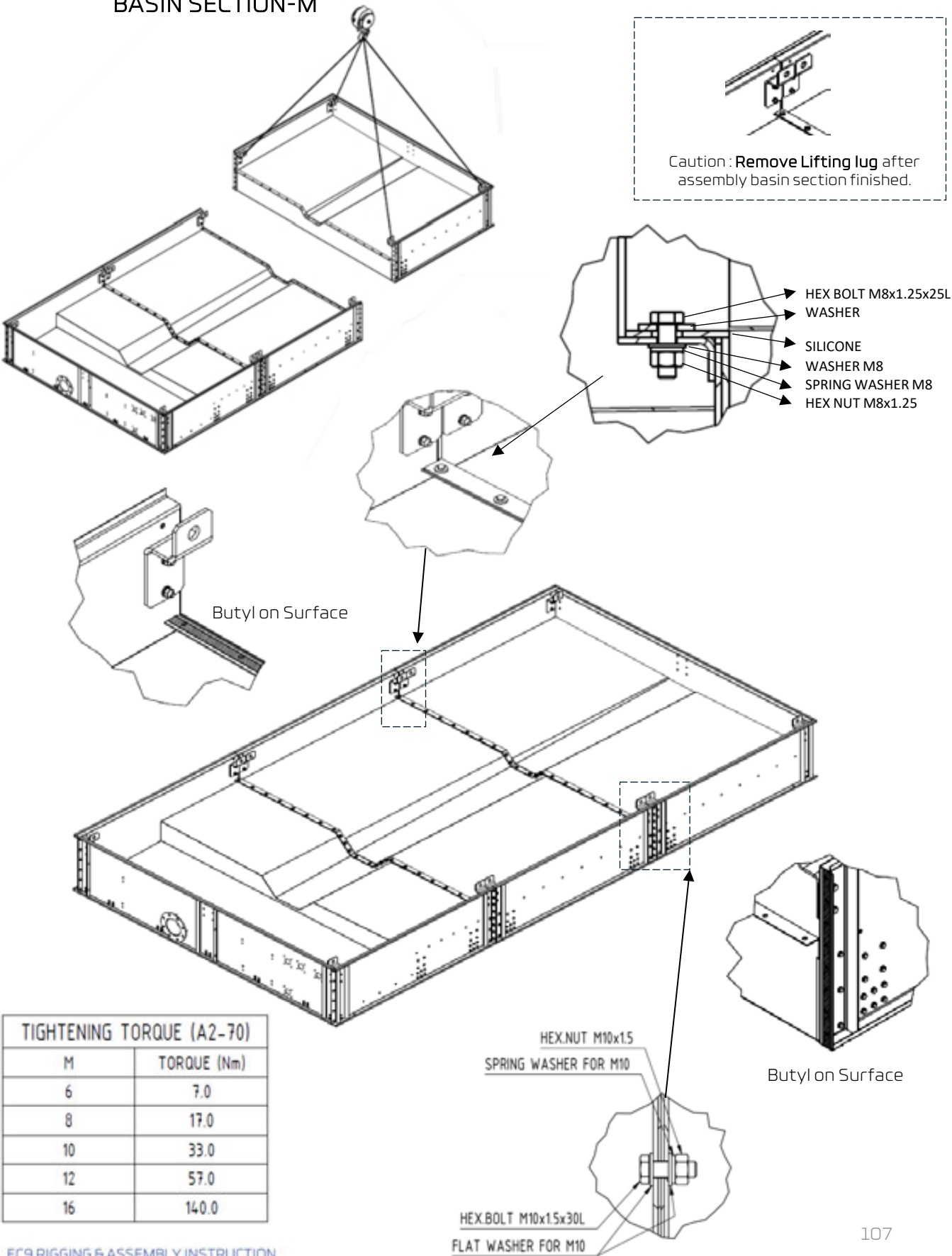
Basin Section Assembly

► **Step 1:** Start Assembly from item " BASIN SECTION-F " And " BASIN SECTION-M "

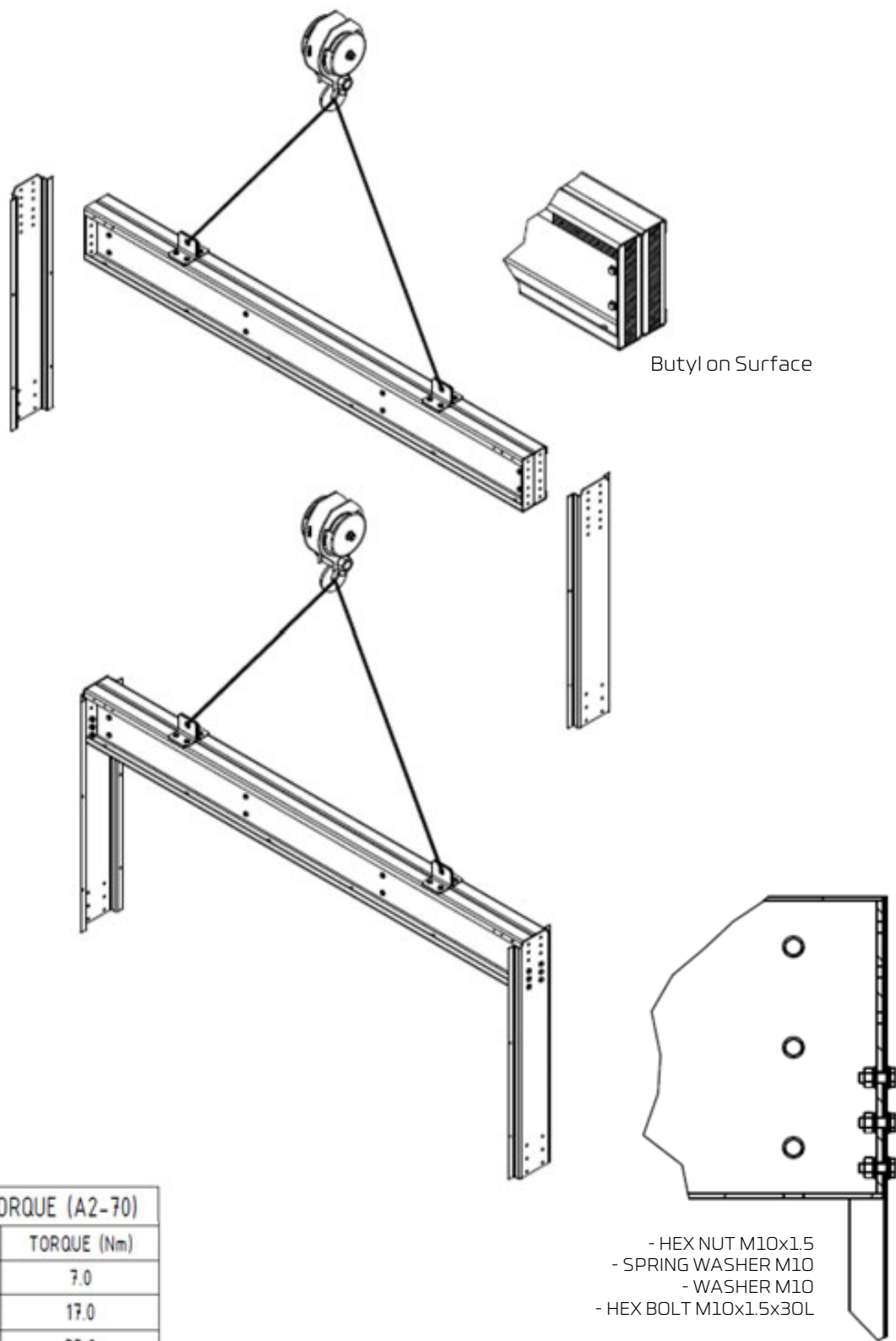


Basin Section Assembly

► Step 2 : Assembly " BASIN SECTION-B " with " BASIN SECTION-F " And " BASIN SECTION-M "



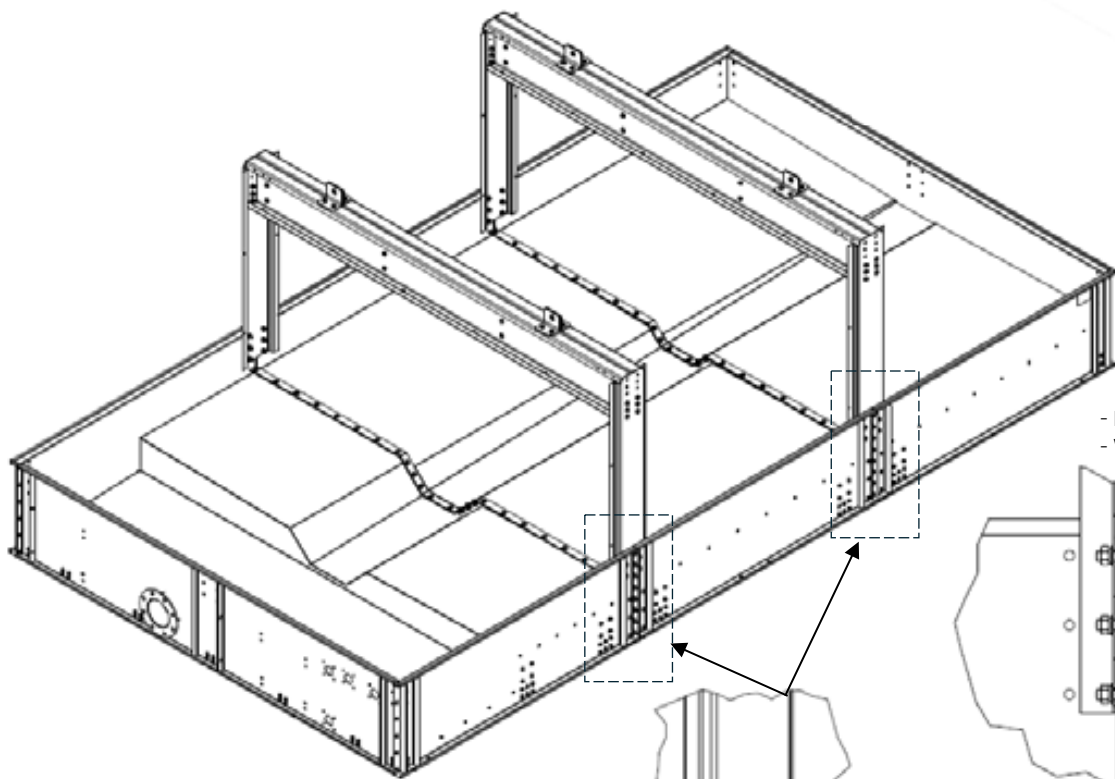
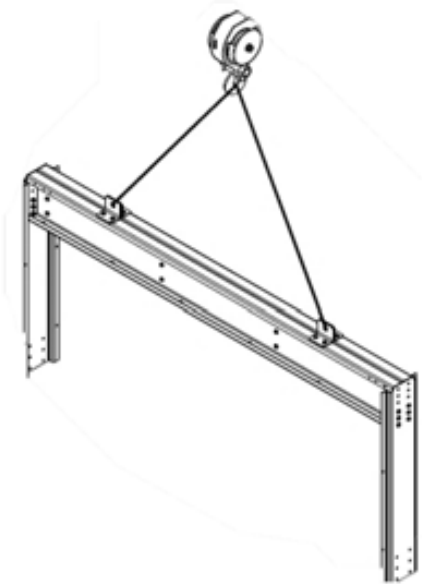
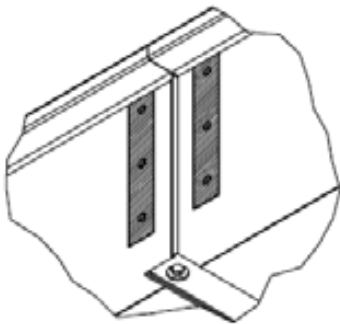
► Step 3 : Assembly Frame Support



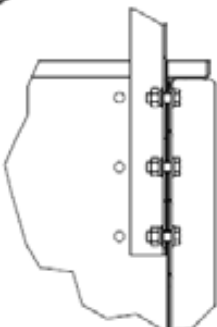
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

➤ Step 4 : Assembly Frame Support with BASIN Set Assembly

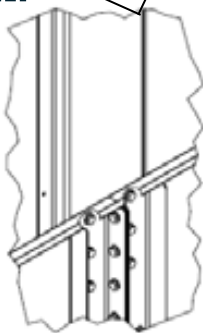
Butyl on Surface



- HEX BOLT M10x1.5x30L
- WASHER M10

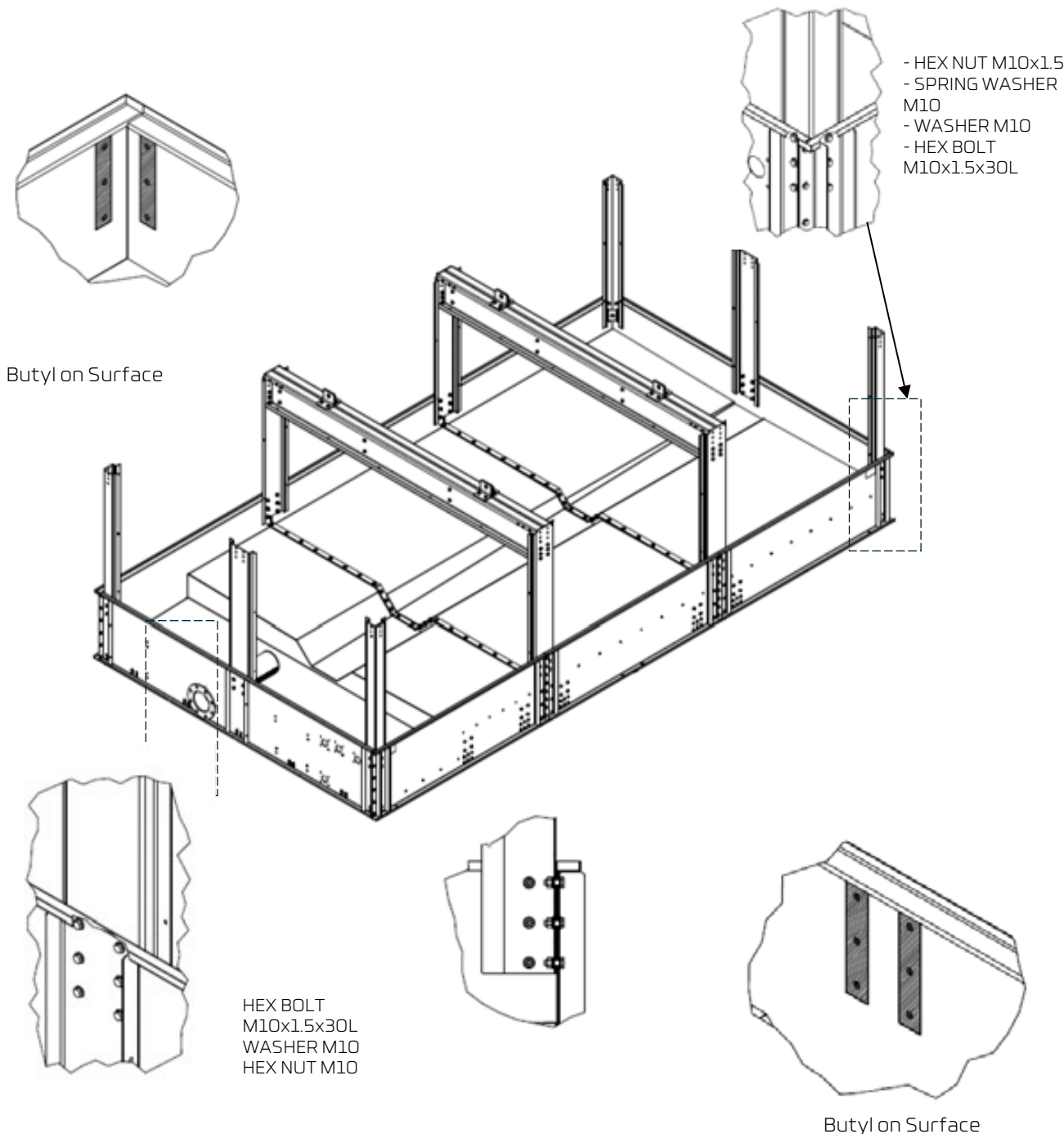


- SPRING WASHER M10
- HEX NUT M10x1.5



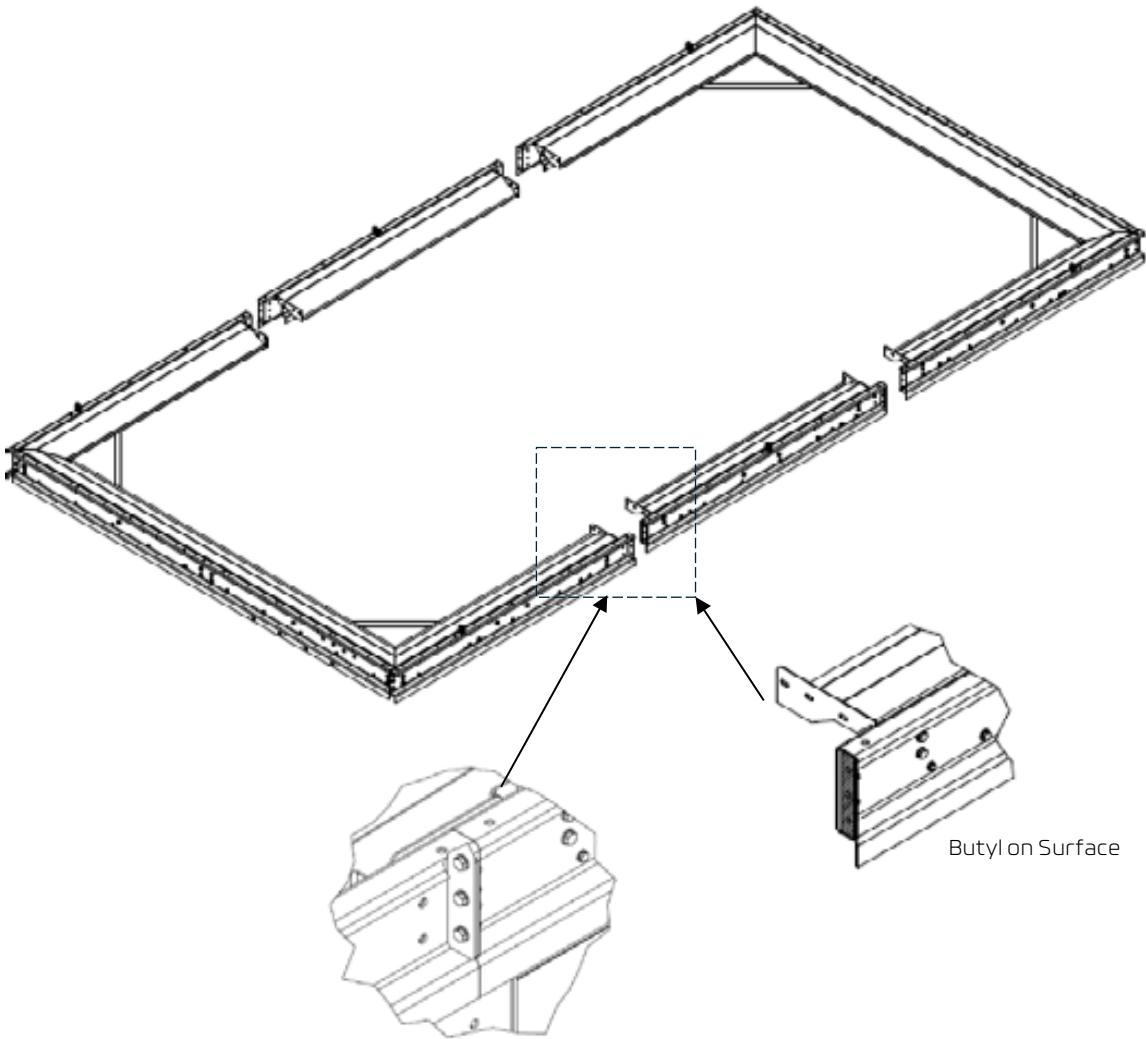
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

