



# 9<sup>th</sup> GENERATION STAINLESS STEEL EVAPORATIVE CONDENSERS

## RIGGING & ASSEMBLY INSTRUCTION

### EC9 MODEL AND ADDITIONAL EQUIPMENT





## "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
8' X 9' (2.4 X 2.7 m)	EC9-0510-0809C-S EC9-0620-0809C-S EC9-0710-0809C-S EC9-0750-0809C-S EC9-0860-0809C-L EC9-0910-0809C-L
8' X 12' (2.4 X 3.6 m)	EC9-0930-0812C-L EC9-1000-0812C-S EC9-1040-0812C-M EC9-1150-0812C-L EC9-1190-0812C-M EC9-1250-0812C-M EC9-1310-0812C-L EC9-1360-0812C-L
8' X 18' (2.4 X 5.5 m)	EC9-1300-0818C-S EC9-1480-0818C-L EC9-1570-0818C-S EC9-1630-0818C-M EC9-1760-0818C-S EC9-1850-0818C-M EC9-1940-0818C-M EC9-2070-0818C-L EC9-2120-0818C-L
10' X 12' (3.0 X 3.6 m)	EC9-1400-1012C-S EC9-1550-1012C-M EC9-1645-1012C-L EC9-1790-1012C-M EC9-1900-1012C-L EC9-1960-1012C-M EC9-2050-1012C-L

Footprint	Model
10' X 18' (3.0 X 5.5 m)	EC9-2250-1018C-S EC9-2450-1018C-M EC9-2550-1018C-S EC9-2790-1018C-M EC9-2960-1018C-L EC9-3000-1018C-M EC9-3200-1018C-L
12' X 12' (3.6 X 3.6 m)	EC9-1650-1212C-S EC9-1800-1212C-M EC9-1950-1212C-L EC9-2030-1212C-M EC9-2220-1212C-M EC9-2400-1212C-L
12' X 18' (3.6 X 5.5 m)	EC9-2600-1218C-S EC9-2800-1218C-M EC9-2950-1218C-S EC9-3210-1218C-M EC9-3500-1218C-M EC9-3800-1218C-L



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8' X 12' ( 2.4 X 3.6 m )	EC9-0930-0812C-L EC9-1000-0812C-S EC9-1040-0812C-M EC9-1150-0812C-L EC9-1190-0812C-M EC9-1250-0812C-M EC9-1310-0812C-L EC9-1360-0812C-L	17
8' X 18' ( 2.4 X 5.5 m )	EC9-1300-08182-5 EC9-1480-0818C-L EC9-1570-0818C-S EC9-1630-0818C-M EC9-1760-0818C-S EC9-1850-0818C-M EC9-1940-0818C-M EC9-2070-0818C-L EC9-2120-0818C-L	34
10' X 12' ( 3.0 X 3.6 m )	EC9-1400-1012C-S EC9-1550-1012C-M EC9-1645-1012C-L EC9-1790-1012C-M EC9-1900-1012C-L EC9-1960-1012C-M EC9-2050-1012C-L	51
10' X 18' ( 3.0 X 5.5 m )	EC9-2250-1018C-S EC9-2450-1018C-M EC9-2550-1018C-S EC9-2790-1018C-M EC9-2960-1018C-L EC9-3000-1018C-M EC9-3200-1018C-L	71
12' X 12' ( 3.6 X 3.6 m )	EC9-1650-1212C-S EC9-1800-1212C-M EC9-1950-1212C-L EC9-2030-1212C-M EC9-2220-1212C-M EC9-2400-1212C-L	92
12' X 18' ( 3.6 X 5.5 m )	EC9-2600-1218C-S EC9-2800-1218C-M EC9-2950-1218C-S EC9-3210-1218C-M EC9-3500-1218C-M EC9-3800-1218C-L	112



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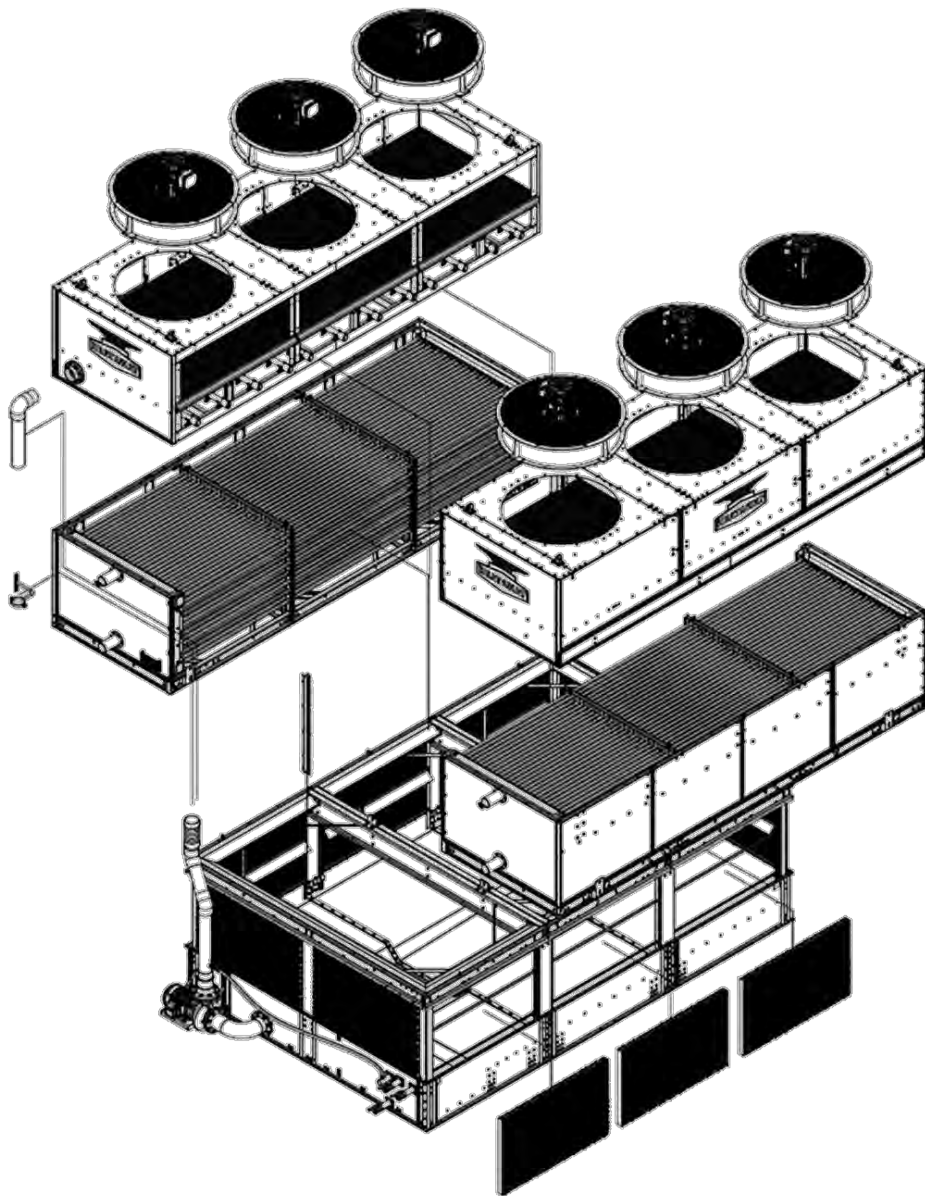
## 3. Installation Additional Equipment of EC9

Equipment	Details	Page
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Standby Water pump	Additional Standby Water pump	137
Ladder	Standard Ladder and Customize Ladder	140
Platform	Platform for footprint Length 9' Platform for footprint Length 12' Platform for footprint Length 18'	143 144 147
Top Handrail	Standard Top Handrail	152
Cage	Standard cage Addition cage	153



# Installation outline

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



BRAND-NEW  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

Footprint

**8' X 9'**

Model

EC9-0510-0809C-S

EC9-0620-0809C-S

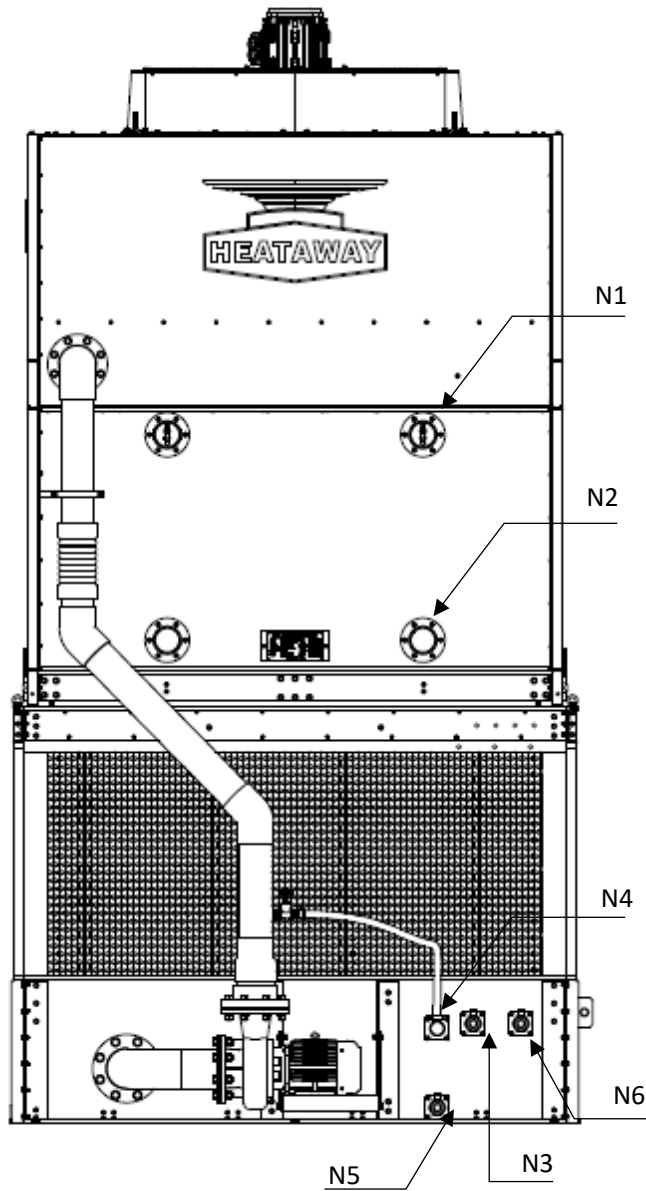
EC9-0710-0809C-S

EC9-0750-0809C-S

EC9-0860-0809C-L

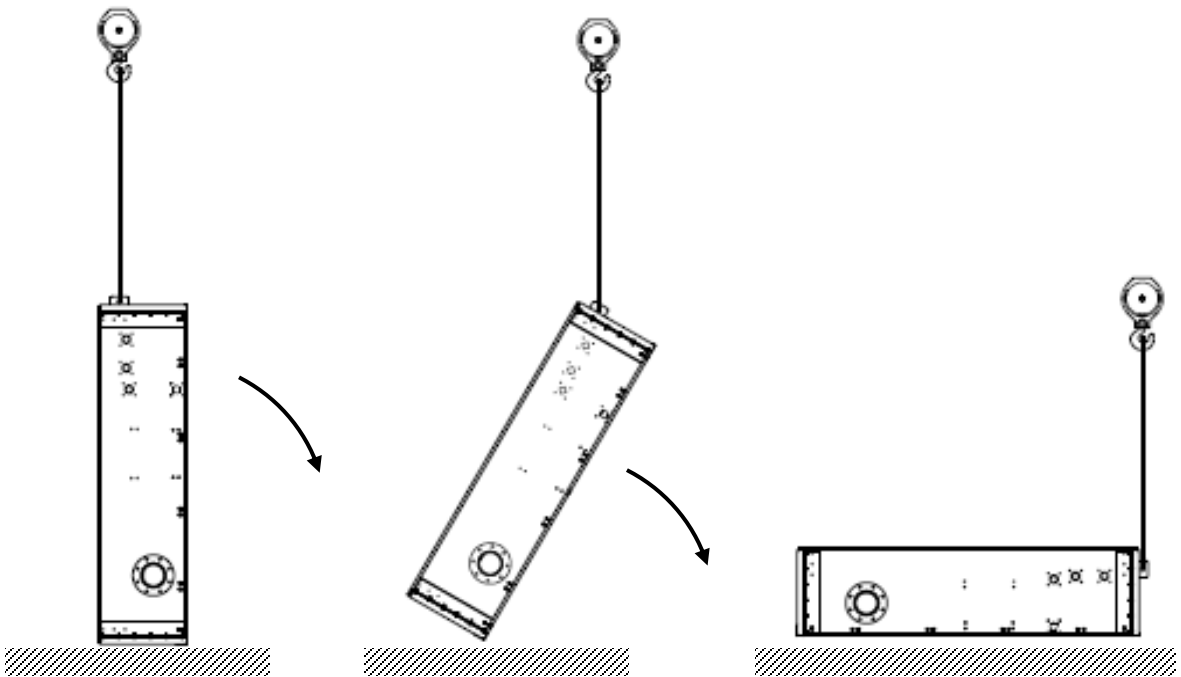
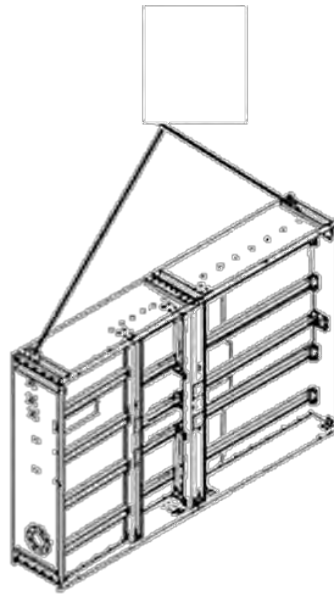
EC9-0910-0809C-L





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

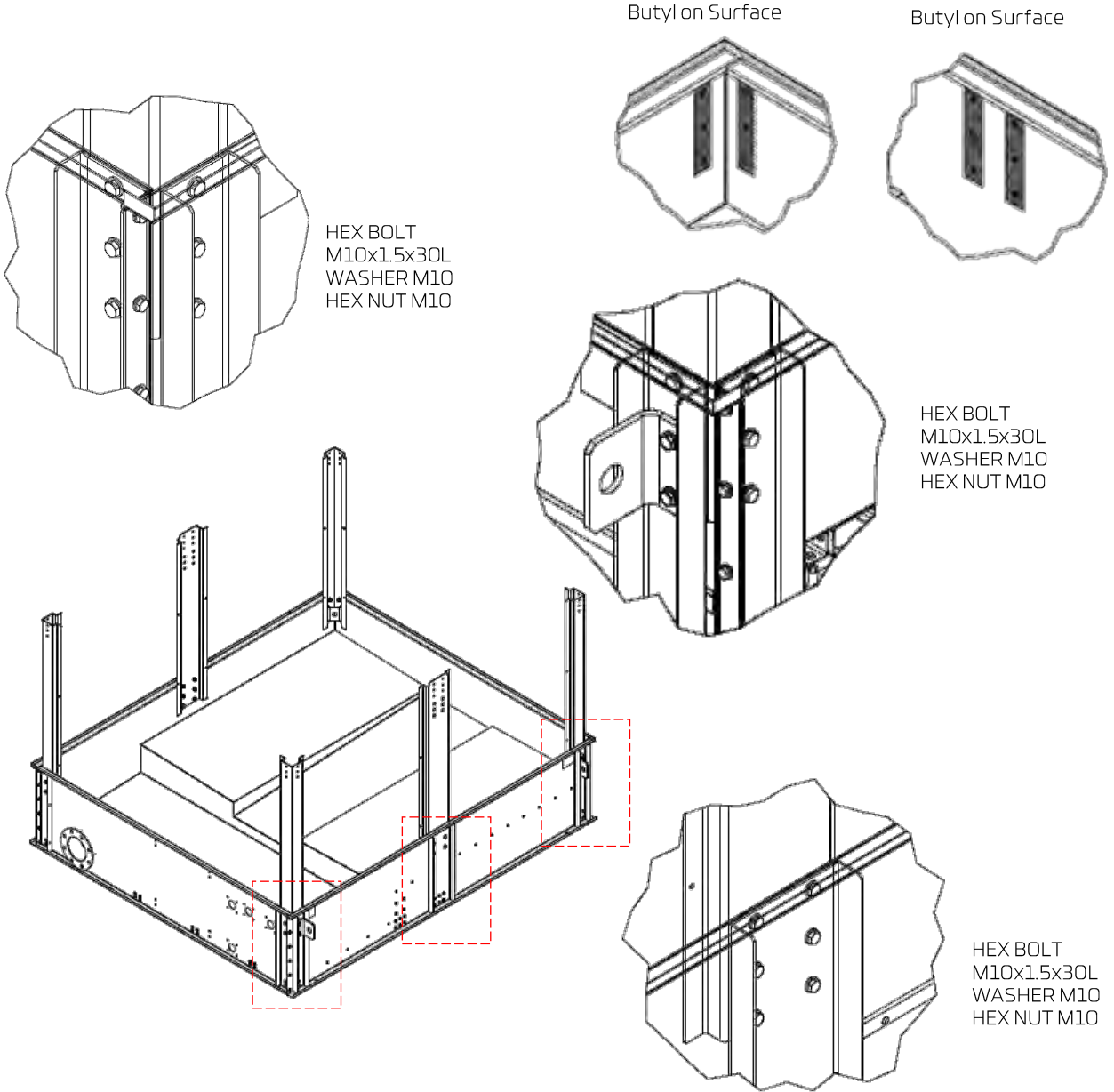
## Step 1: Basin Assembly



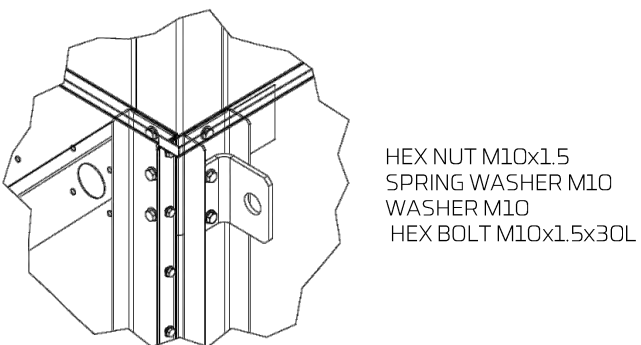
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