► Step 5 : Assembly Frame Support with BASIN Set Assembly

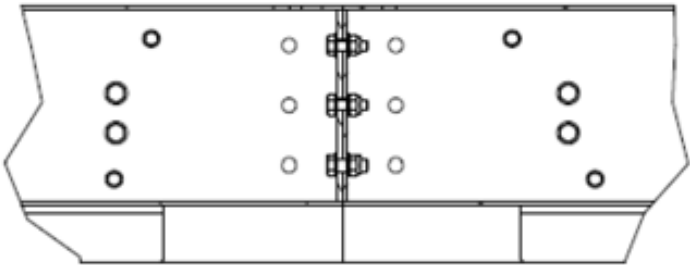


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

➤ Step 6 : Assembly Top Frame of BASIN SECTION

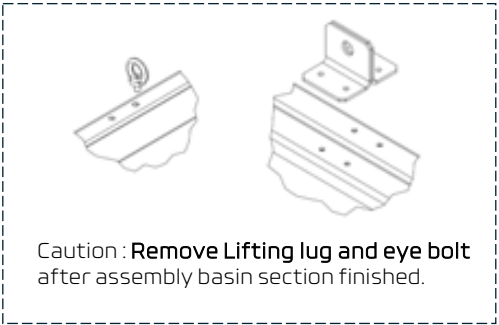
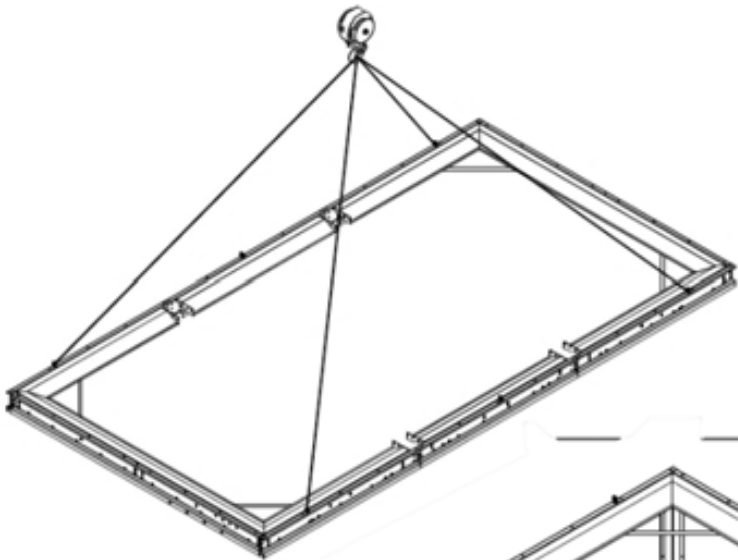


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

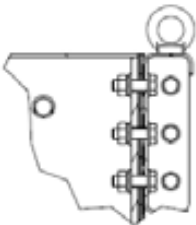
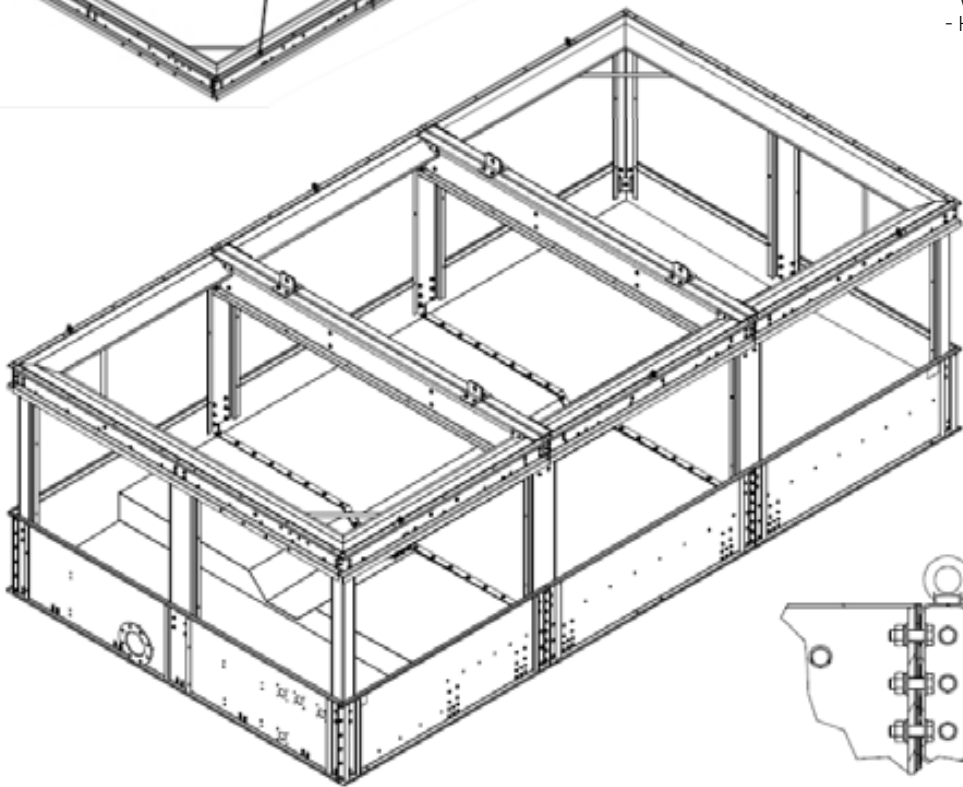


HEX BOLT
M8x1.25x25L
WASHER M8
HEX.LOCK NUT
M8x1.25

➤ **Step 7 : Install Top Frame to BASIN SECTION and assembly MID FRAME**



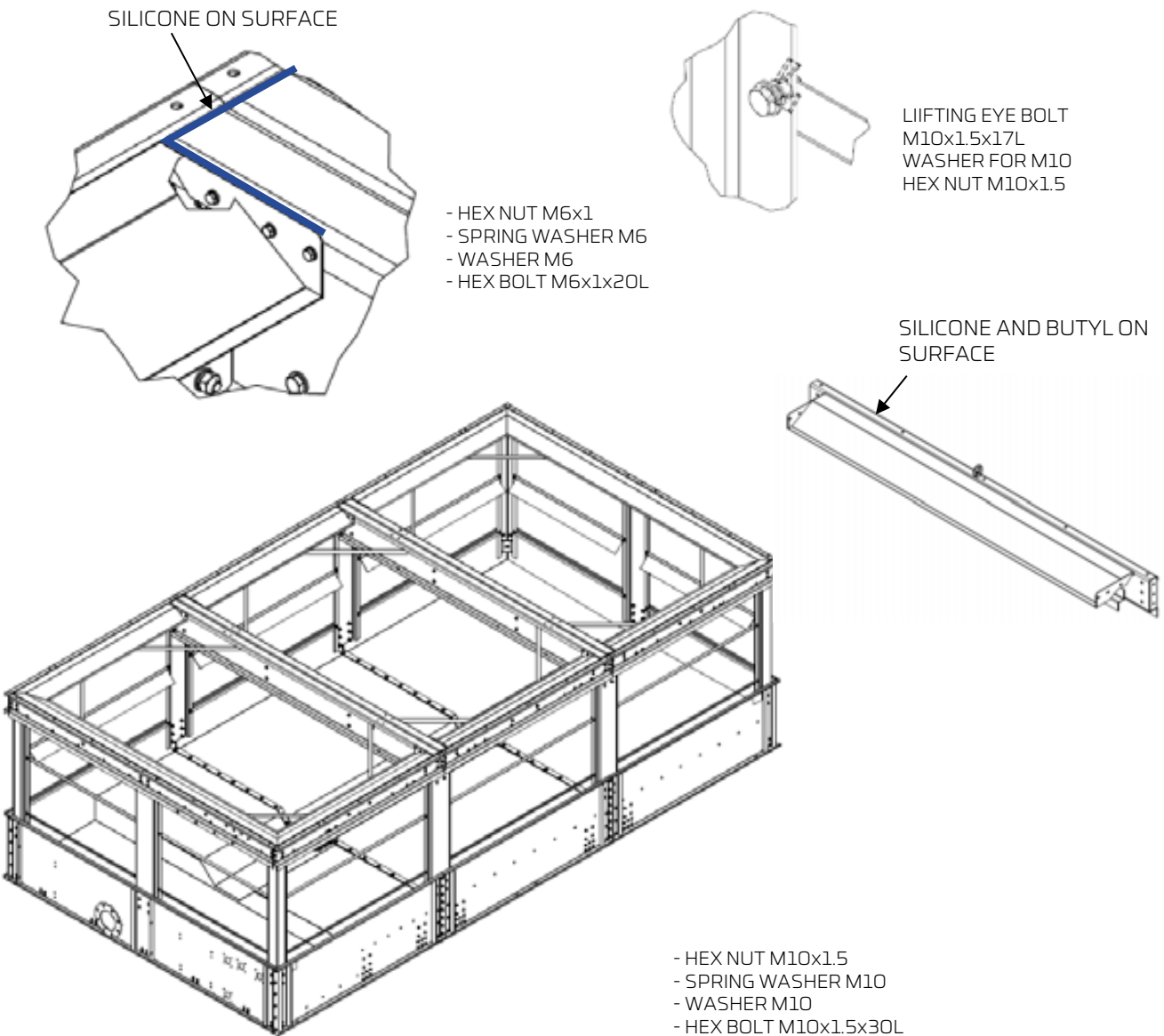
- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x35L



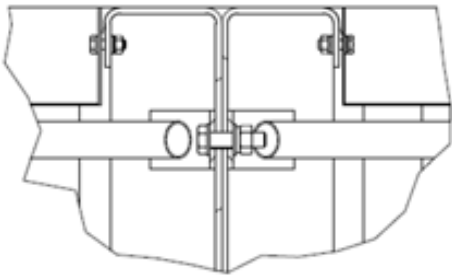
- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x35L

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

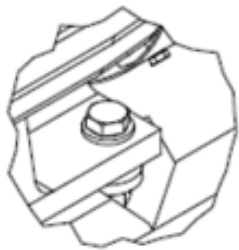
➤ Step 8 : Assembly support frame and Deflector



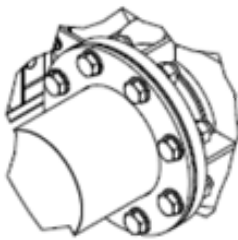
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



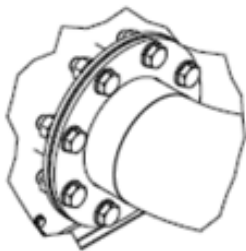
➤ Step 9 : Install water pipe and Ball Float Valve to BASIN SECTION



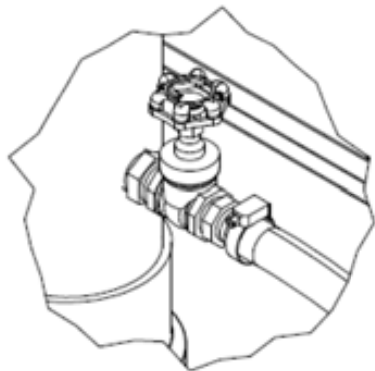
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x50L



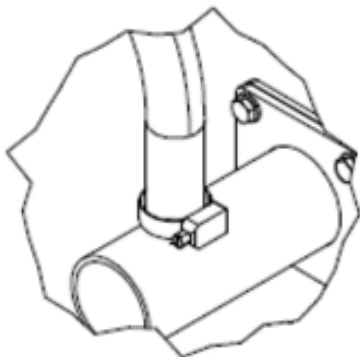
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L



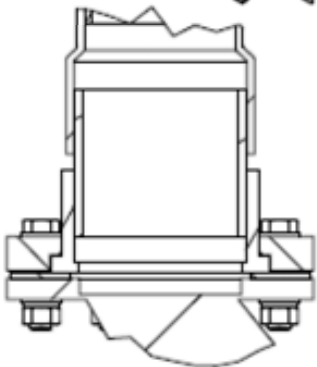
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"
TEXTILE HOSE 1"



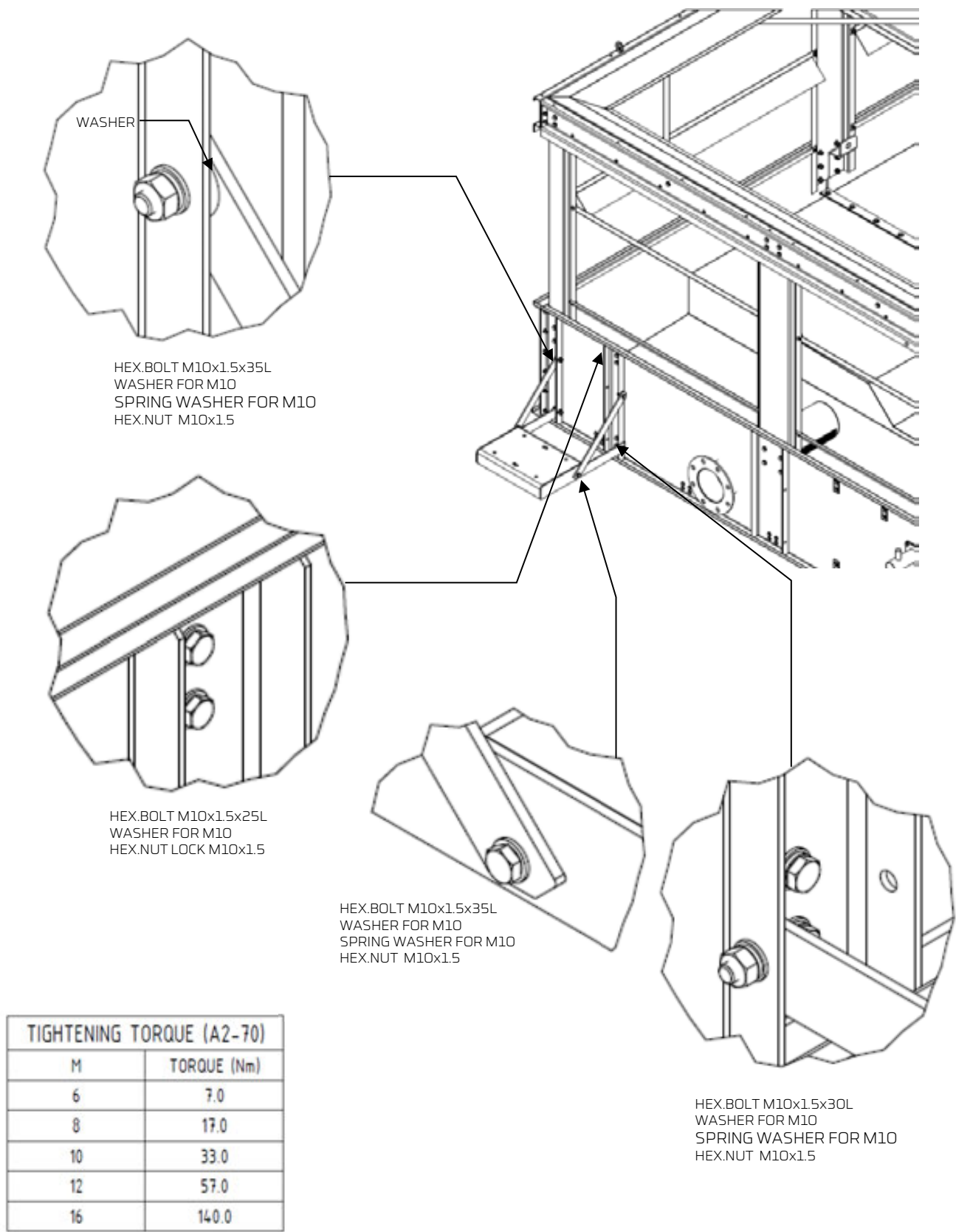
HOSE CLAMP 1"
TEXTILE HOSE 1"



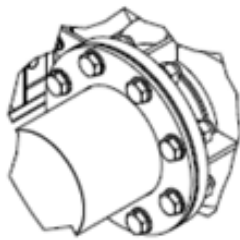
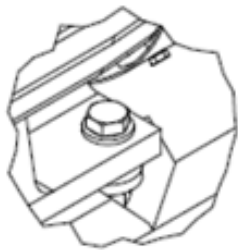
HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

► Step 10 : Pump set assembly and install to BASIN SECTION

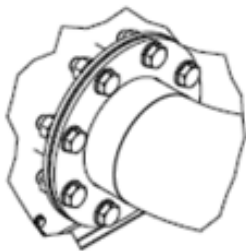


➤ Step 10 : Pump set assembly and install to BASIN SECTION

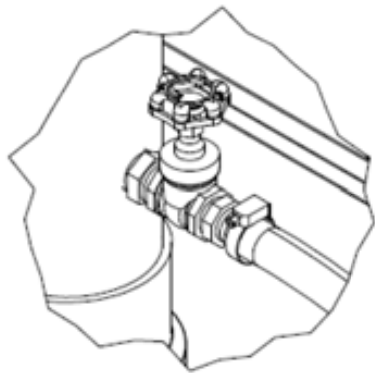


HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x70L

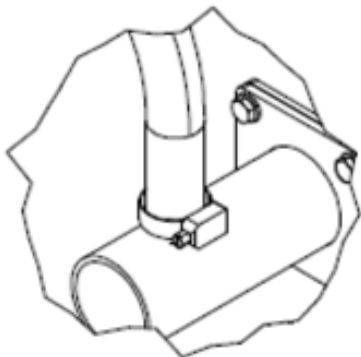
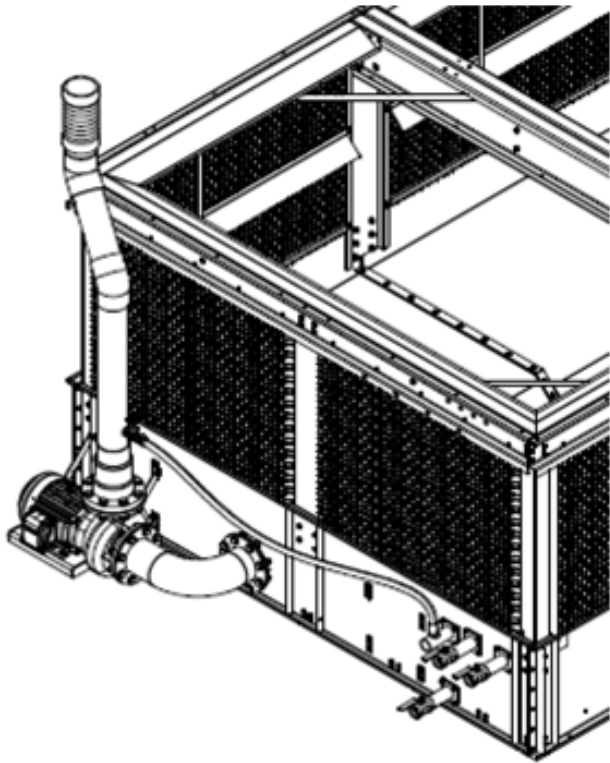
HEX NUT M12x1.75
SPRING WASHER FOR M12
WASHER FOR M12
HEX BOLT M12x1.75x45L