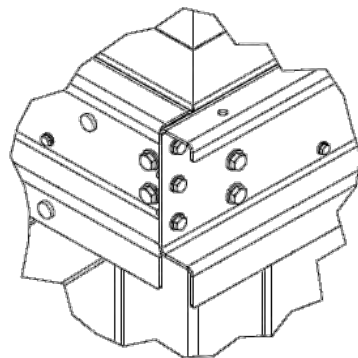
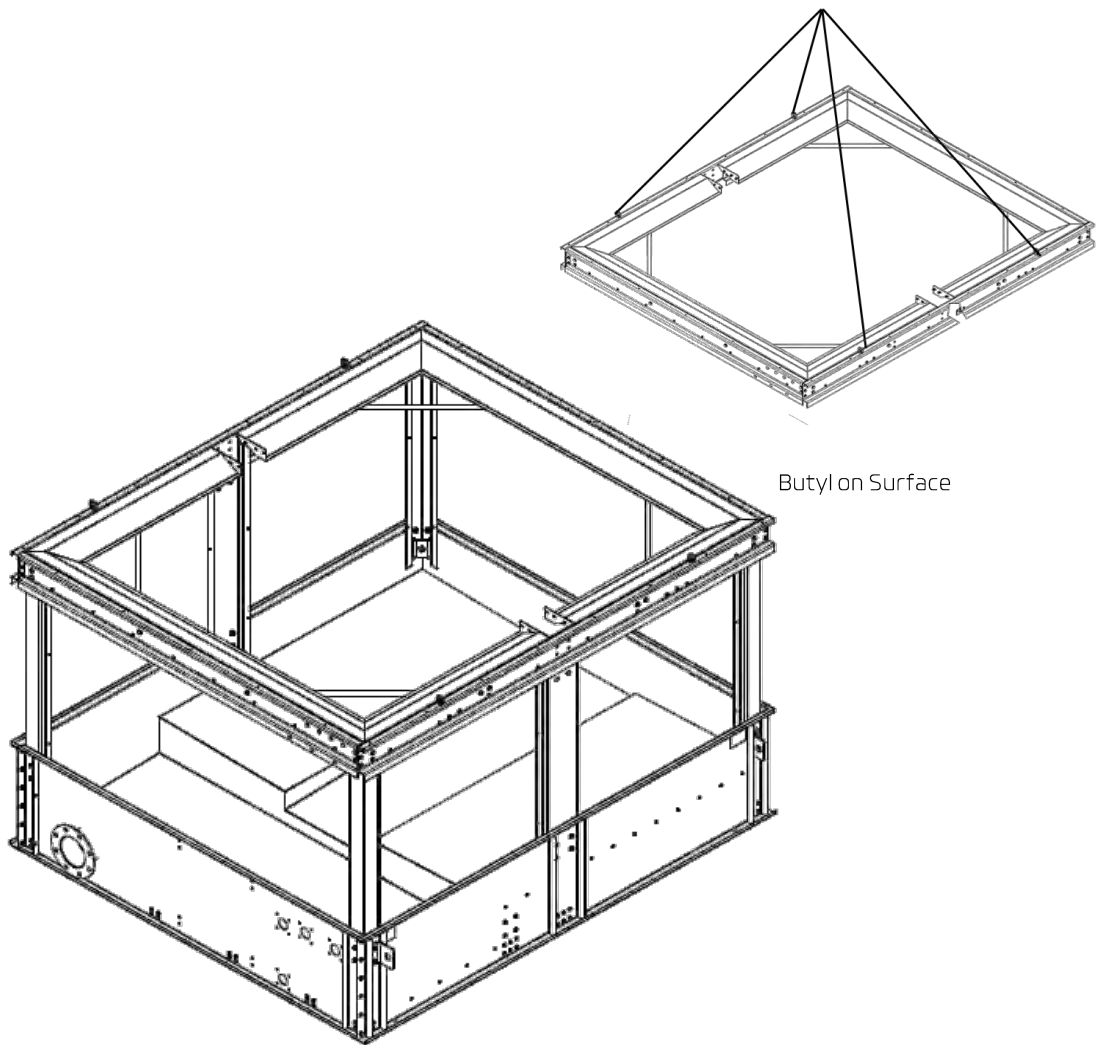
## Step 2 : Support Frame Assembly



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



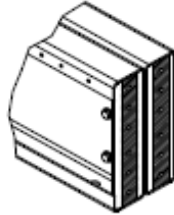
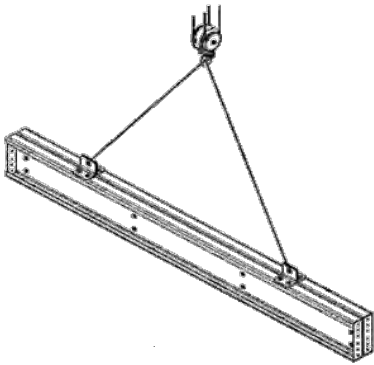
## Step 3: Frame Assembly



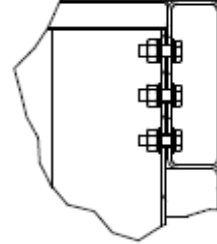
HEX BOLT  
M10x1.5x30L  
HEX NUT M10

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

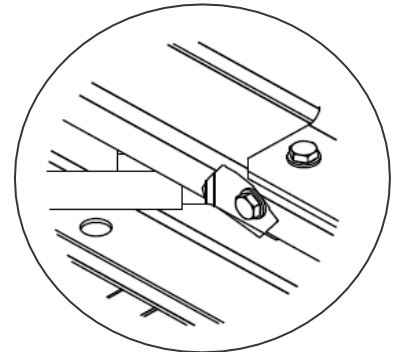
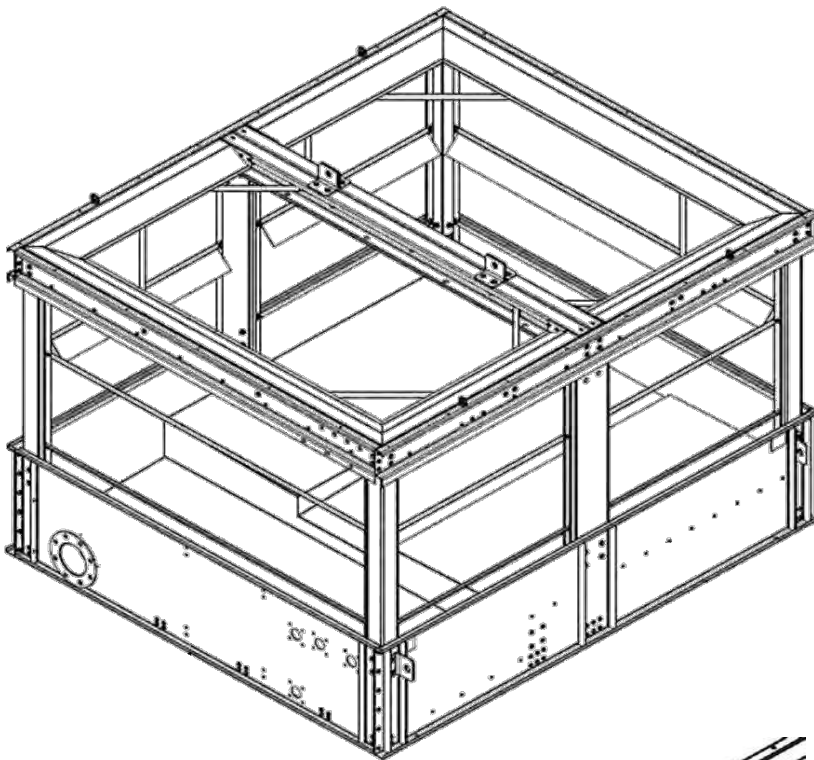
## Step 3: Frame Assembly



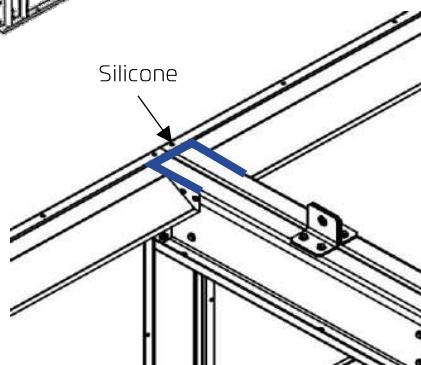
Butyl on Surface



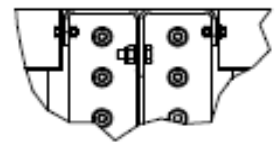
- HEX BOLT  
M10x1.5x30L
- HEX NUT M10
- WASHER M10
- SPRING WASHER  
M10



- HEX BOLT  
M10x1.5x40L
- HEX NUT M10
- WASHER M10
- SPRING WASHER  
M10



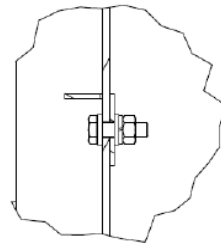
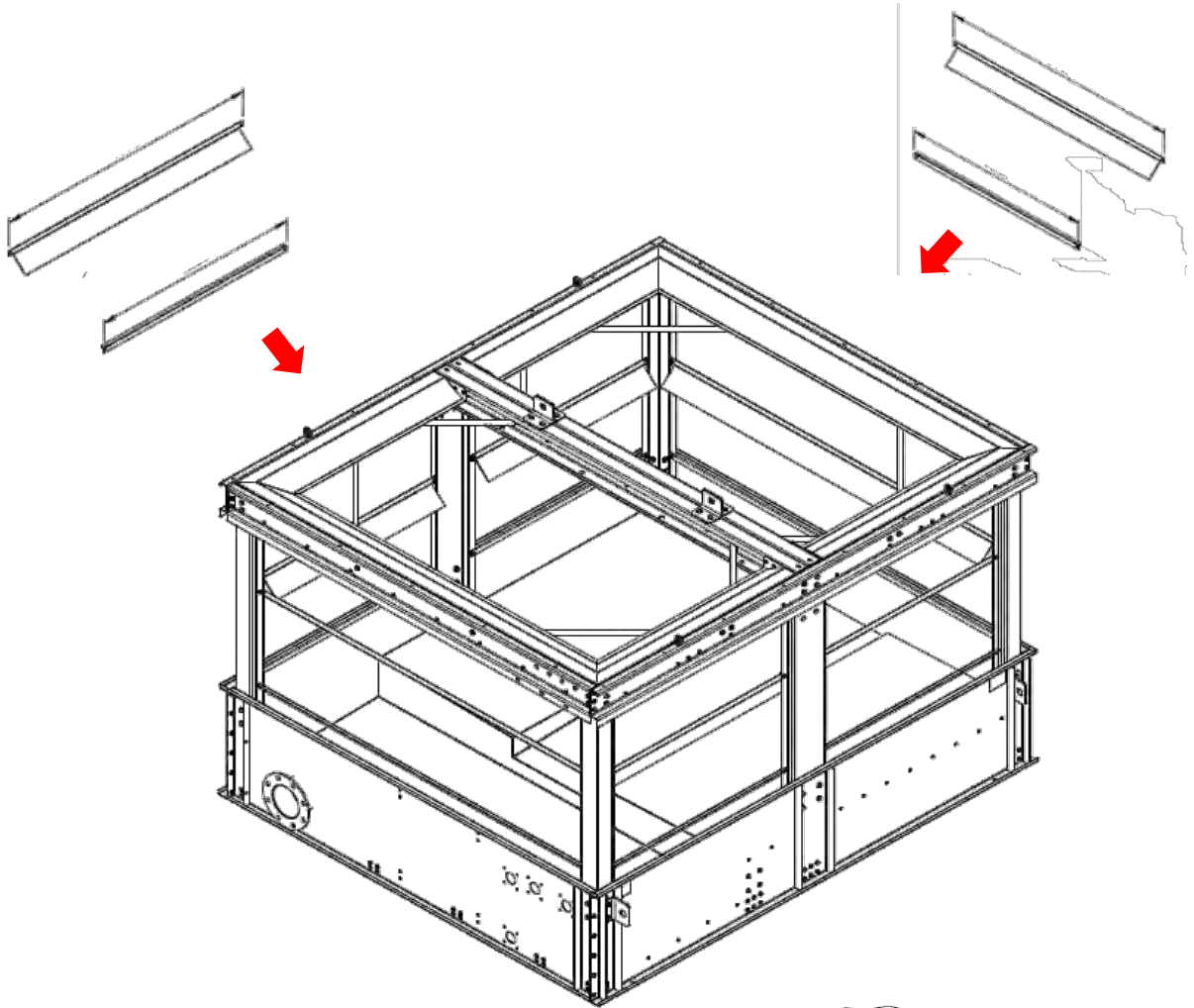
Silicone



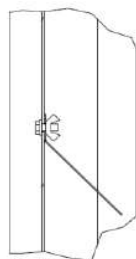
- HEX BOLT  
M6x1.25x20L
- HEX LOCK NUT  
M6x1.25
- WASHER M6
- SPRING WASHER  
M6

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

## Step 5: Water Deflect Assembly



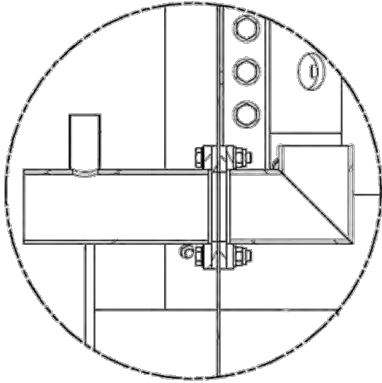
HEX BOLT  
M6x1.25x20L  
HEX LOCK NUT  
M6x1.25  
WASHER M6  
SPRING WASHER  
M6



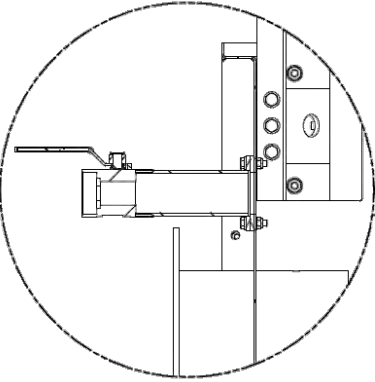
HEX BOLT  
M8x1.25x20L  
WING NUT M8  
WASHER M8

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

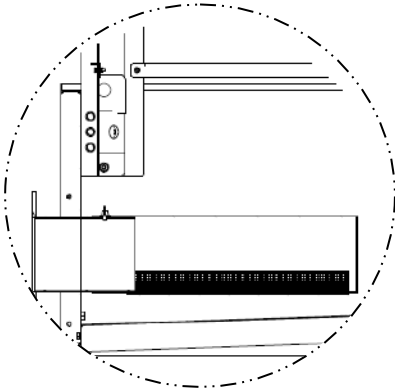
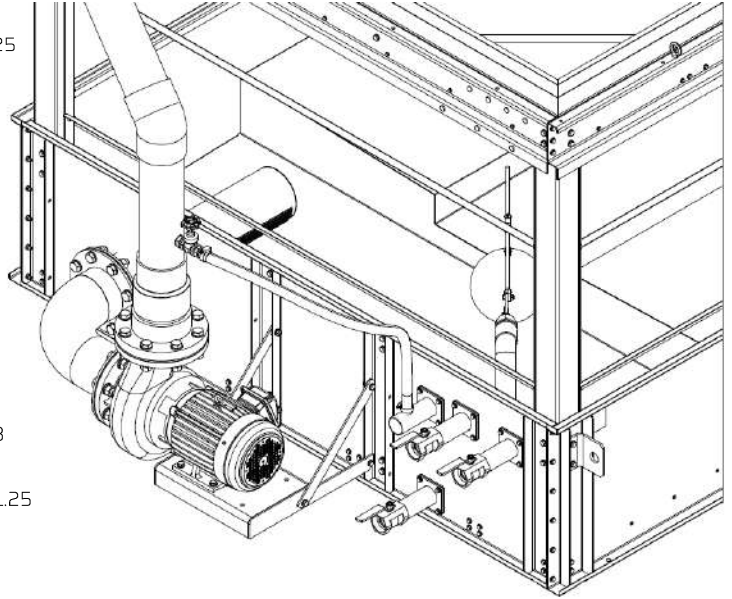
## Step 6 : Piping and Valve Assembly



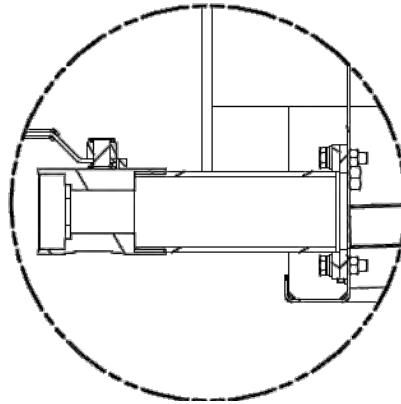
PIPE OVER FLOW  
BOLT M8x1.25x40L  
NR GASKET  
WASHER FOR M8  
HEX.LOCK NUT M8X1.25



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



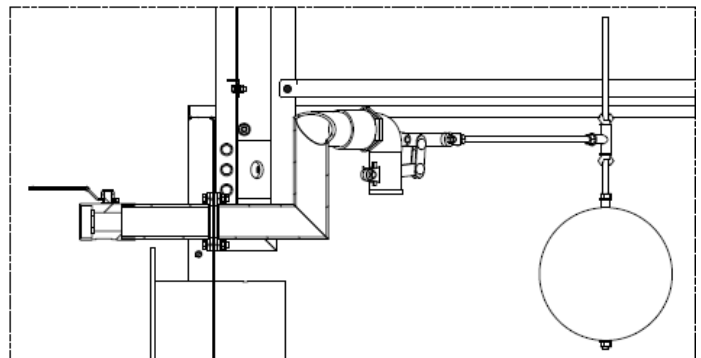
PIPE WITH STRAINER  
WING SCREW - M8 x 12  
WASHER



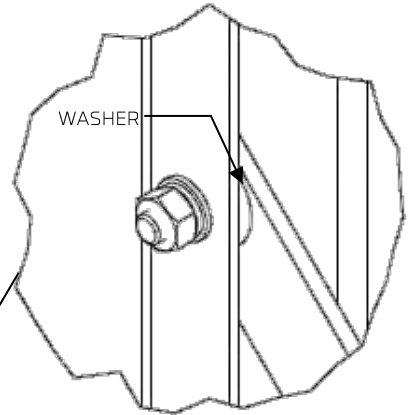
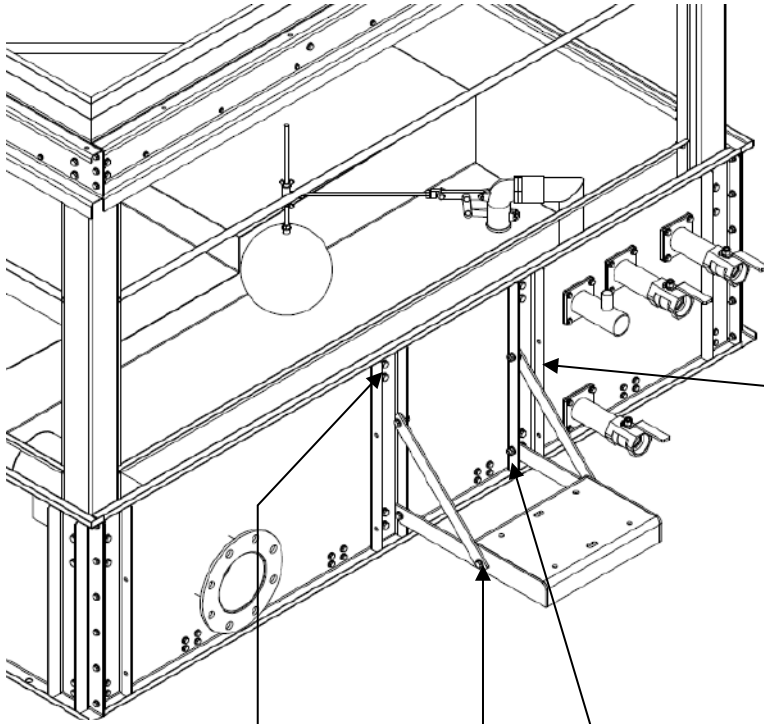
BALL VALVE  
DRAIN WATER PIPE  
BOLT M8x1.25x30L  
SPRING WASHER M8  
WASHER FOR M8  
NR GASKET  
HEX.LOCK NUT M8X1.25

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

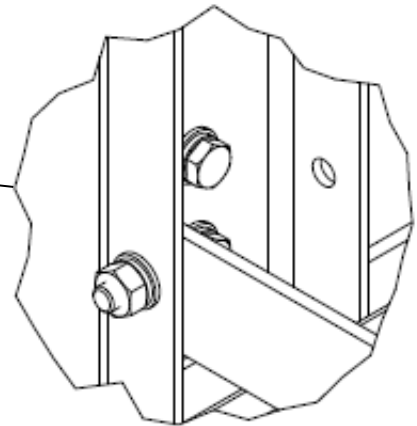


## Step 7: Water Pump Base Assembly

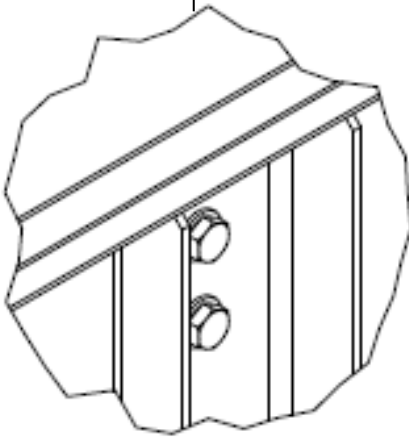


WASHER

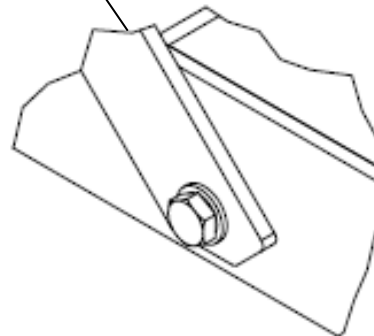
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