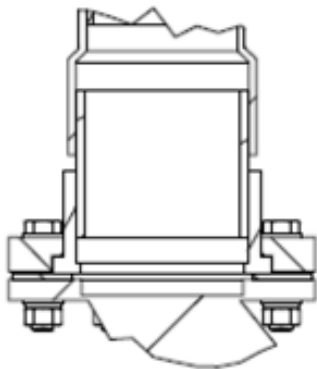
HEX NUT M20x2.5
SPRING WASHER FOR M20
WASHER FOR M20
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"
TEXTILE HOSE 1"



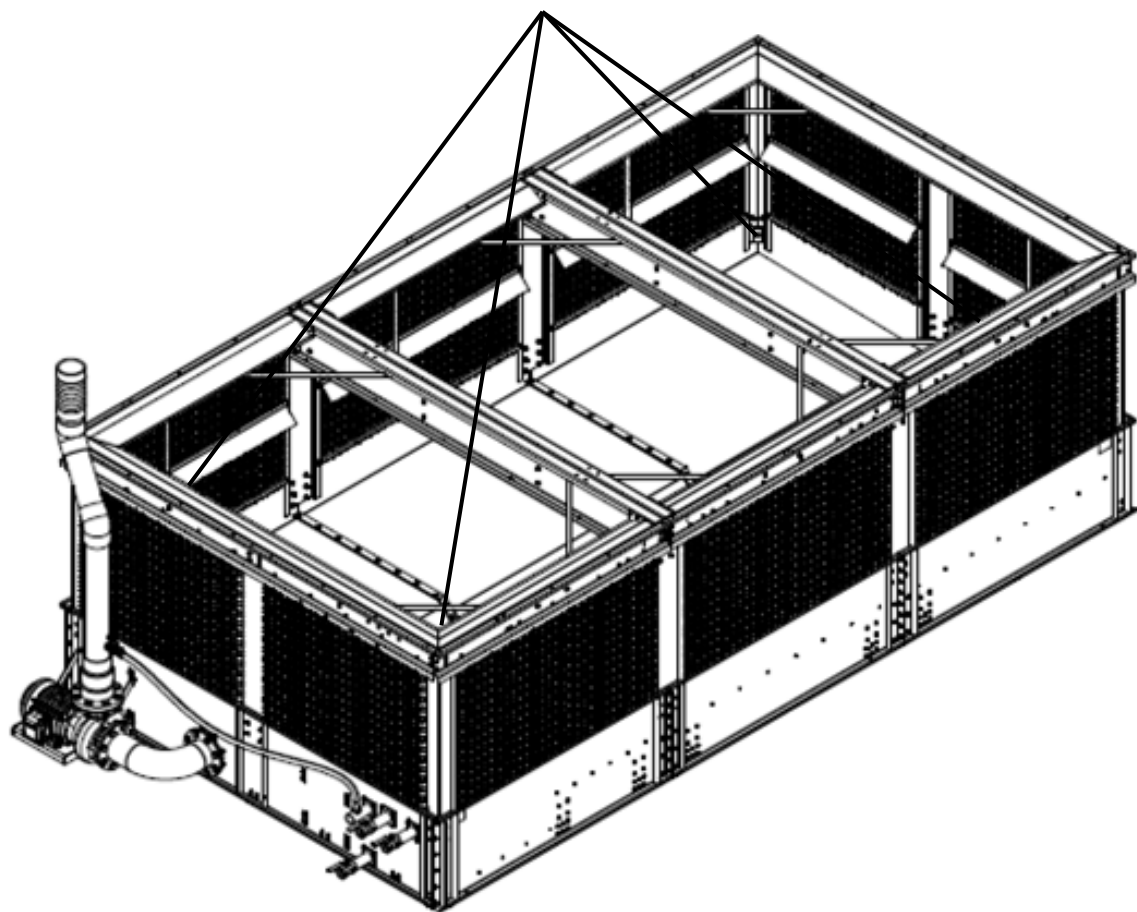
HOSE CLAMP 1"
TEXTILE HOSE 1"



HEX BOLT M20 x90L
HEX LOCK NUT M20
WASHER FOR M20
SPRING WASHER FOR M20

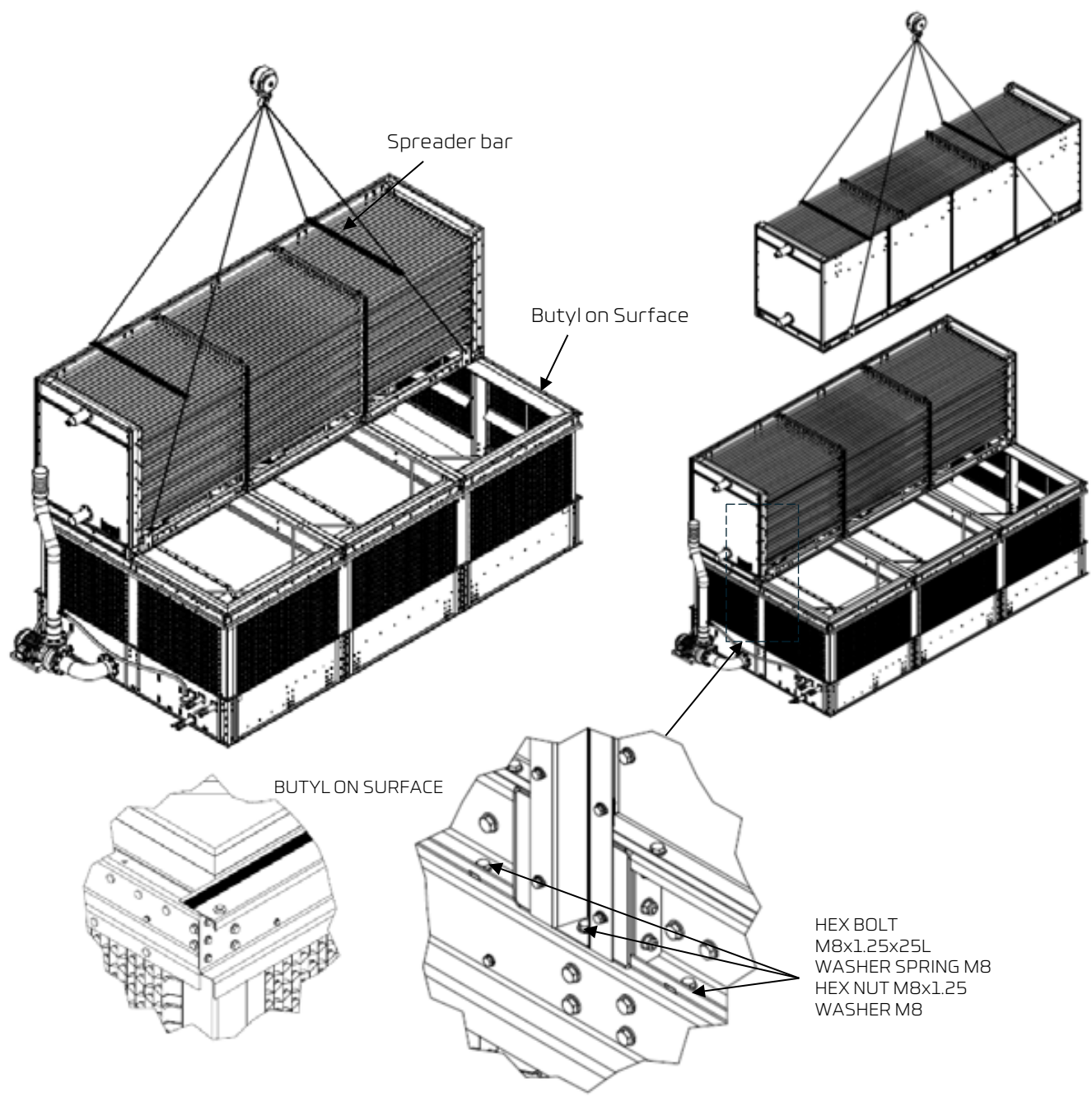
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

Move BASIN SECTION to position

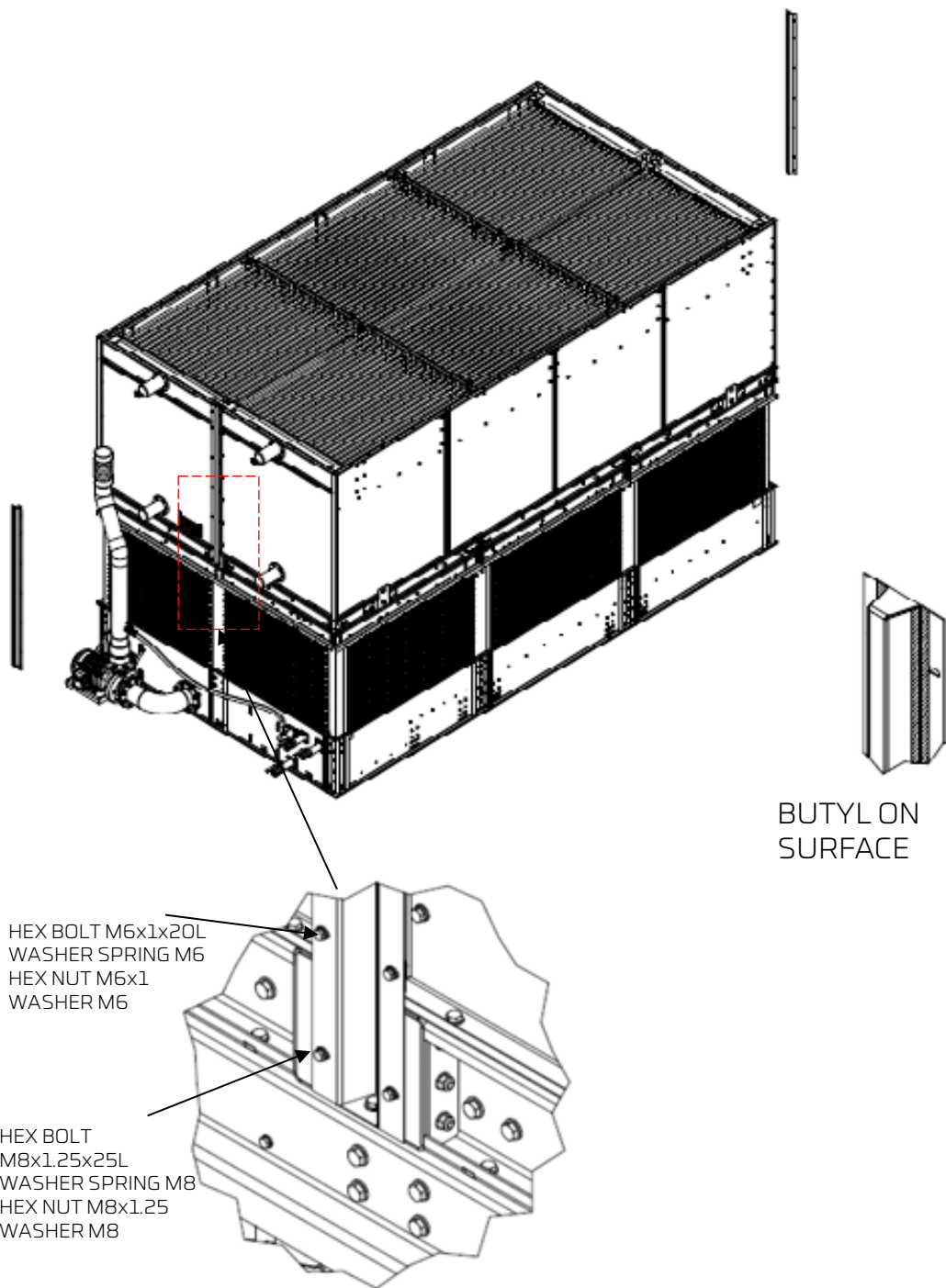


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Assembly Coil Section L and R on Basin

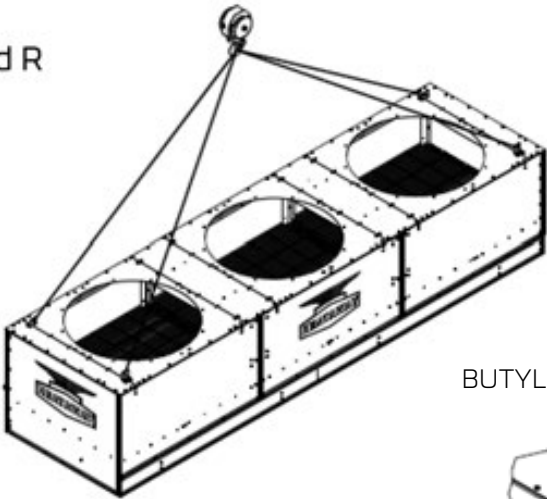


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

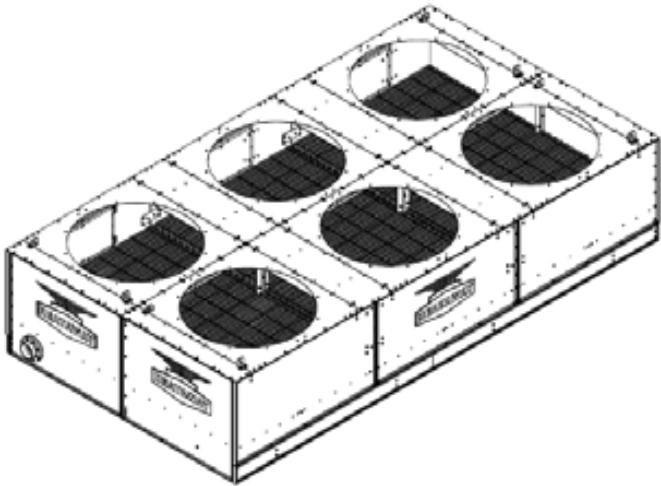
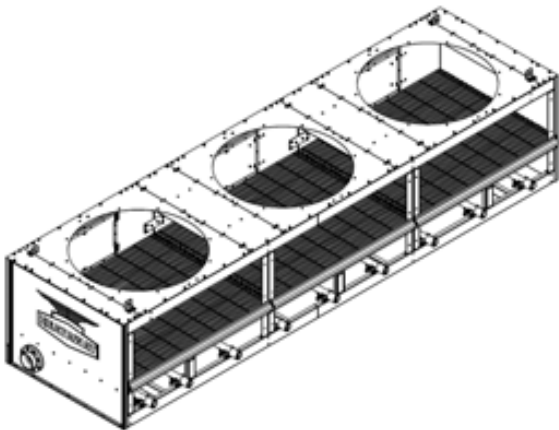


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

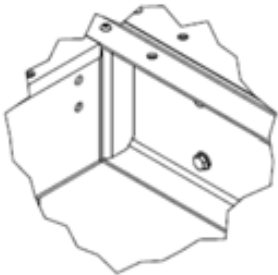
>> Assembly FAN Section L and R



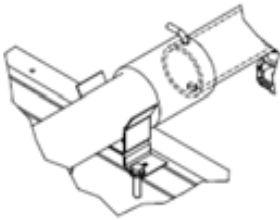
BUTYL ON SURFACE



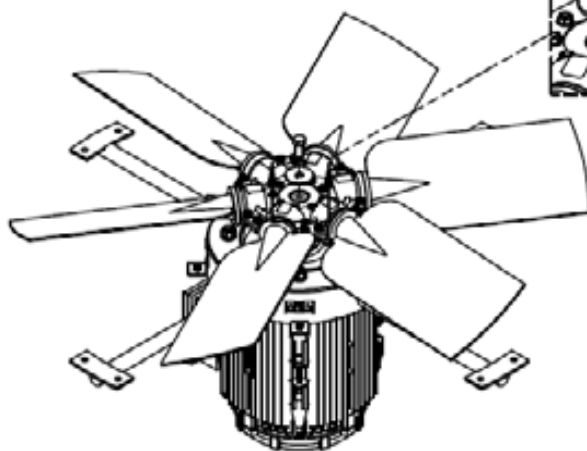
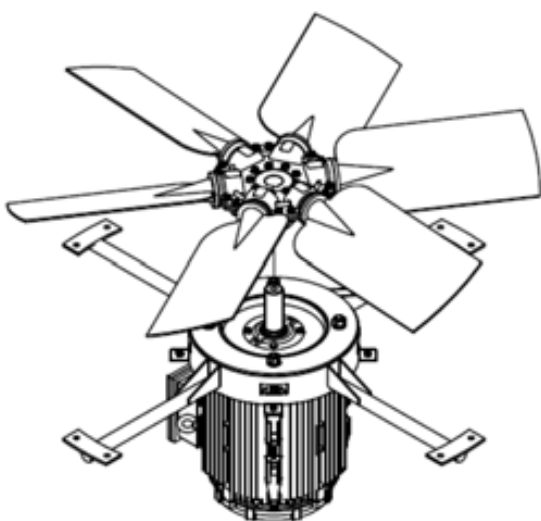
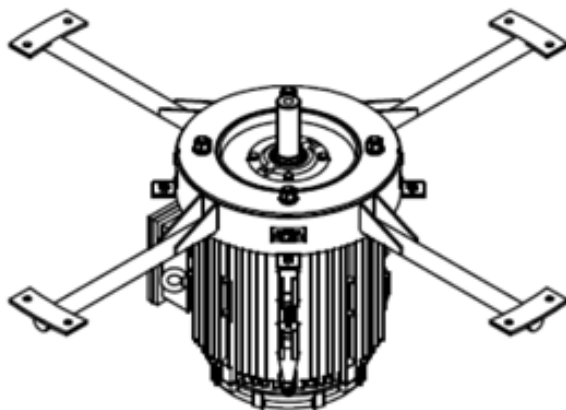
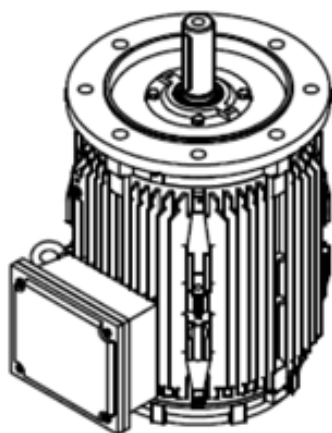
HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8



HEX BOLT
M8x1.25x25L
WASHER SPRING M8
HEX NUT M8x1.25
WASHER M8



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

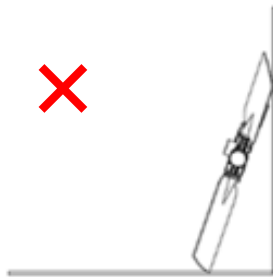
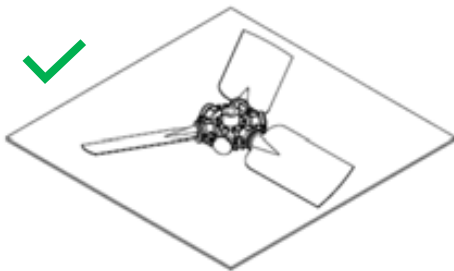


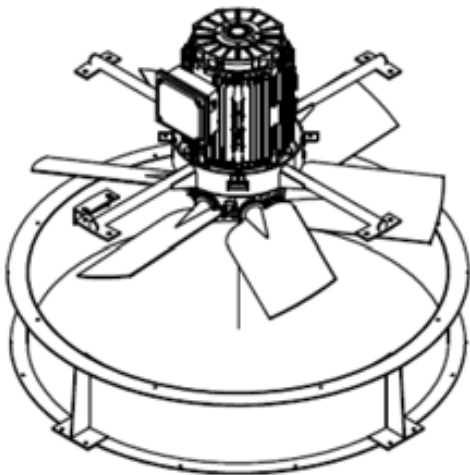
HEX NUT M16
 SPRING WASHER FOR
 M16
 WASHER FOR M16
 HEX BOLT M16x1.5x60L



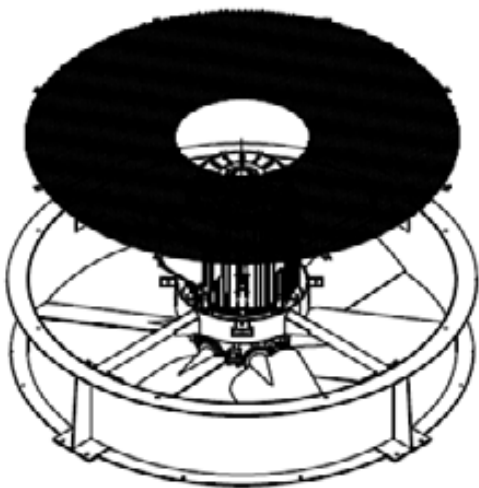
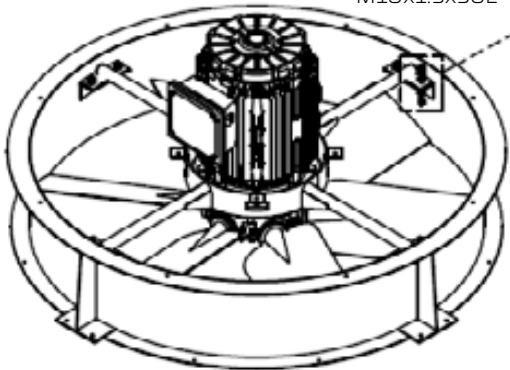
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

For prevents of FAN Blade warping or deformation please store by keep retaining plate side on the floor.