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

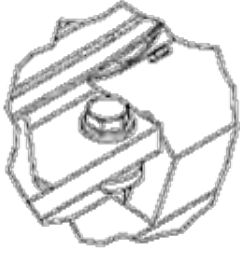


HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5

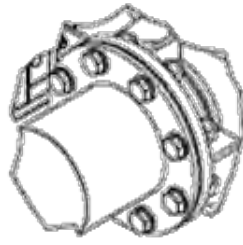
### TIGHTENING TORQUE (A2-70)

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

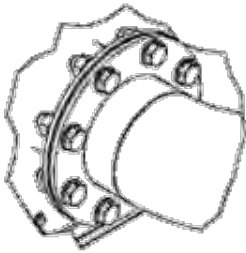
## Step 8: Water Pump pipe Assembly



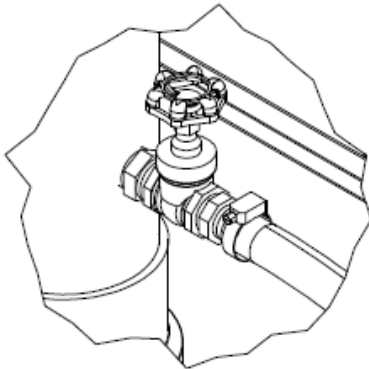
HEX NUT M12x1.75  
 SPRING WASHER FOR M12  
 WASHER FOR M12  
 HEX BOLT M12x1.75x50L



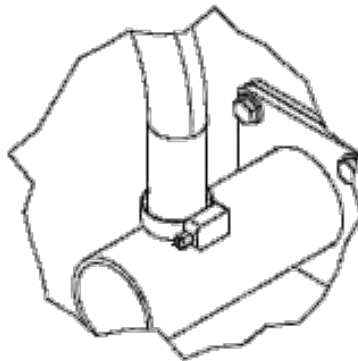
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x70L



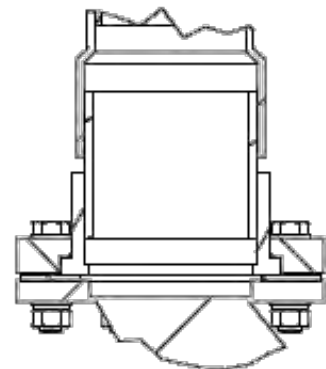
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x60L



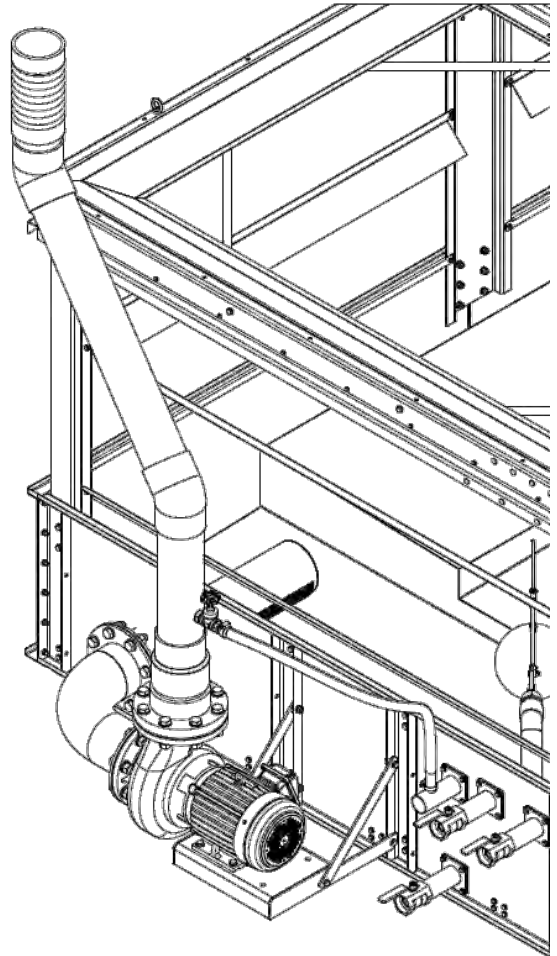
HOSE CLAMP 1"  
 TEXTILE HOSE 1"



HOSE CLAMP 1"  
 TEXTILE HOSE 1"

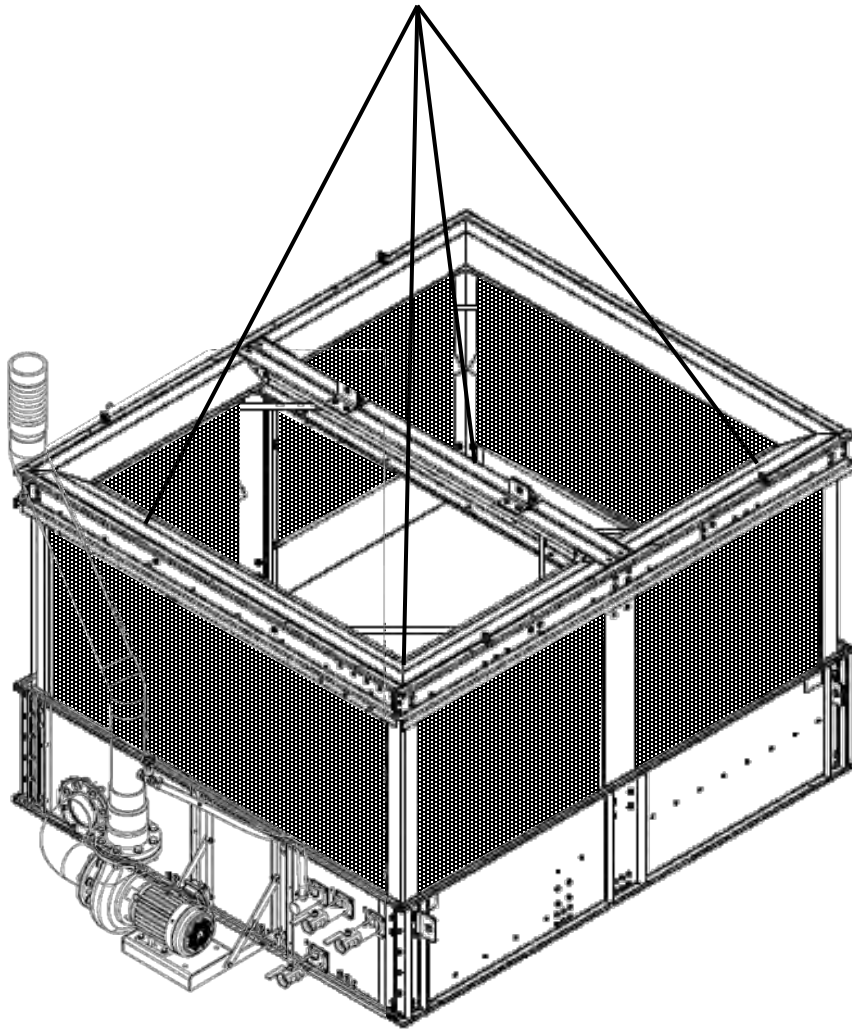


HEX BOLT M20x90L  
 HEX LOCK NUT M20  
 WASHER FOR M20  
 SPRING WASHER FOR M20



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

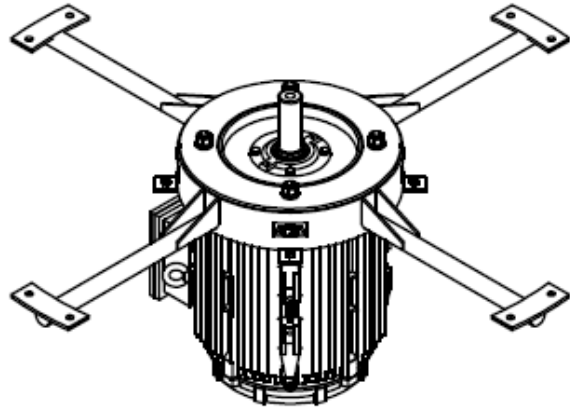
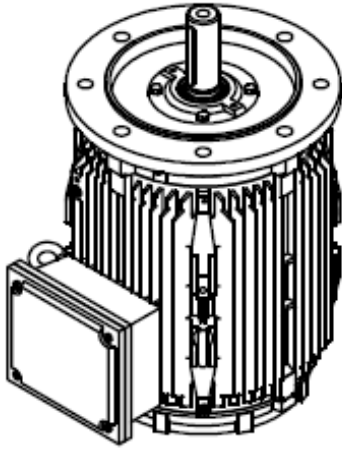
## Step 9: Move Assembled Basin to Position



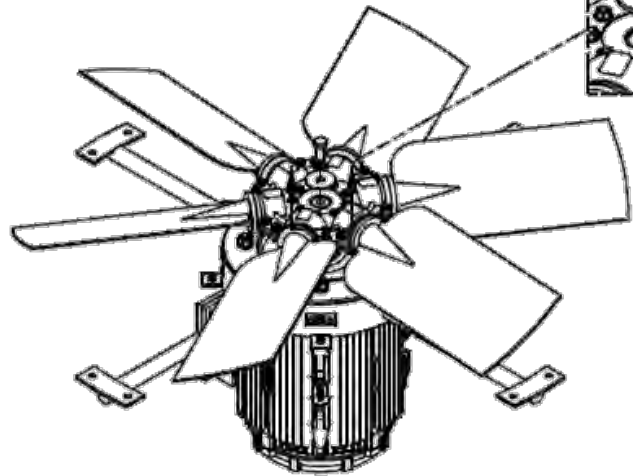
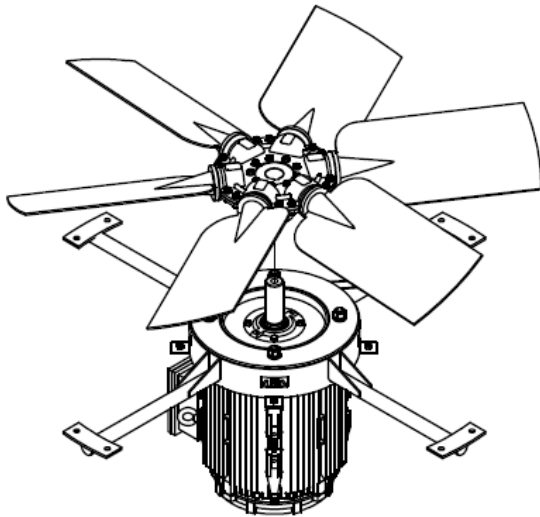
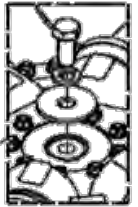
LOUVER