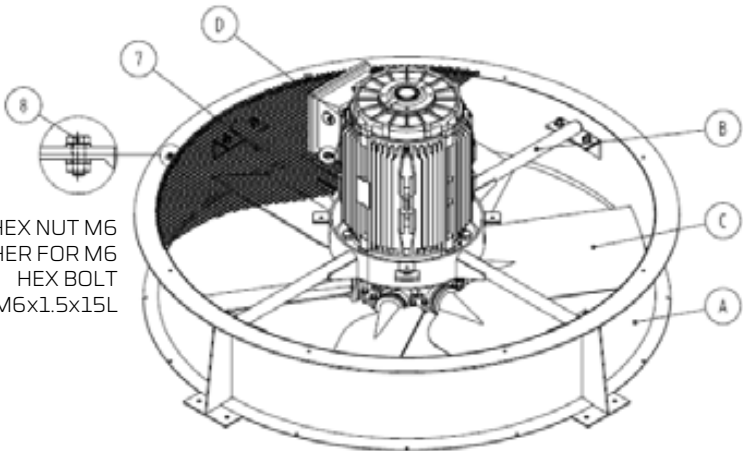




HEX NUT M10
SPRING WASHER FOR
M10
WASHER FOR M10
HEX BOLT
M10x1.5x30L



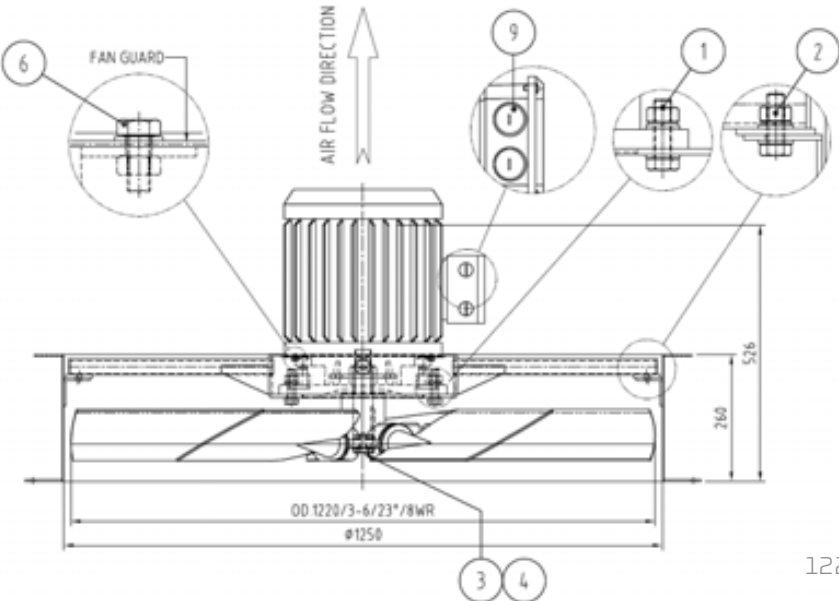
HEX NUT M6
WASHER FOR M6
HEX BOLT
M6x1.5x15L



HEX NUT M16
SPRING WASHER FOR
M16
WASHER FOR M16
HEX BOLT
M16x1.5x60L

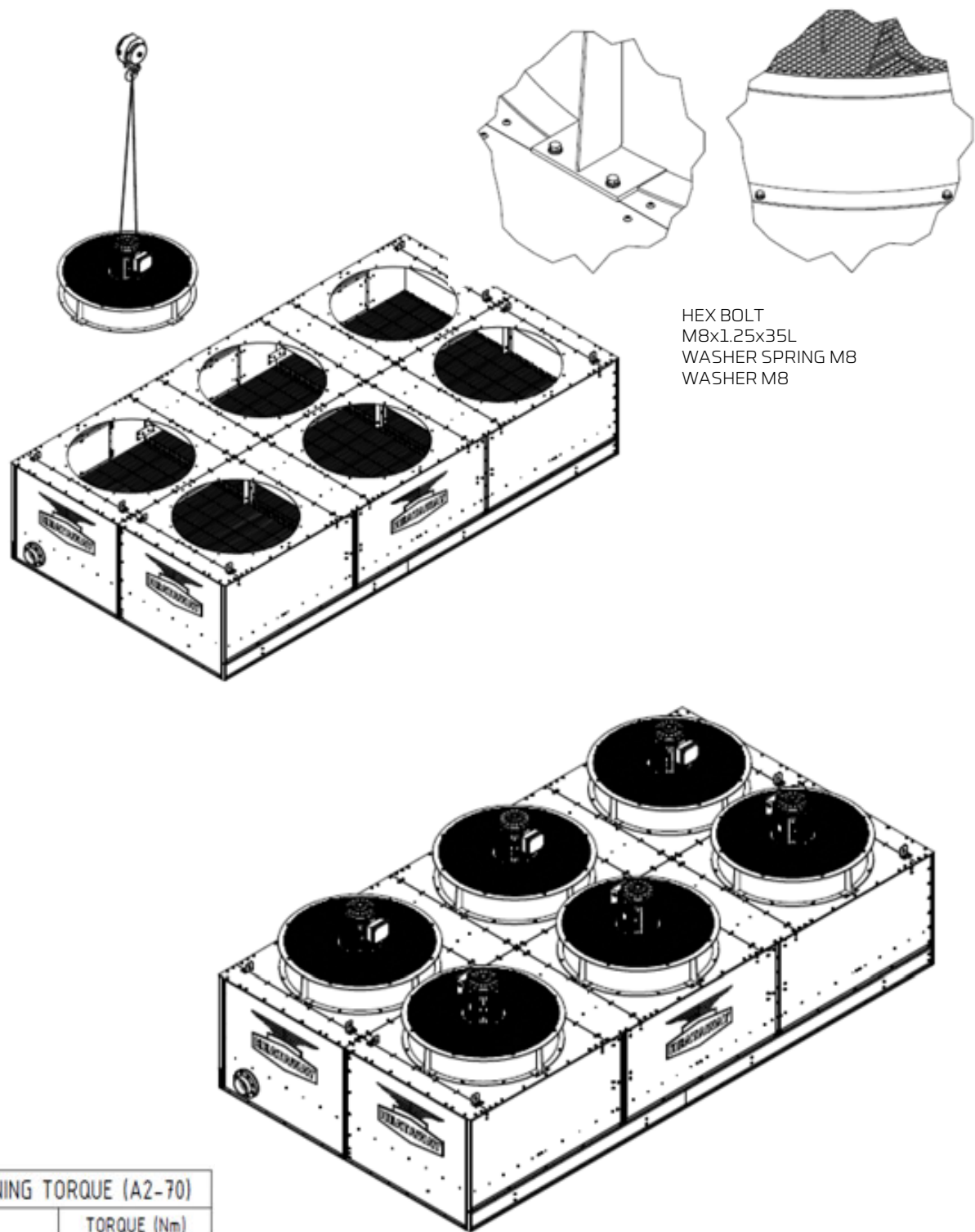
HEX NUT M10
SPRING WASHER FOR
M10
WASHER FOR M10
HEX BOLT
M10x1.5x30L

HEX NUT M8
WASHER FOR M8
HEX BOLT
M8x1.5x15L



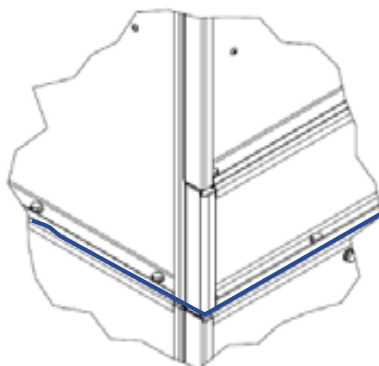
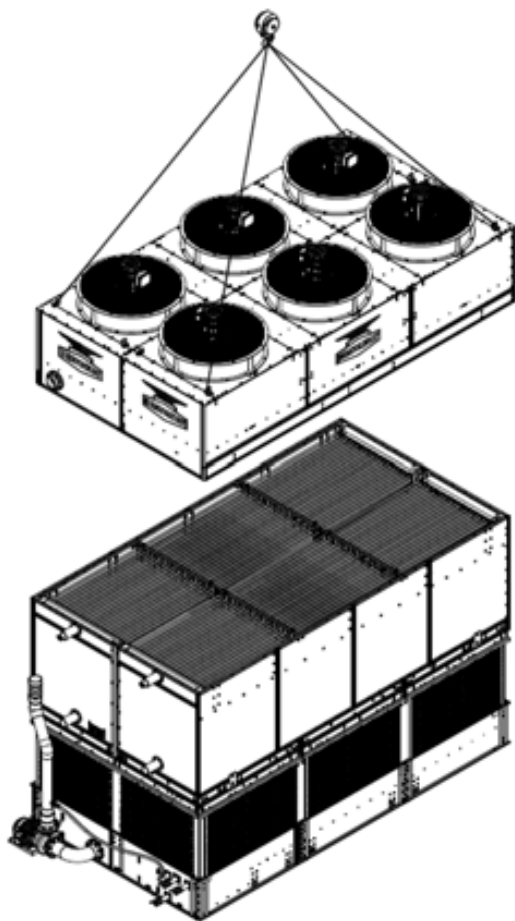
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Install FAN set With Motor to FAN Section



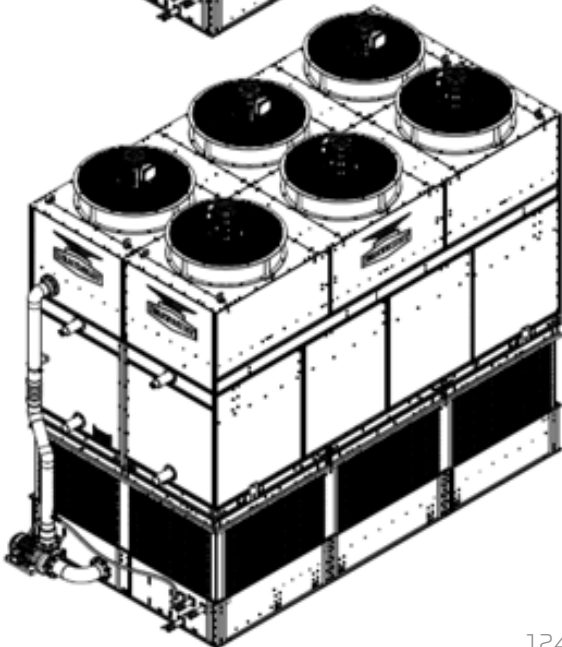
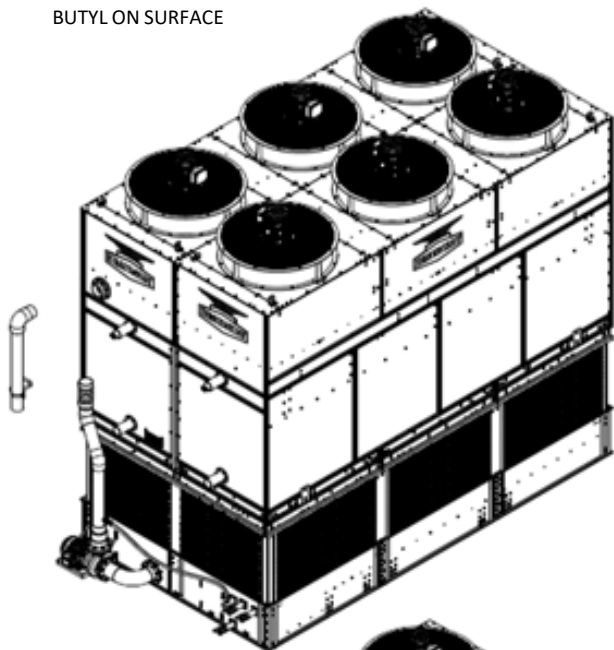
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

>> Install FAN Section



HEX BOLT M8x1.25x20L
WASHER SPRING M8
WASHER M8
HEX NUT M8 1.25

BUTYL ON SURFACE



TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



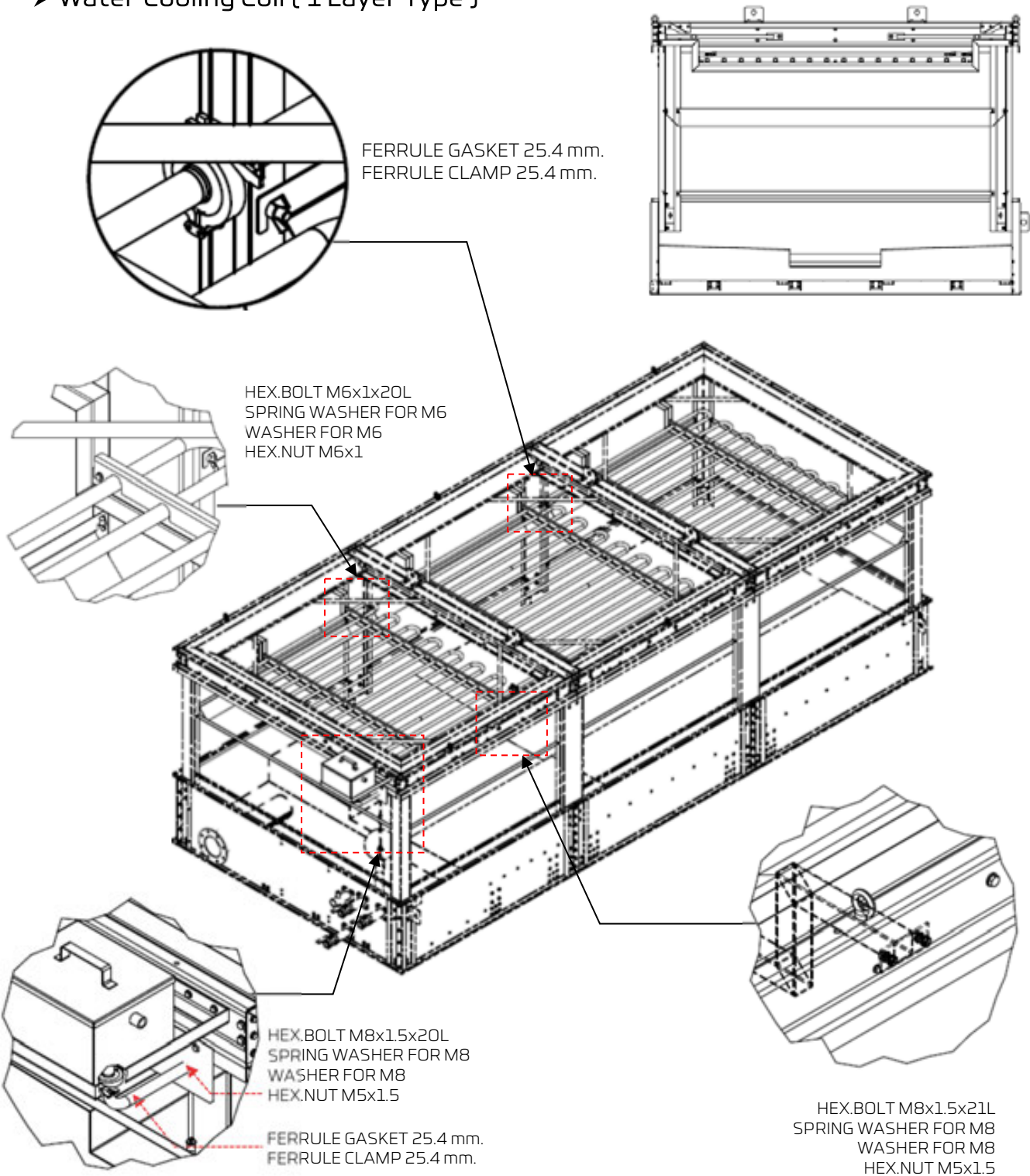
BRAND-NEW
9th GENERATION

RIGGING & ASSEMBLY INSTRUCTION

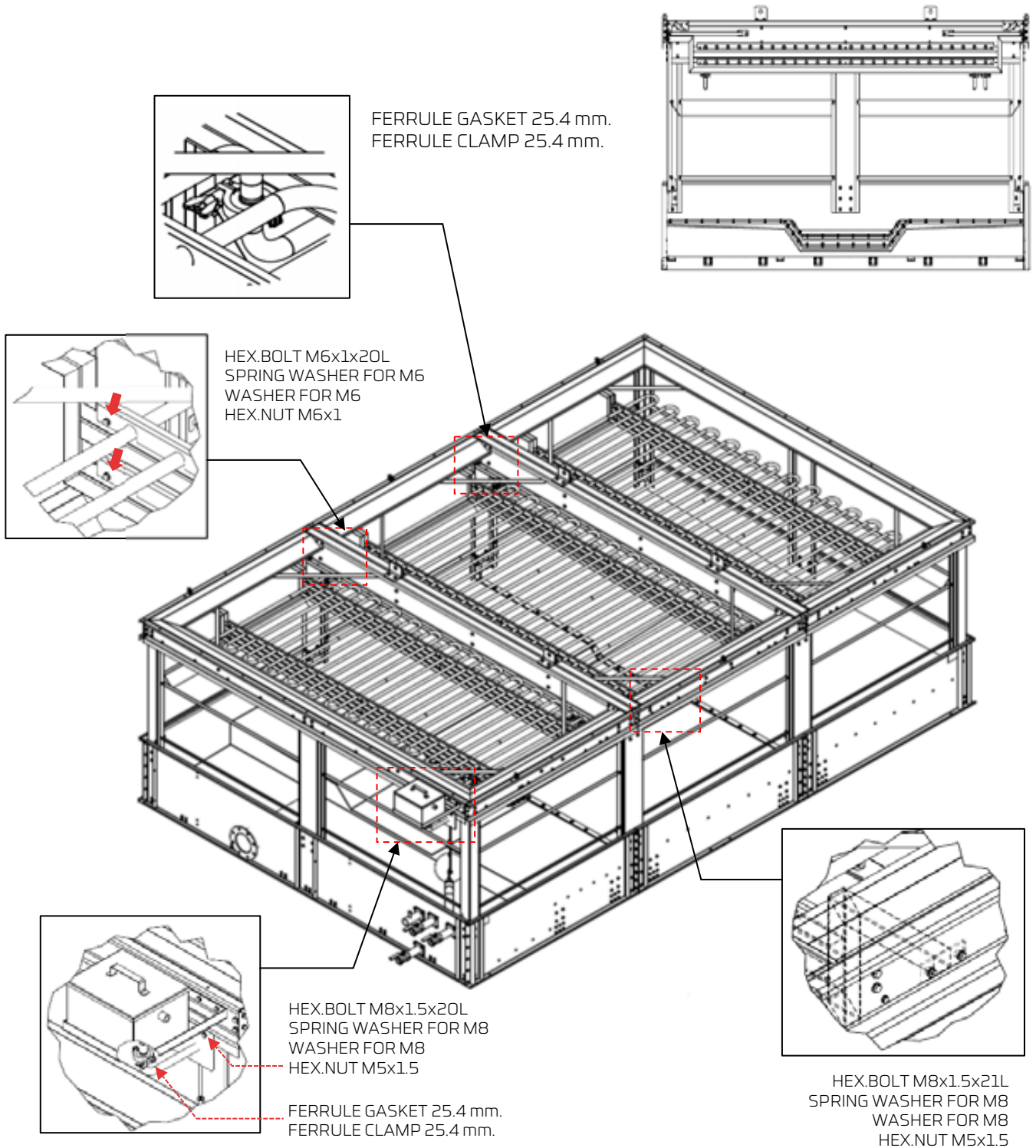
ADDITIONAL EQUIPMENT



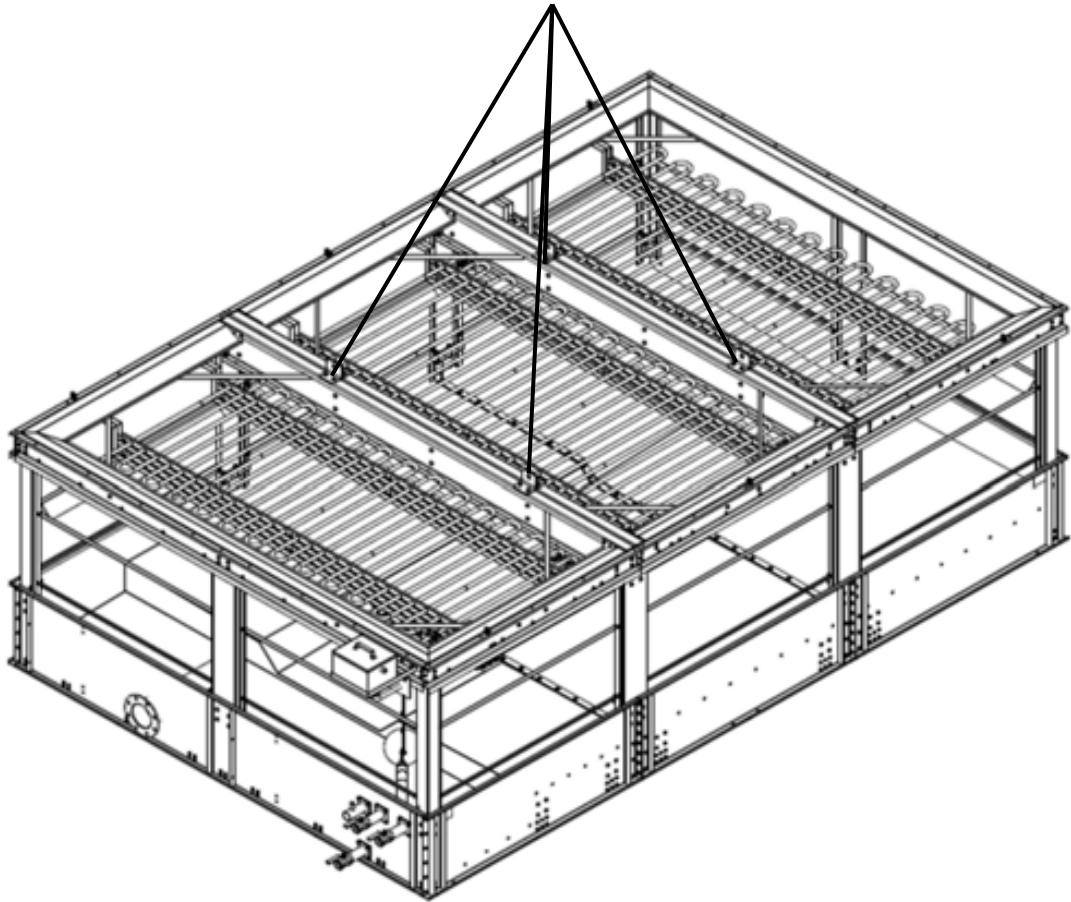
► Water Cooling Coil (1 Layer Type)



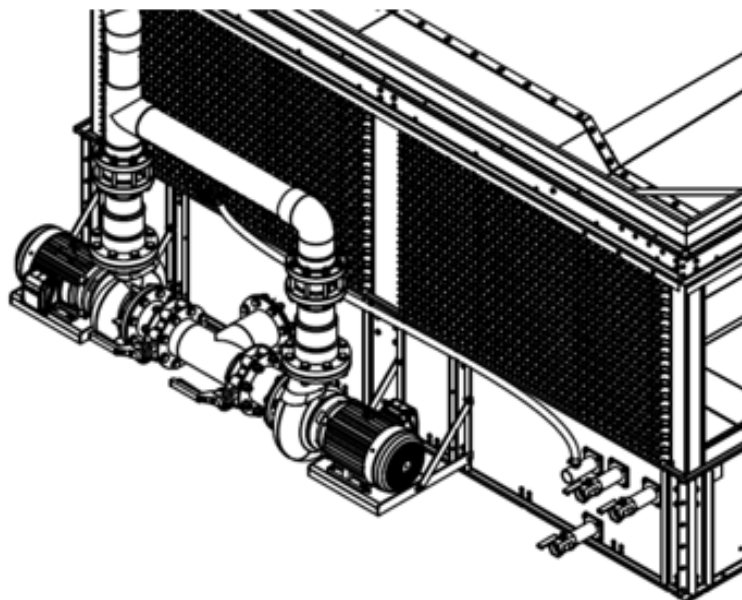
► Water Cooling Coil (2 Layer Type)



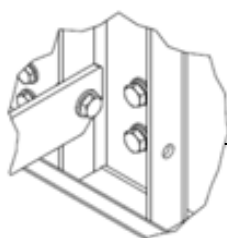
>> Process of BASIN SECTION with Water cooling coil move to position



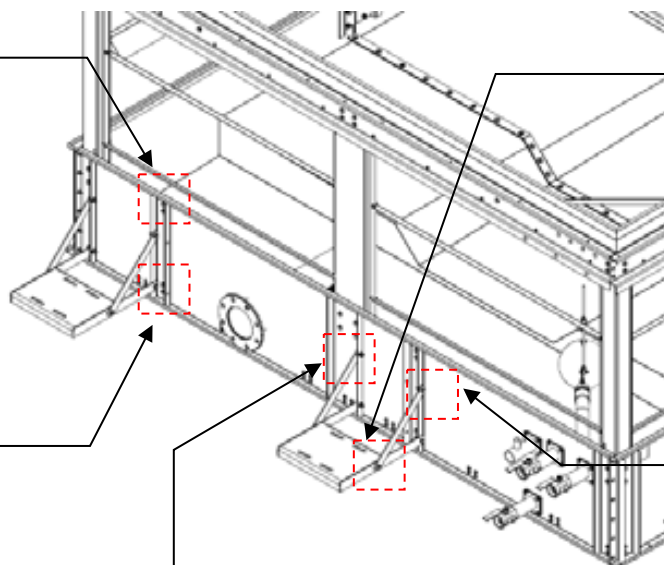
► Step 1: Start Assembly water pump base



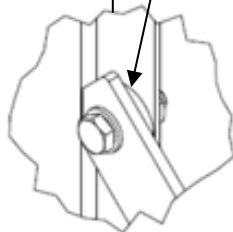
HEX.BOLT M10x1.5x25L
WASHER FOR M10
HEX.NUT LOCK M10x1.5



HEX.BOLT M10x1.5x30L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



WASHER

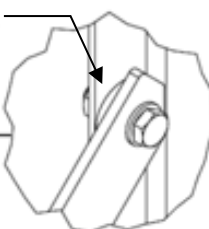


HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5



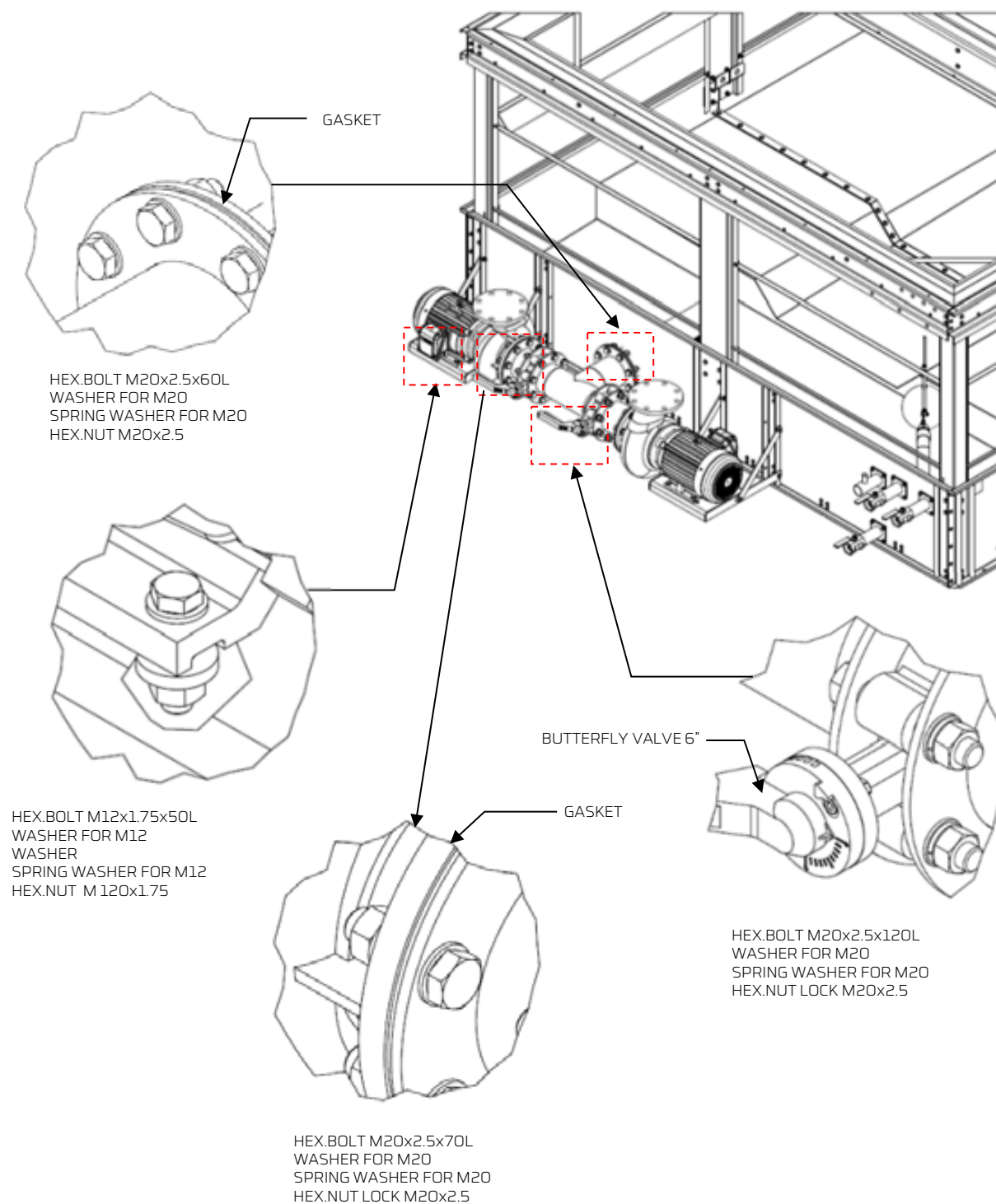
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5

WASHER

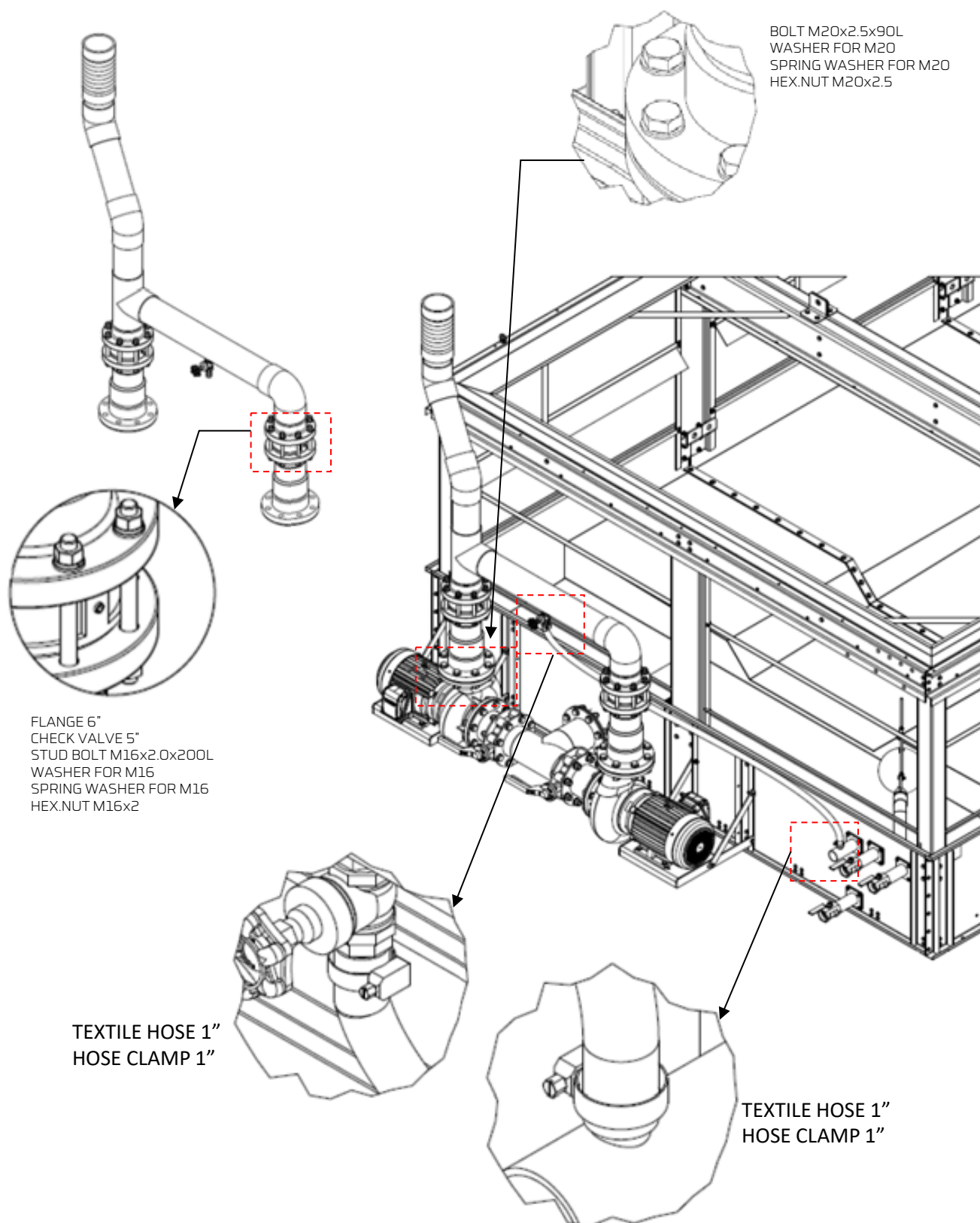


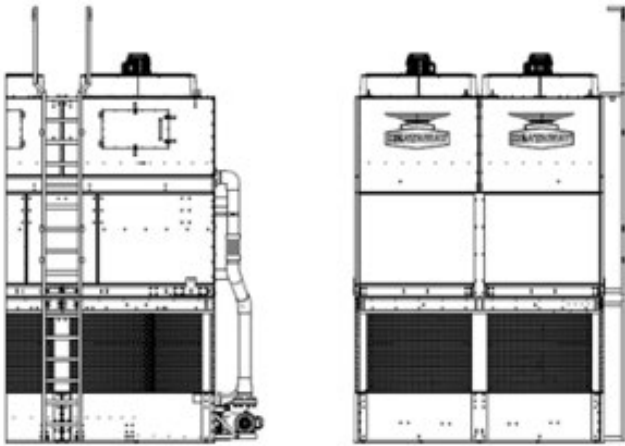
HEX.BOLT M10x1.5x35L
WASHER FOR M10
SPRING WASHER FOR M10
HEX.NUT M10x1.5