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

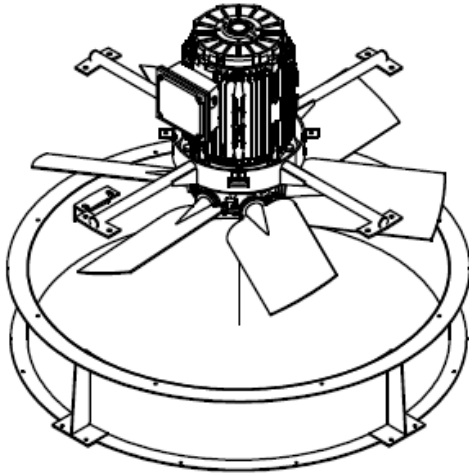




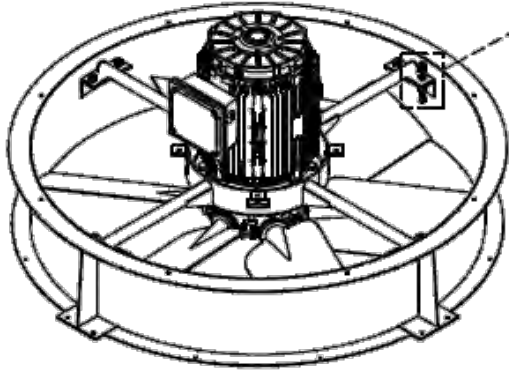
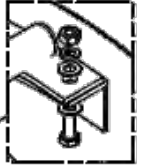
HEX NUT M16  
 SPRING WASHER FOR M16  
 WASHER FOR M16  
 HEX BOLT M16x1.5x60L



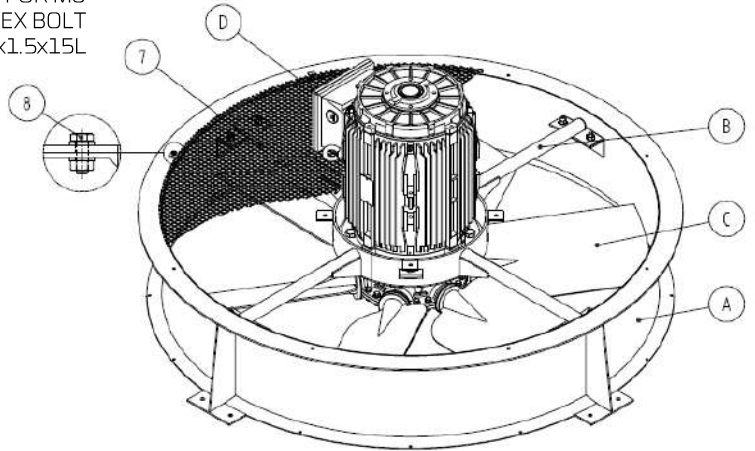
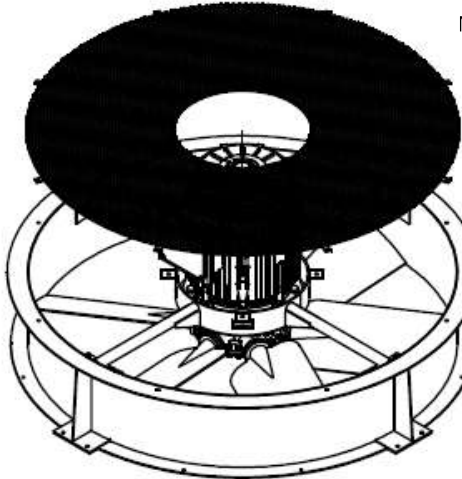
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



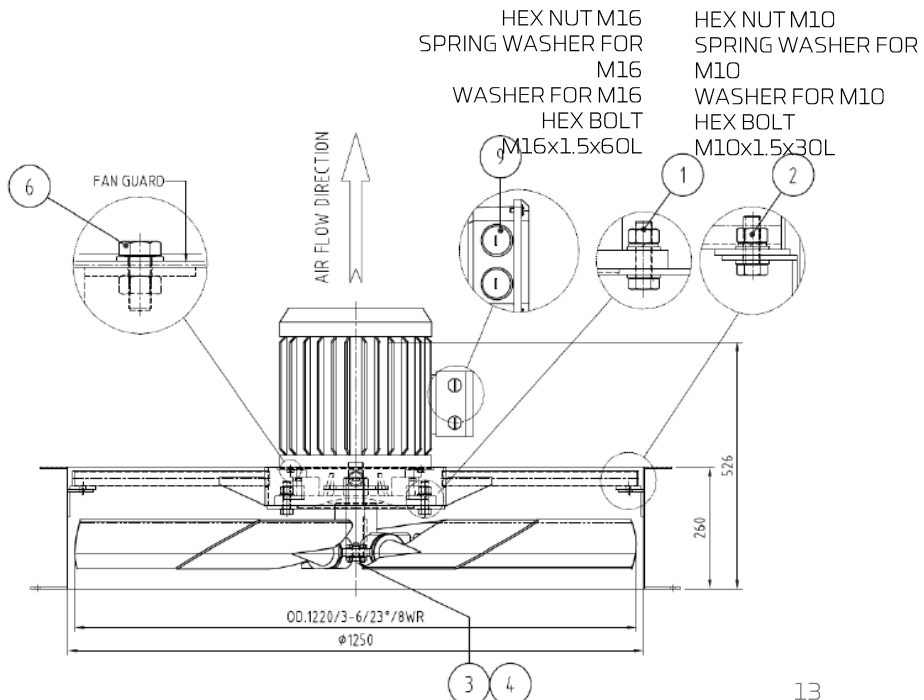
HEX NUT M10  
 SPRING WASHER FOR  
 M10  
 WASHER FOR M10  
 HEX BOLT  
 M10x1.5x30L



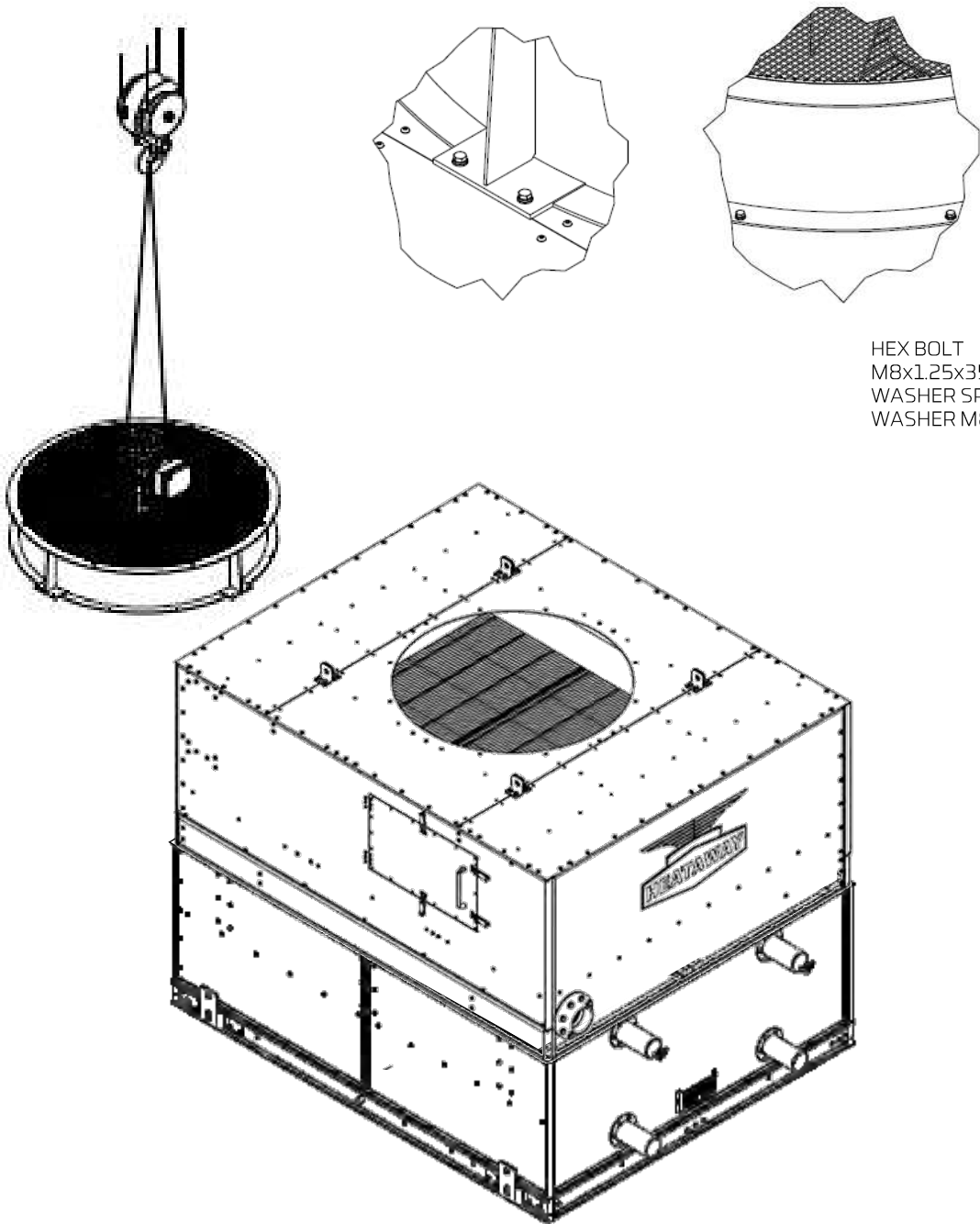
HEX NUT M6  
 WASHER FOR M6  
 HEX BOLT  
 M6x1.5x15L