► Step 2 : Assembly water pump and Suction Pump pipe



► Step 3 : Assembly Lower pump pipe



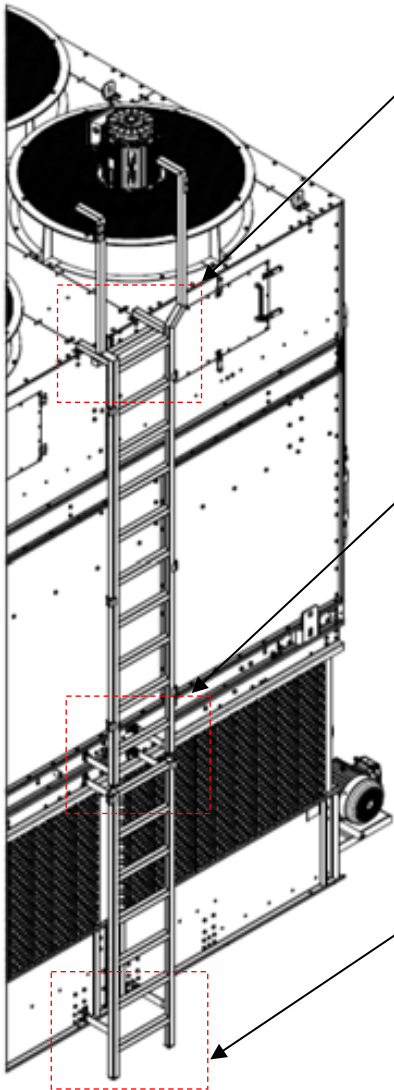


- 1. Lower Ladder 1 Unit
- 2. Upper Ladder 1 Unit

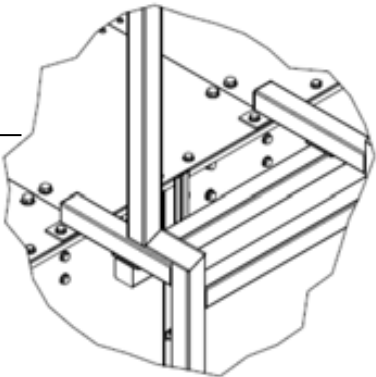


Upper Ladder Lower Ladder

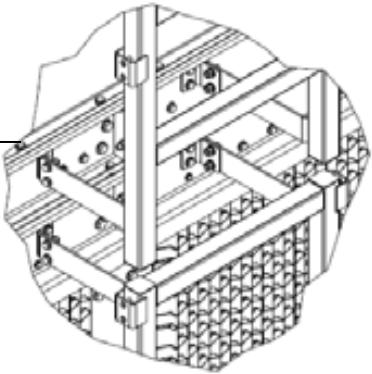
➤ Step 1: Start Assembly from Lower Ladder



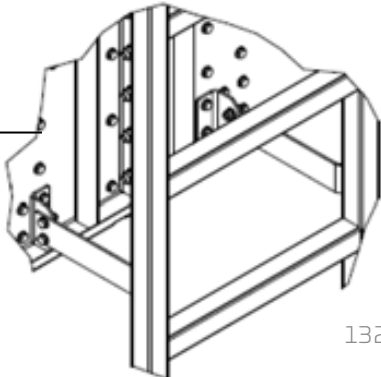
HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25

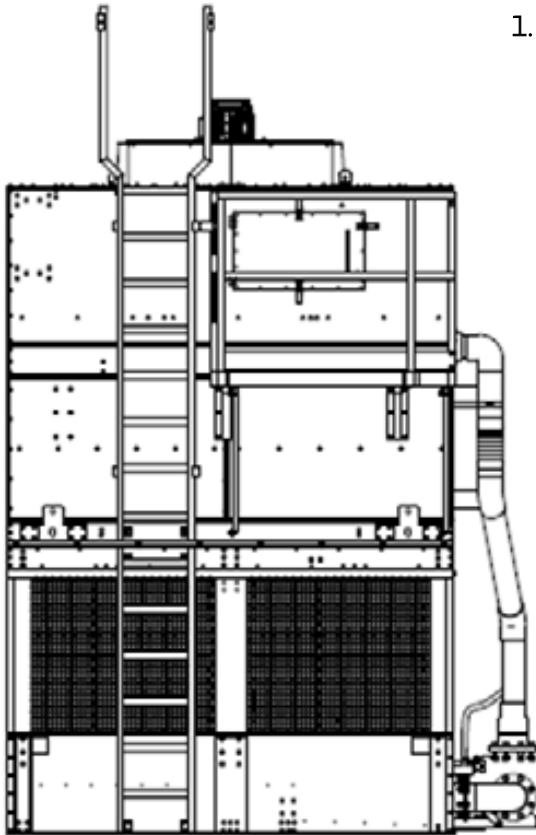


HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25



HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
HEX.NUT M8x1.25



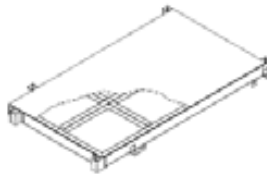


1. Platform A

- Platform Floor A
- Handrail A-1
- Handrail A-2
- Handrail A-3
- Beam support Platform

1 Set

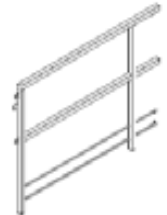
- 1 Unit
- 1 Unit
- 1 Unit
- 1 Unit
- 2 Units



Platform Floor A



Handrail A-1



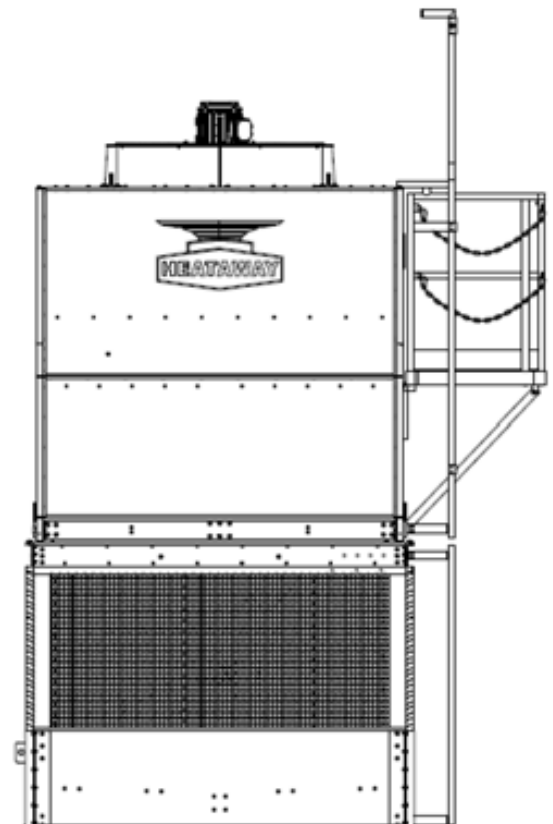
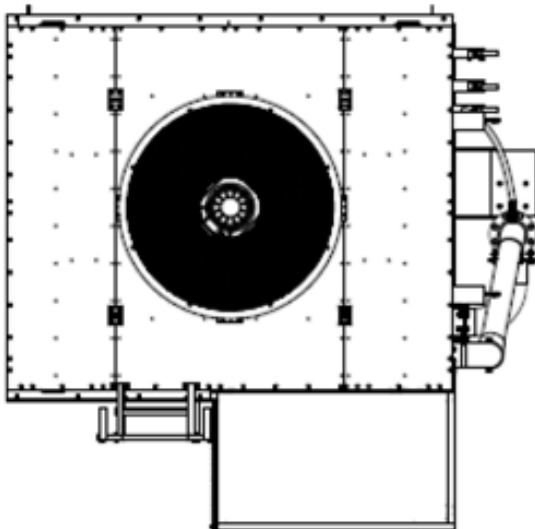
Handrail A-2



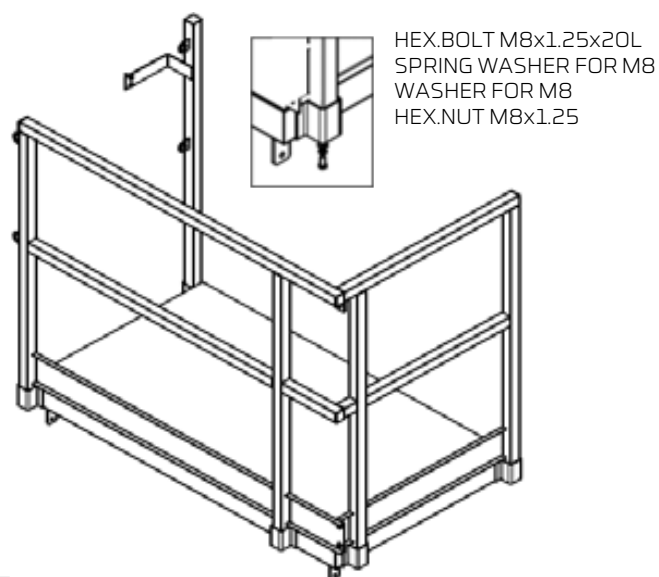
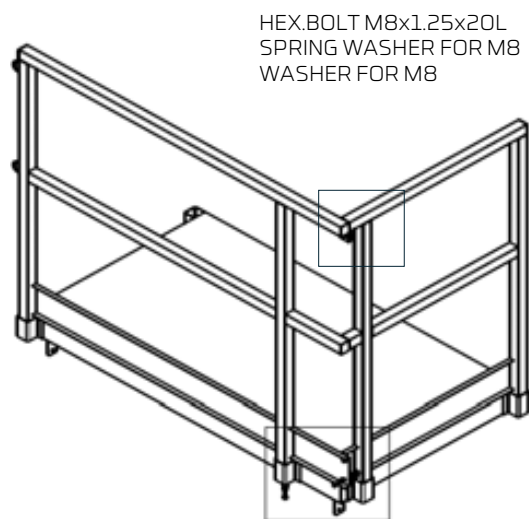
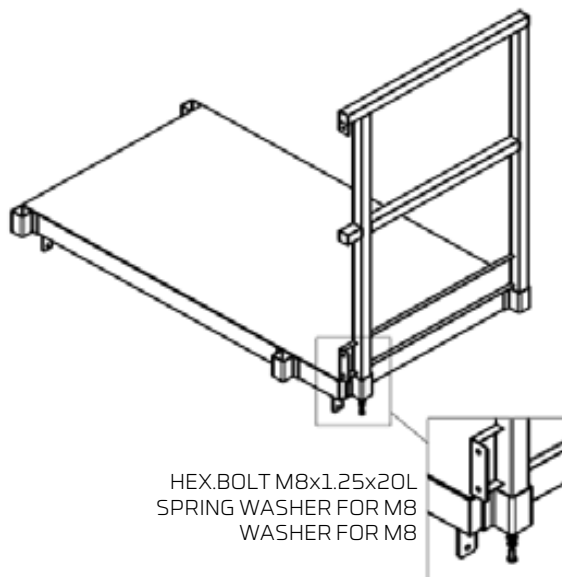
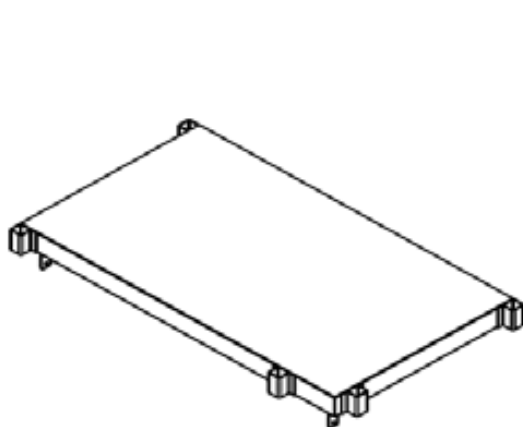
Handrail A-3



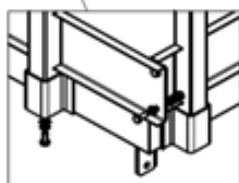
Beam support Platform



► Step 1: Start Assembly from Platform A

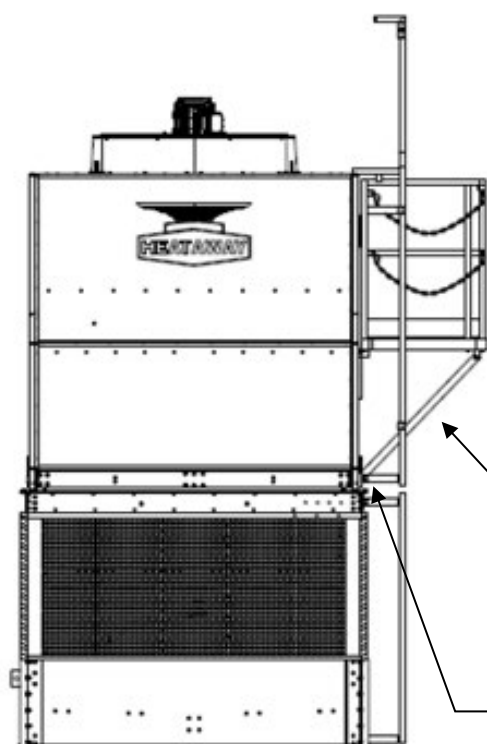


HEX.BOLT
M8x1.25x20L
SPRING WASHER
FOR M8
WASHER FOR M8
HEX.NUT M8x1.25



HEX.BOLT
M8x1.25x20L
SPRING WASHER
FOR M8
WASHER FOR M8
HEX.NUT M8x1.25

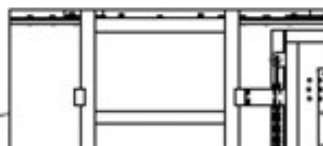
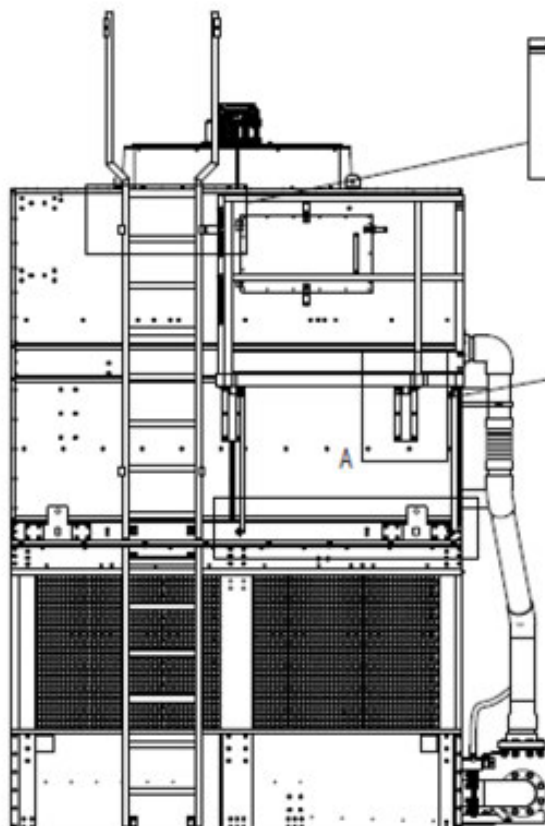
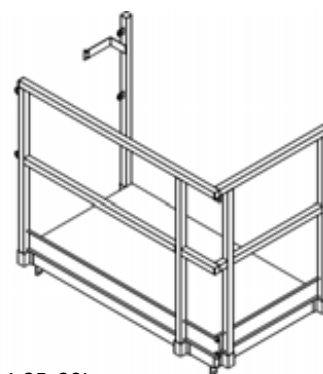
► Step 2 : Install Platform A



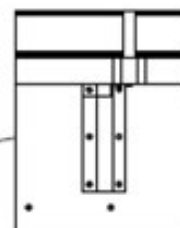
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

Beam support Platform

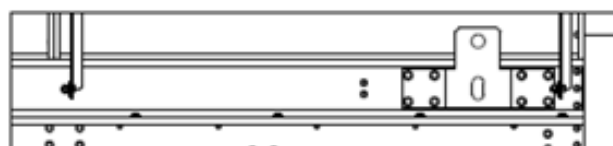
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

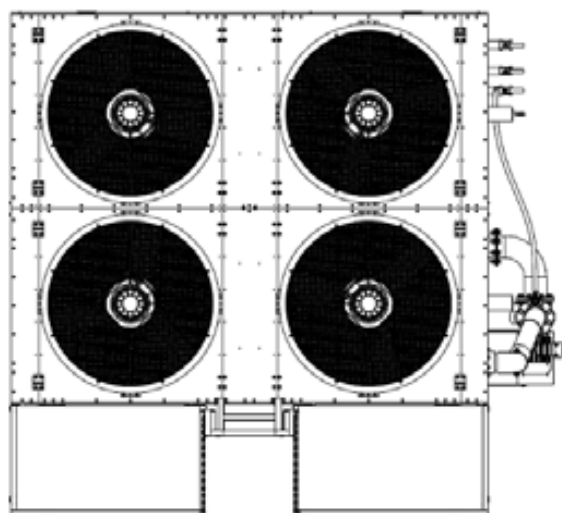
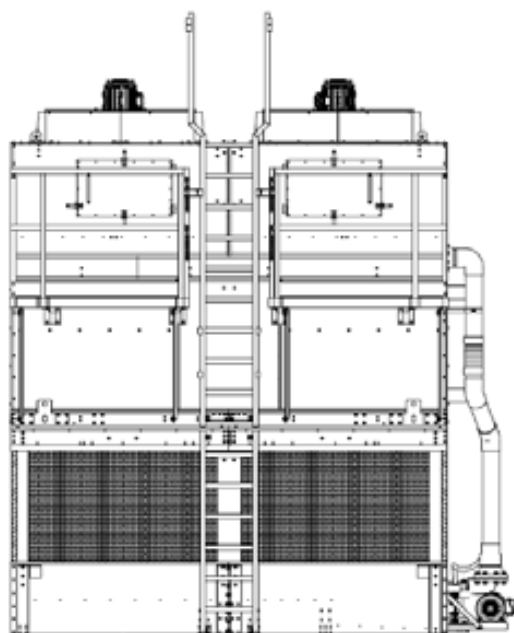


HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



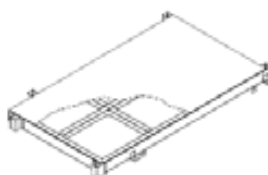
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR
M10
WASHER FOR M10
HEX.NUT M10x1.25



1. Platform A

- | | |
|-------------------------|---------|
| - Platform Floor A | 1 Set |
| - Handrail A-1 | 1 Unit |
| - Handrail A-2 | 1 Unit |
| - Handrail A-3 | 1 Unit |
| - Beam support Platform | 2 Units |