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



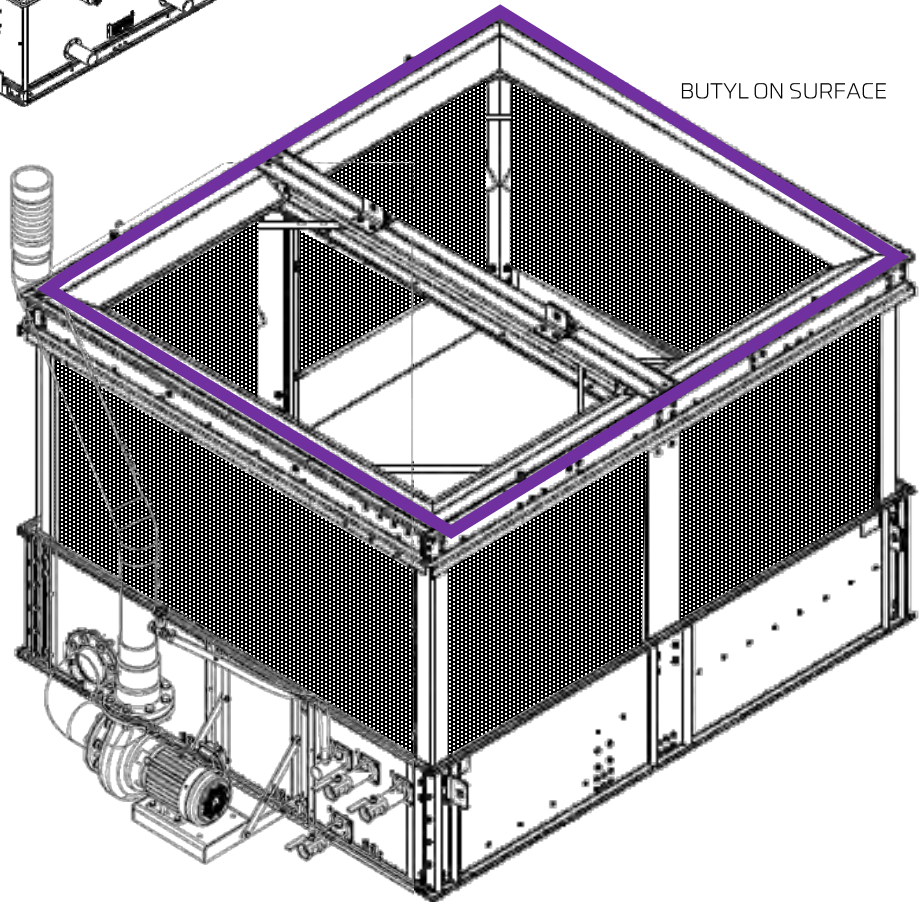
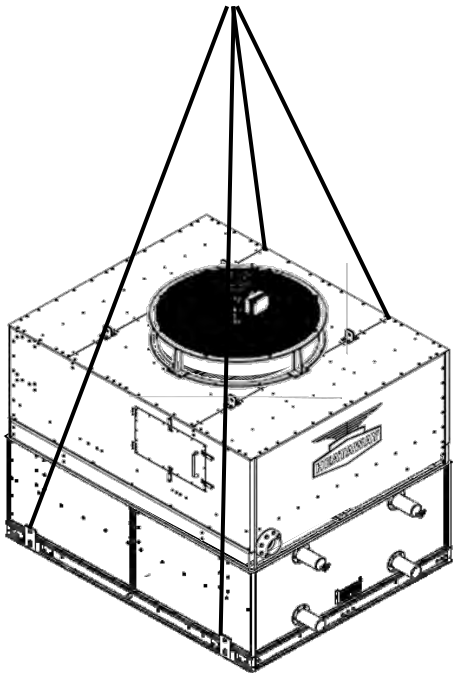
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



HEX BOLT  
 M8x1.25x35L  
 WASHER SPRING M8  
 WASHER M8

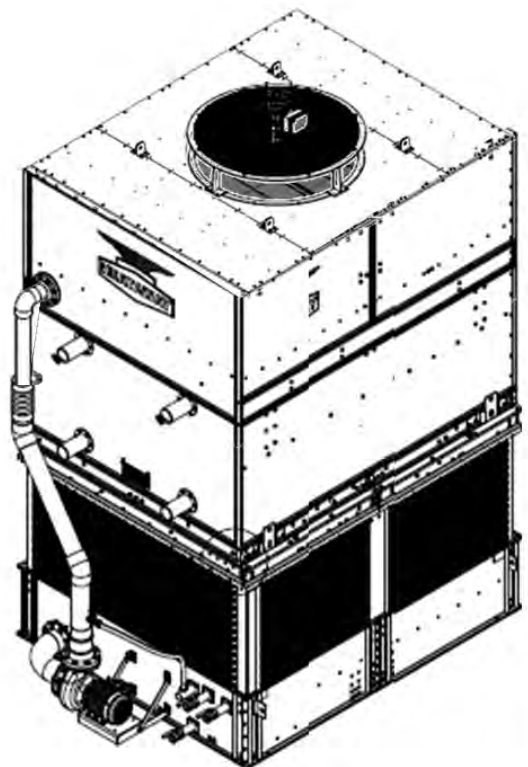
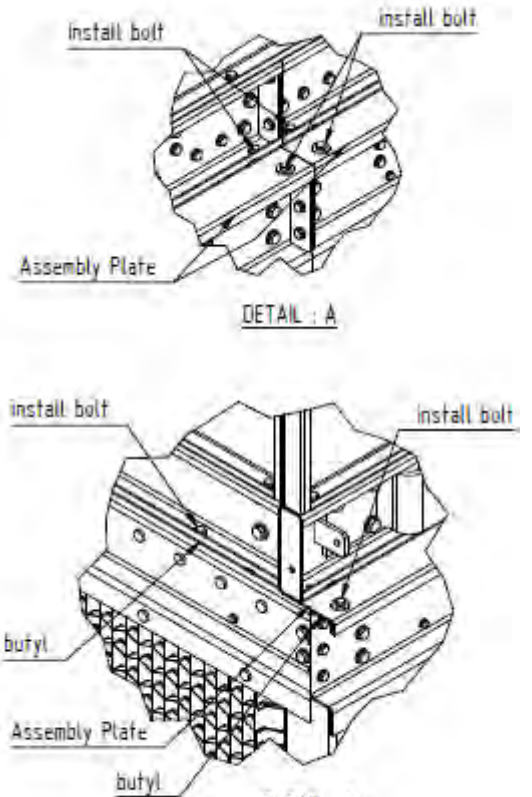
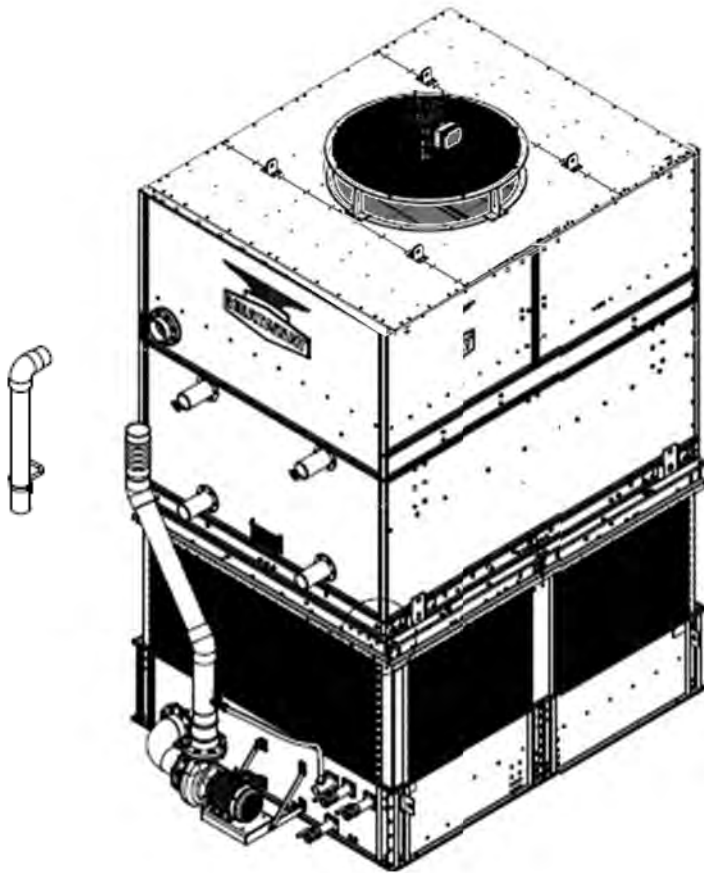
### TIGHTENING TORQUE (A2-70)