Platform Floor A



Handrail A-1



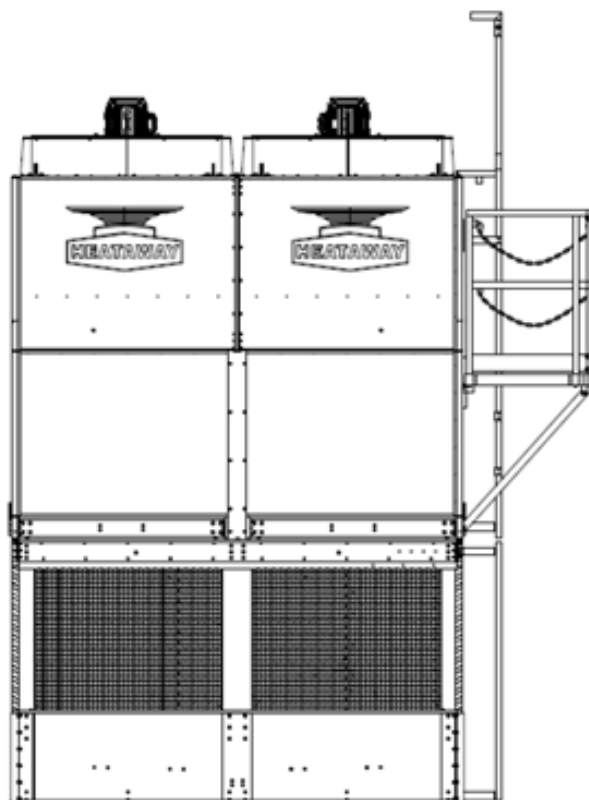
Handrail A-2



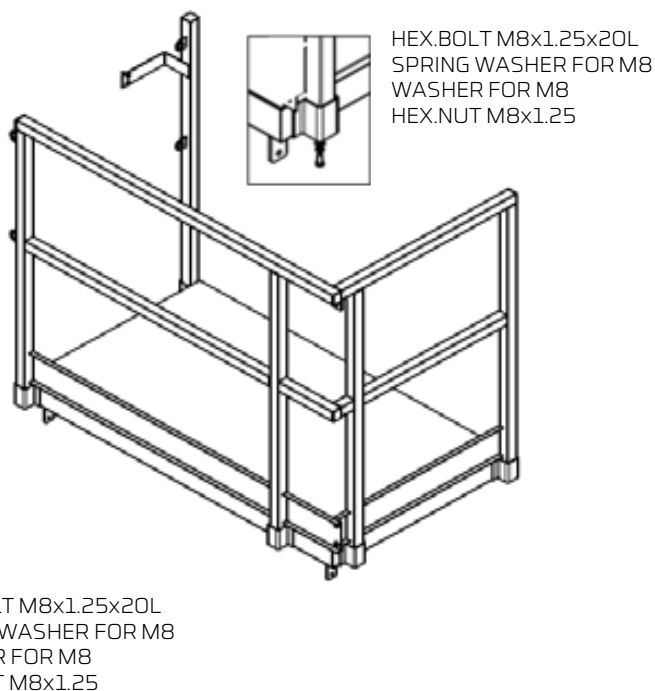
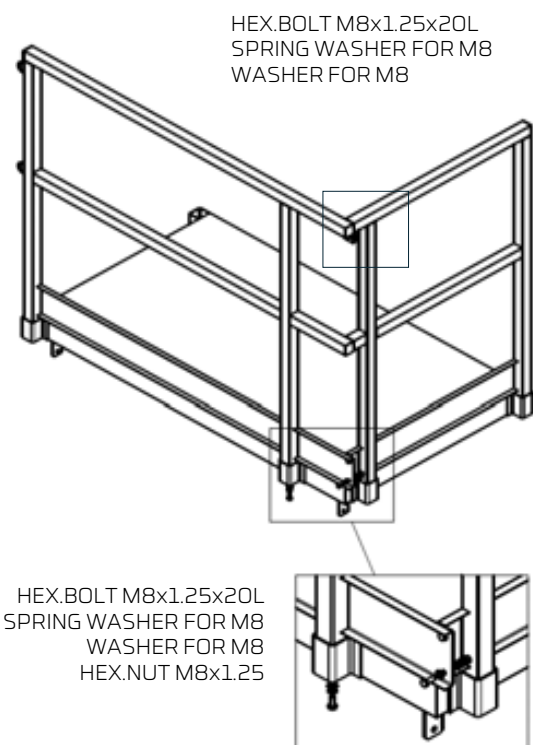
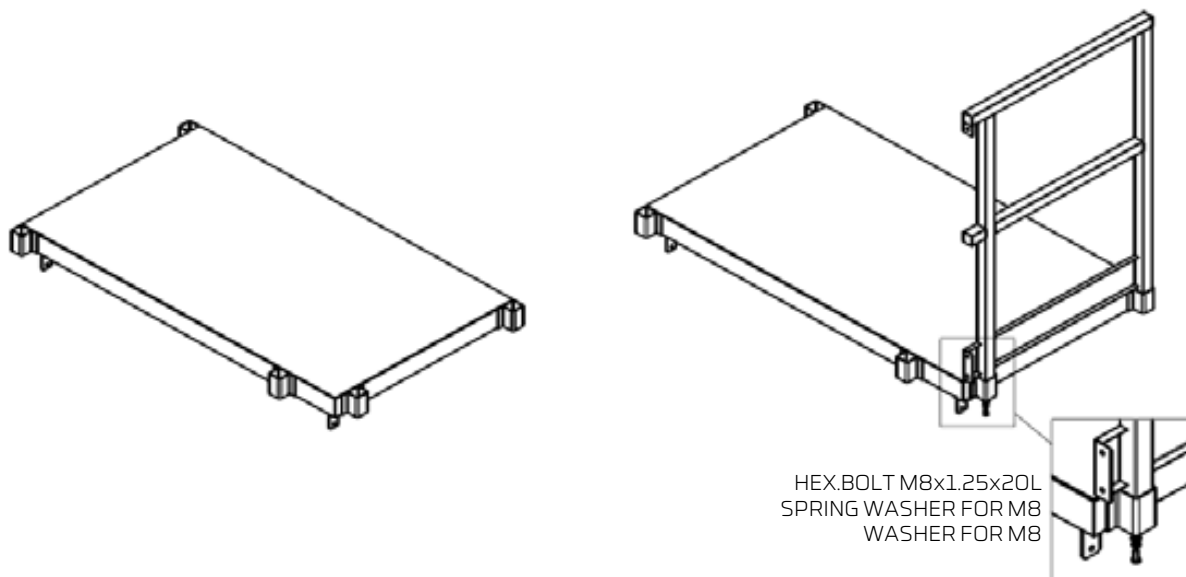
Handrail A-3



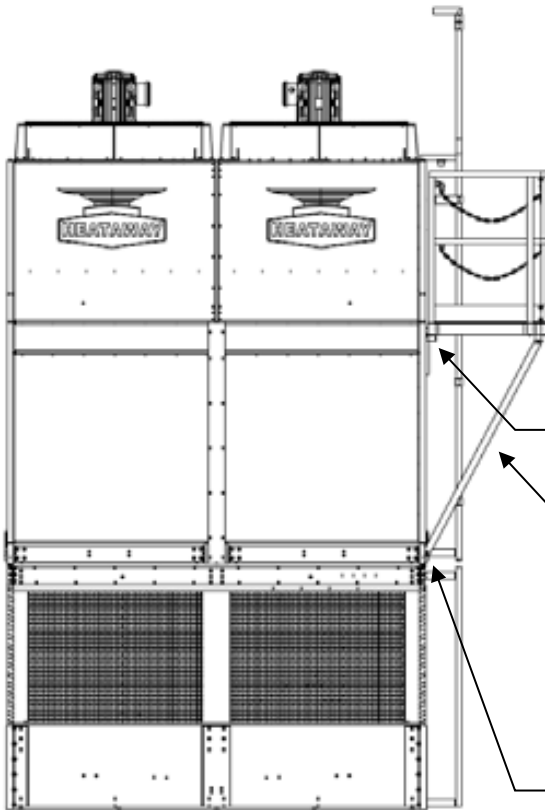
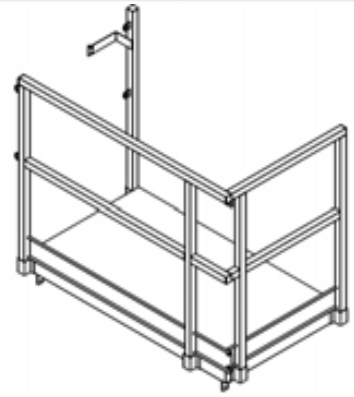
Beam support Platform



► Step 1: Start Assembly from Platform A



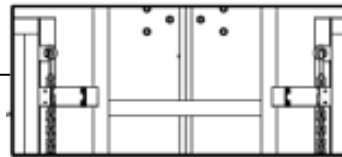
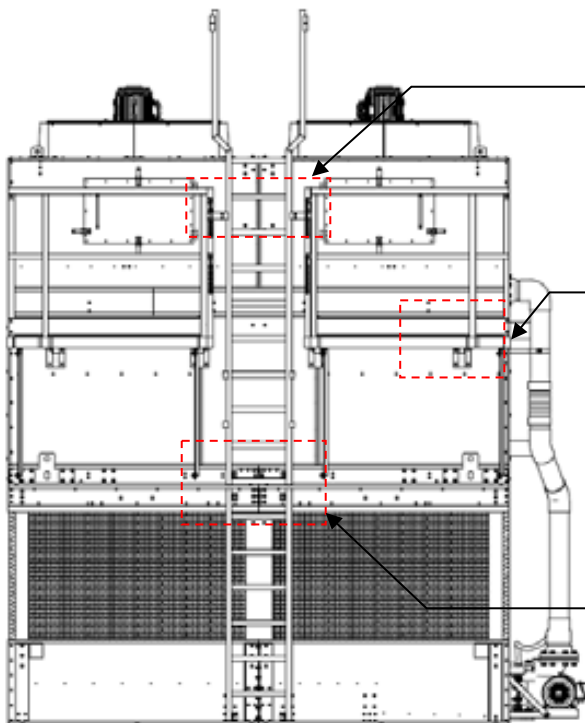
► Step 1: Start Assembly from Platform A



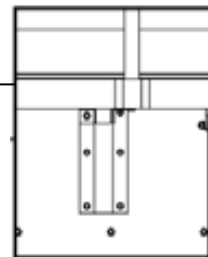
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

Beam support Platform

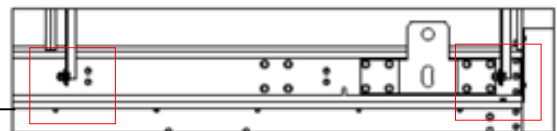
HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

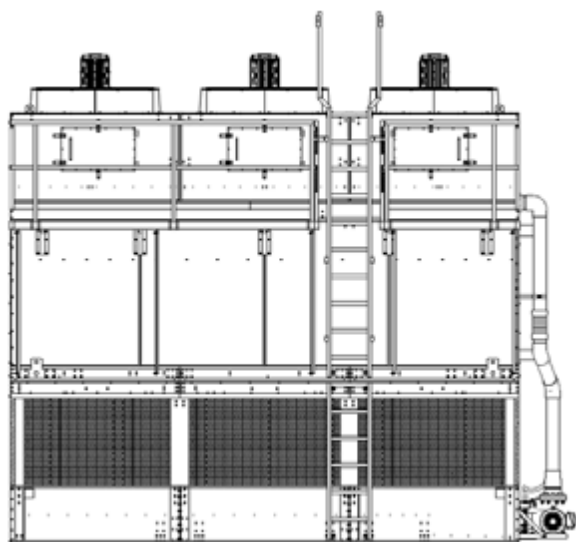


HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25



HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

HEX.BOLT M10x1.25x30L
SPRING WASHER FOR M10
WASHER FOR M10
HEX.NUT M10x1.25

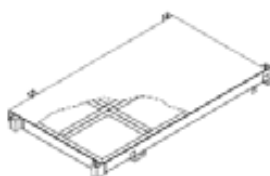


1. Platform A

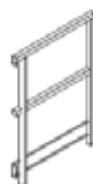
- Platform Floor A
- Handrail A-1
- Handrail A-2
- Handrail A-3
- Beam support Platform

1 Set

- 1 Unit
- 1 Unit
- 1 Unit
- 1 Unit
- 2 Units



Platform Floor
A



Handrail A-1



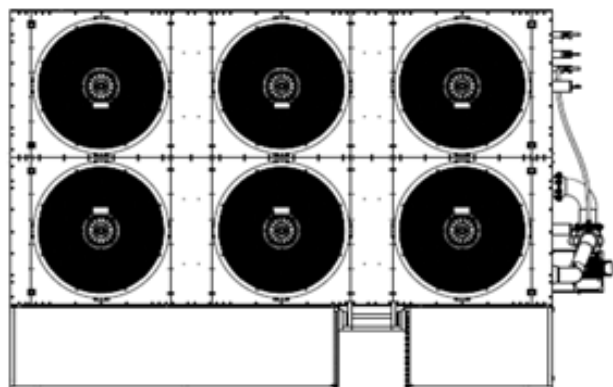
Handrail A-2



Handrail A-3



Beam support Platform

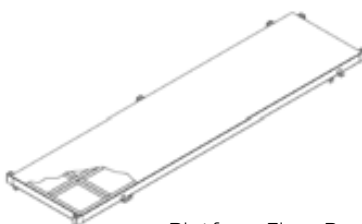


2. Platform B

- Platform Floor B
- Handrail B-1
- Handrail B-2
- Handrail B-3
- Beam support Platform

1 Set

- 1 Unit
- 1 Unit
- 1 Unit
- 1 Unit
- 3 Unit



Platform Floor B



Handrail B-1



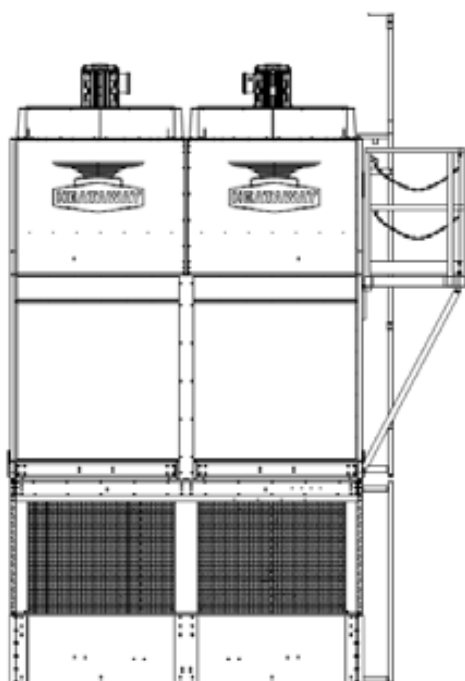
Handrail B-2



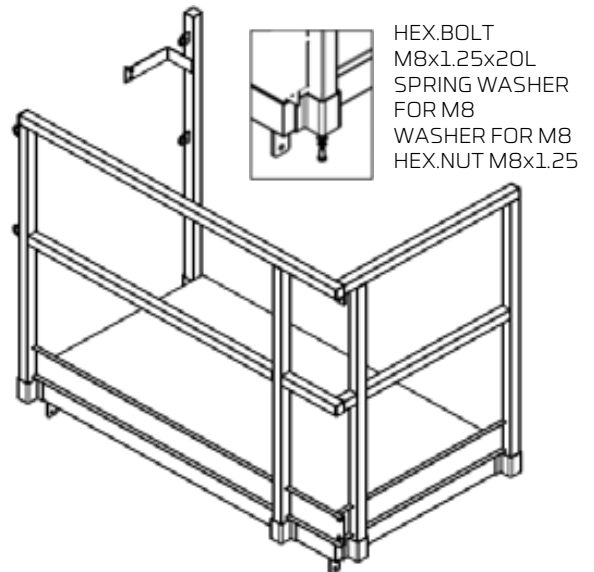
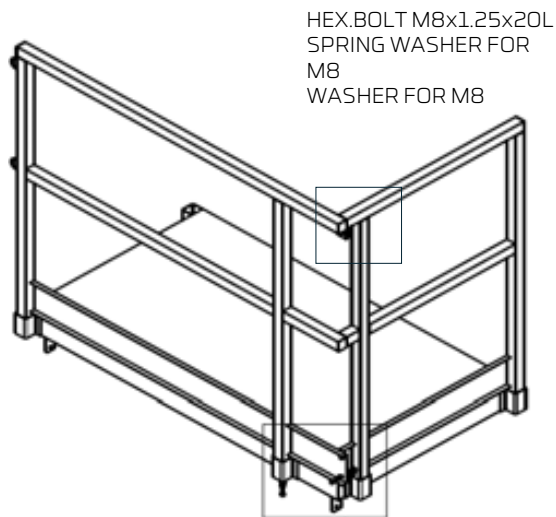
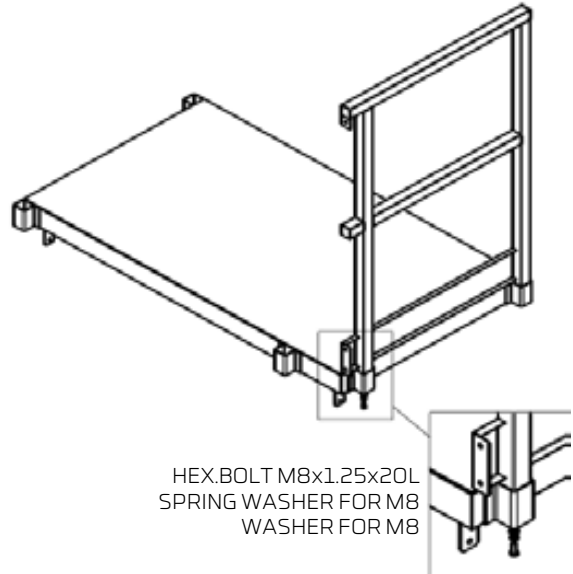
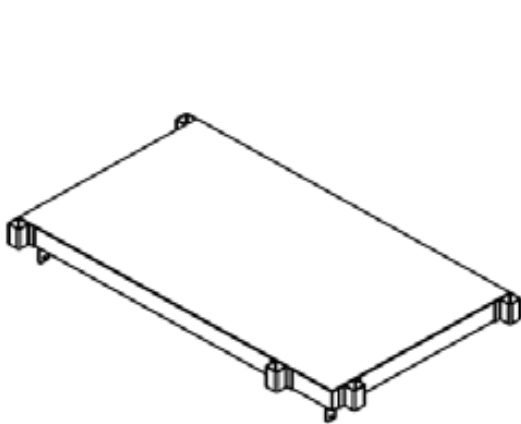
Handrail B-3



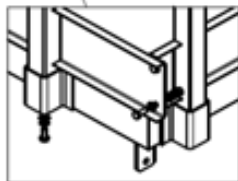
Beam support Platform



► Step 1: Start Assembly from Platform A

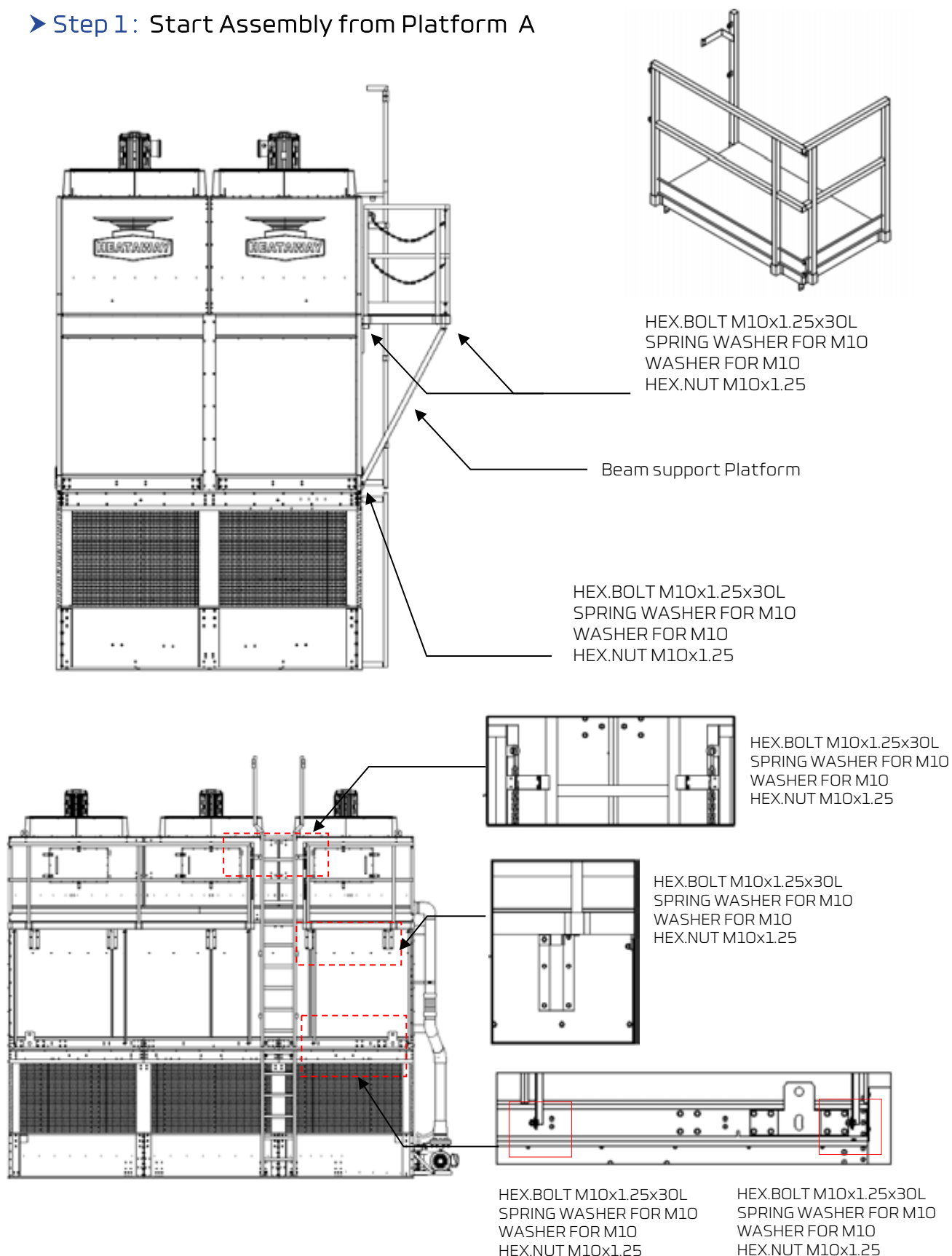


HEX.BOLT
M8x1.25x20L
SPRING WASHER
FOR M8
WASHER FOR M8
HEX.NUT M8x1.25

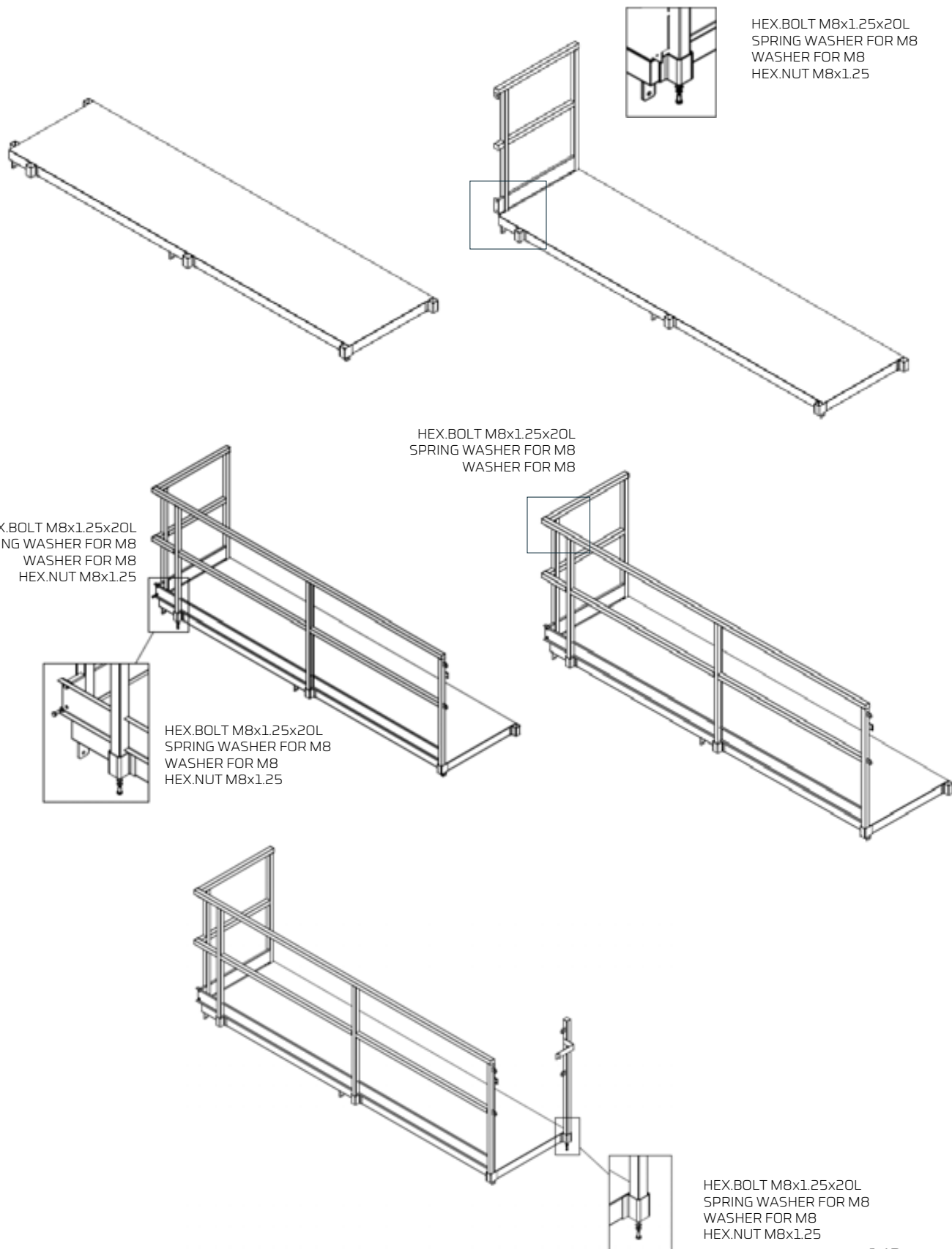


HEX.BOLT
M8x1.25x20L
SPRING WASHER
FOR M8
WASHER FOR M8
HEX.NUT M8x1.25

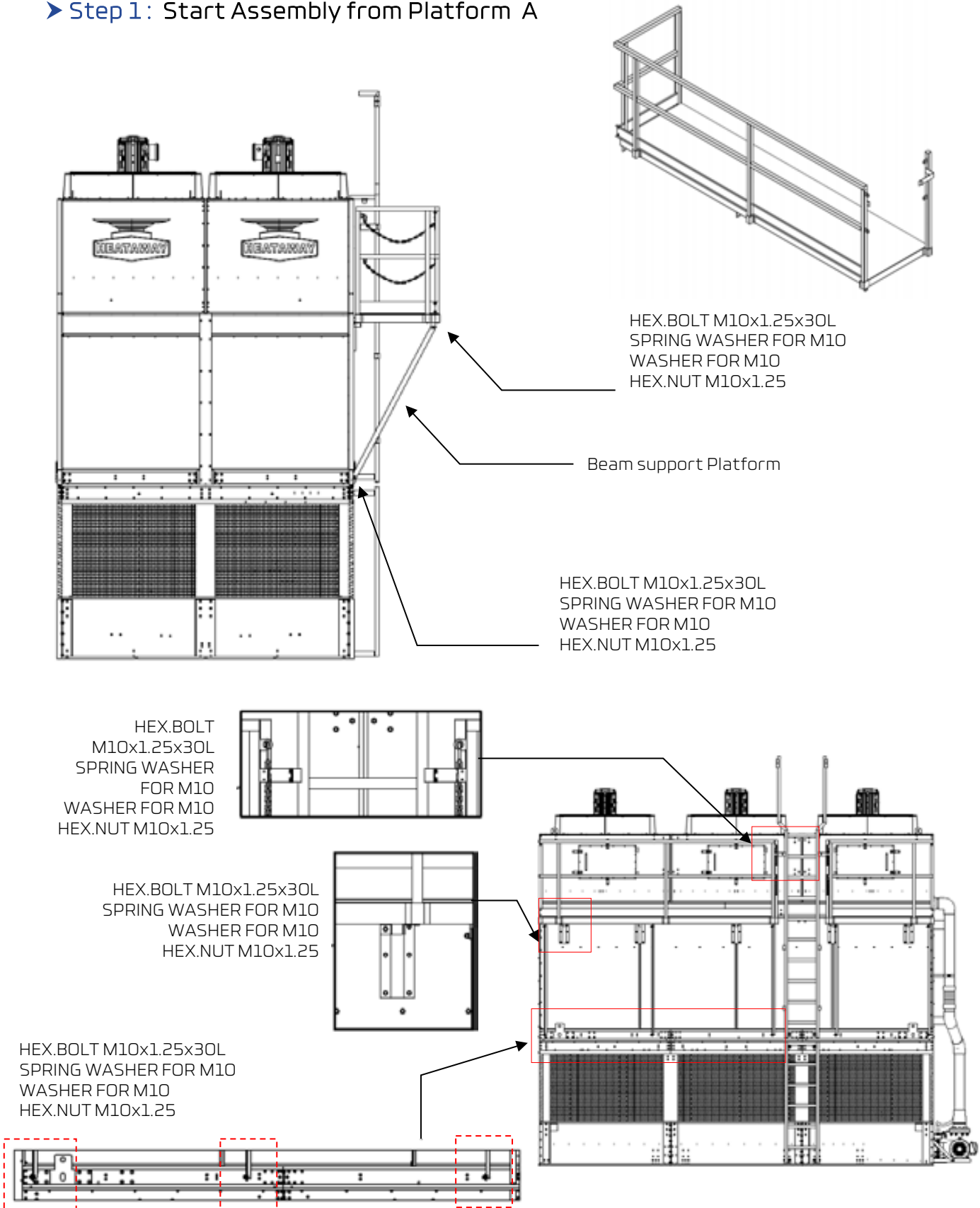
► Step 1: Start Assembly from Platform A



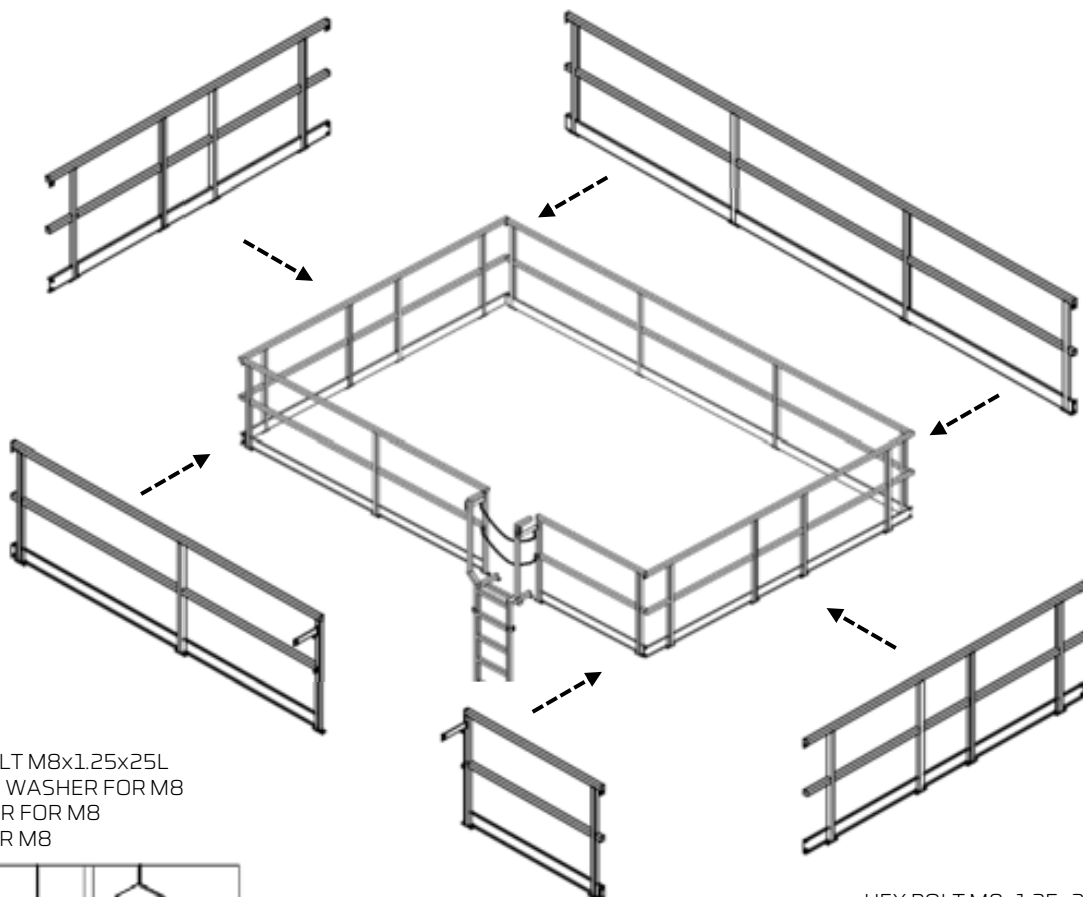
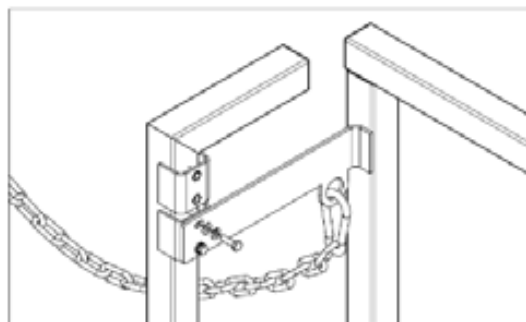
► Step 2 : Start Assembly from Platform B



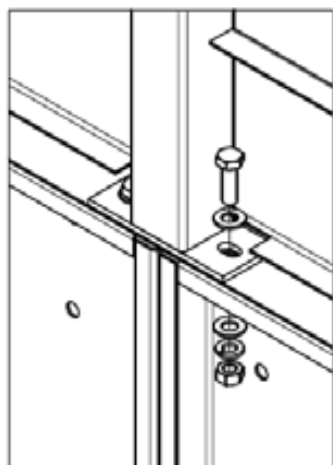
► Step 1: Start Assembly from Platform A



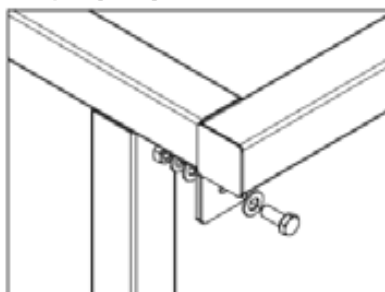
HEX.BOLT M6x1.25x20L
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6



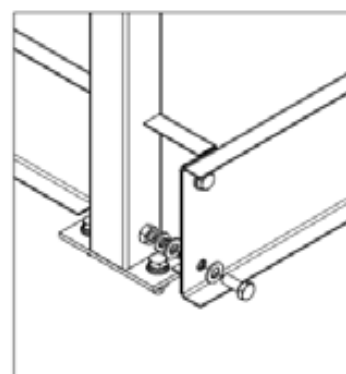
HEX.BOLT M8x1.25x25L
SPRING WASHER FOR M8
WASHER FOR M8
NUT FOR M8



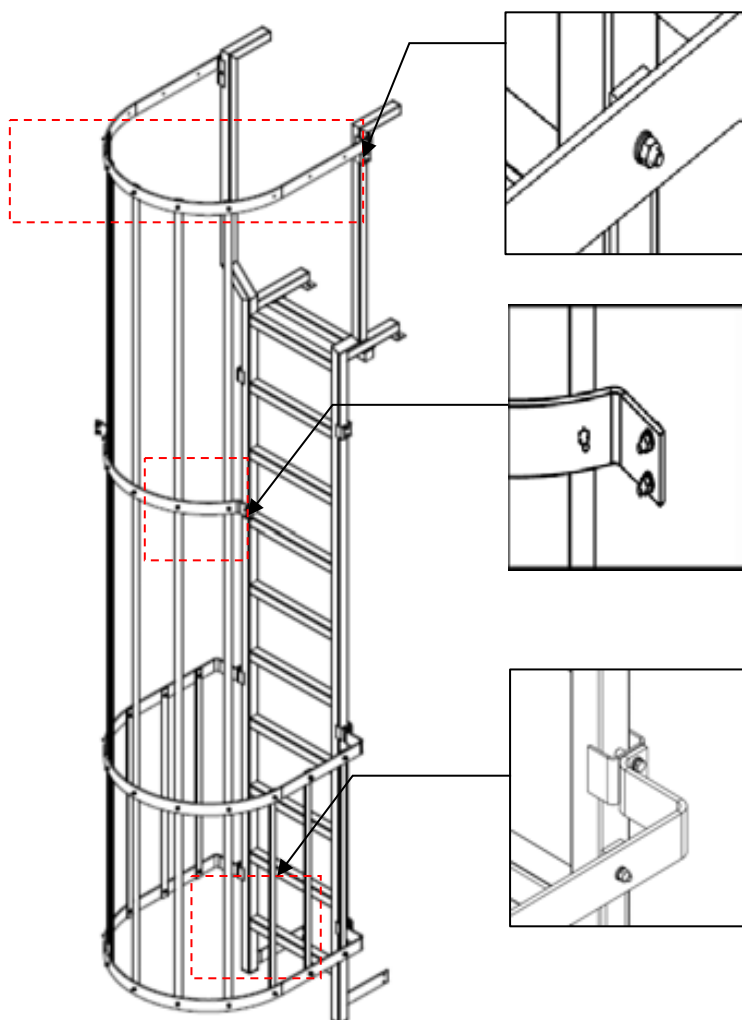
HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
NUT FOR M8



HEX.BOLT M8x1.25x20L
SPRING WASHER FOR M8
WASHER FOR M8
NUT FOR M8



► Standard Cage

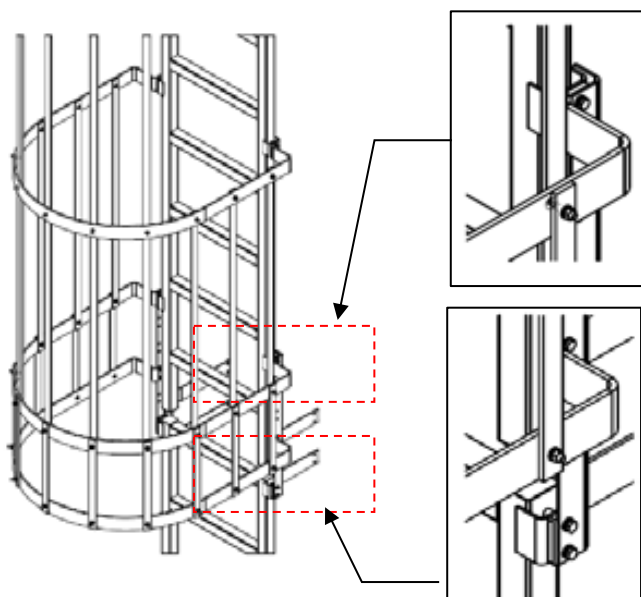


HEX.BOLT M6x1.25x25L (PAN HEAD)
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6

HEX.BOLT M6x1.25x25L (PAN HEAD)
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6

HEX.BOLT M6x1.25x25L
SPRING WASHER FOR M6
WASHER FOR M6

► Addition cage



HEX.BOLT M6x1.25x30L (PAN HEAD)
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6

HEX.BOLT M6x1.25x25L
SPRING WASHER FOR M6
WASHER FOR M6
NUT FOR M6