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



### 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  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

Footprint

**8' X 12'**

Model

EC9-0930-0812C-L

EC9-1000-0812C-S

EC9-1040-0812C-M

EC9-1150-0812C-L

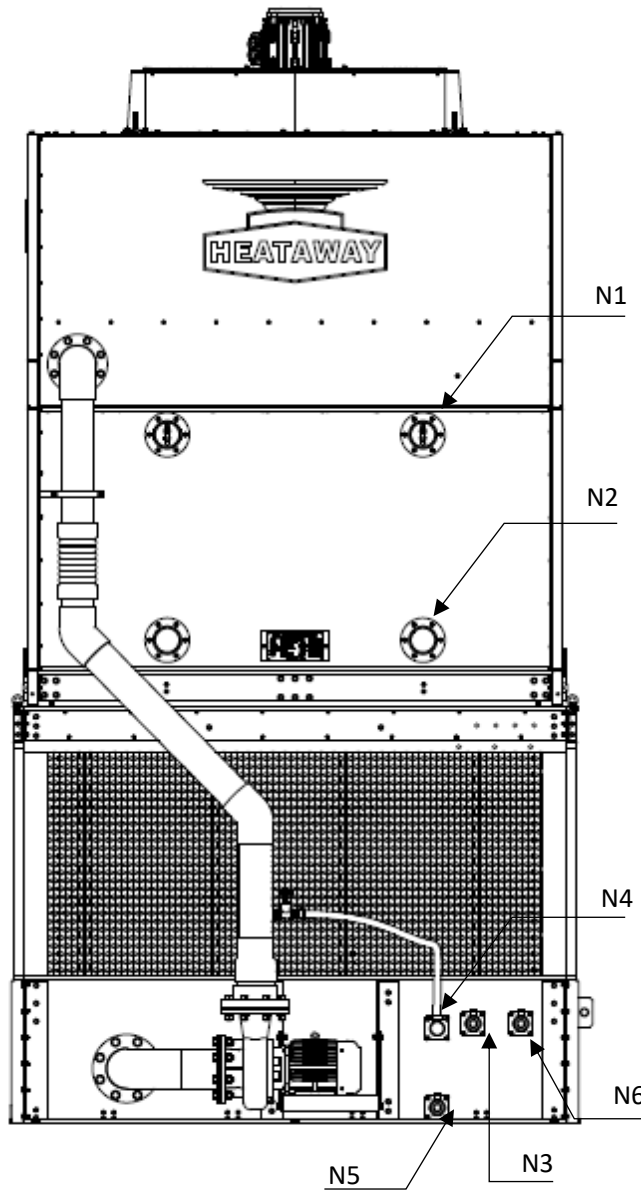
EC9-1190-0812C-M

EC9-1250-0812C-M

EC9-1310-0812C-L

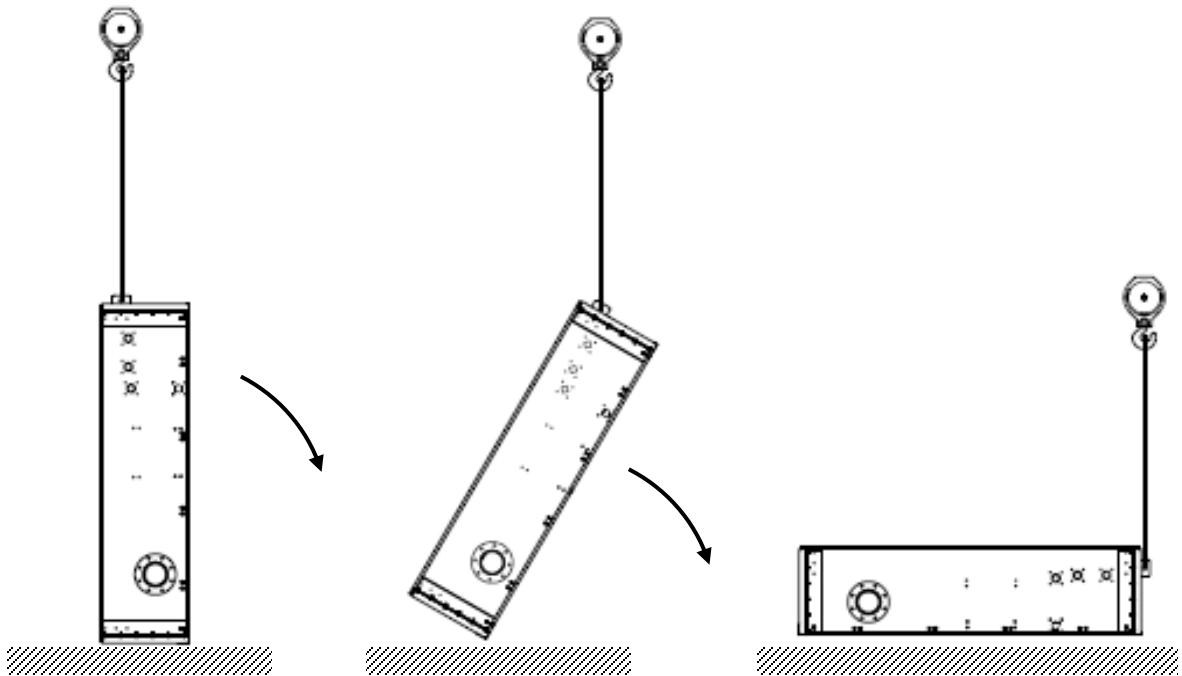
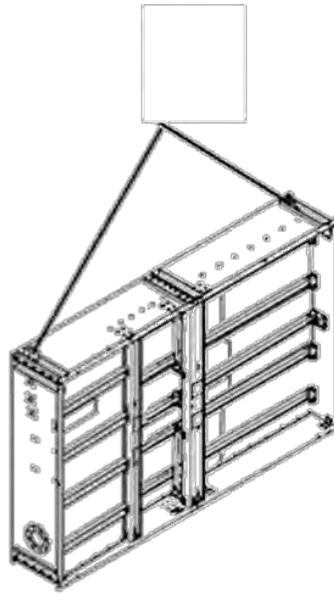
EC9-1360-0812C-L





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

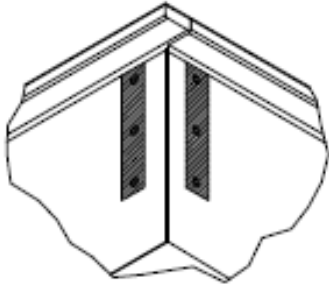
## Step 1: Basin Assembly



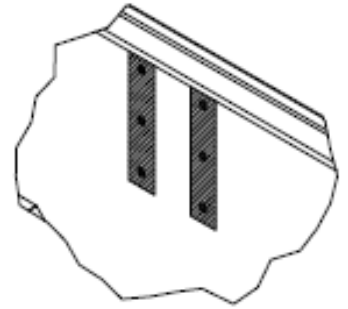
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



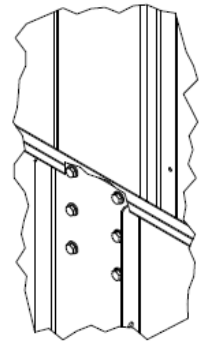
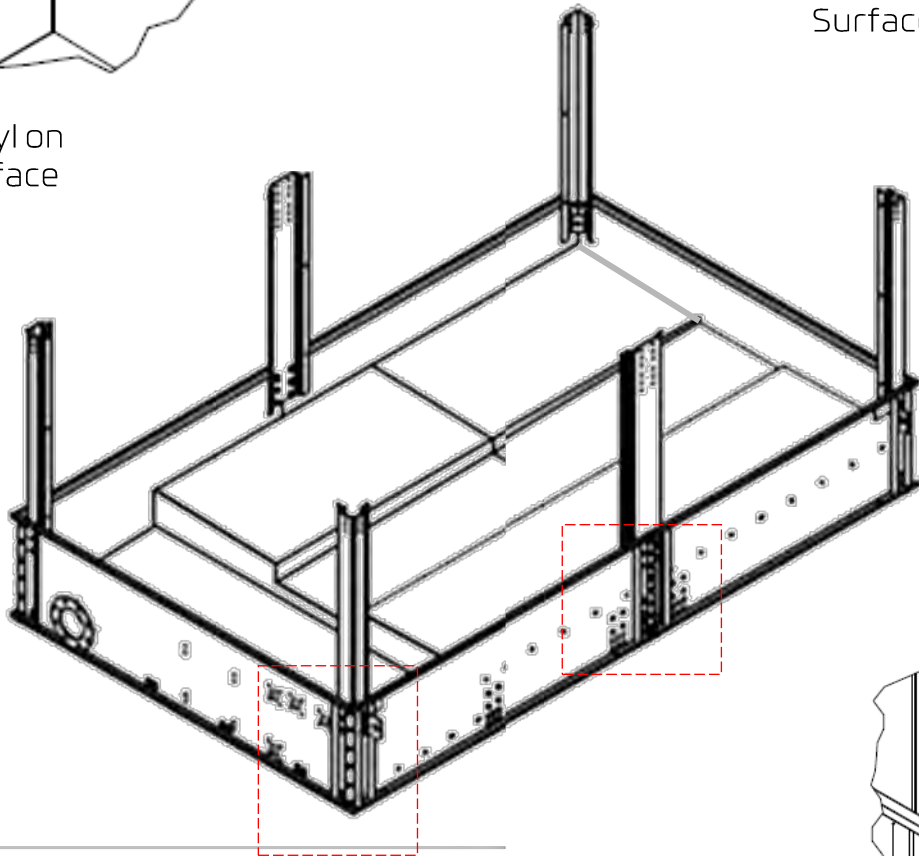
## Step 2 : Support Frame Assembly



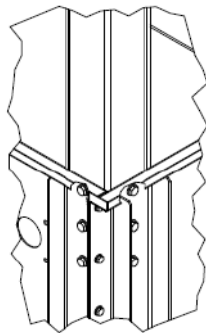
Butyl on Surface



Butyl on Surface



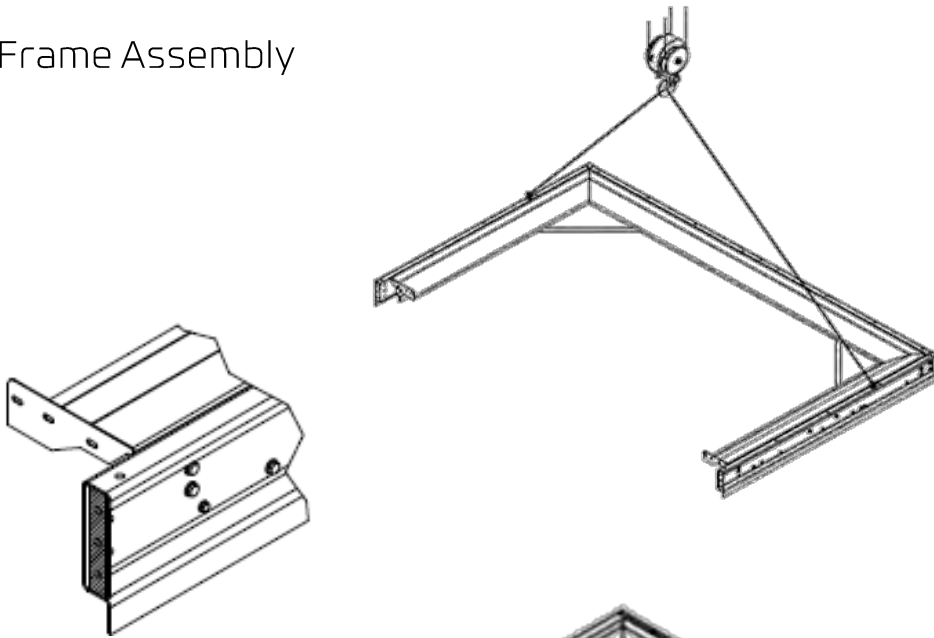
HEX BOLT  
M10x1.5x30L  
WASHER M10  
HEX NUT M10



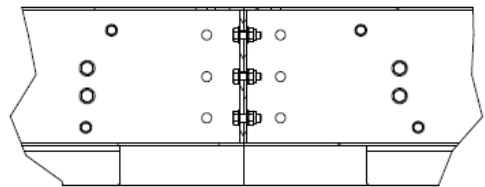
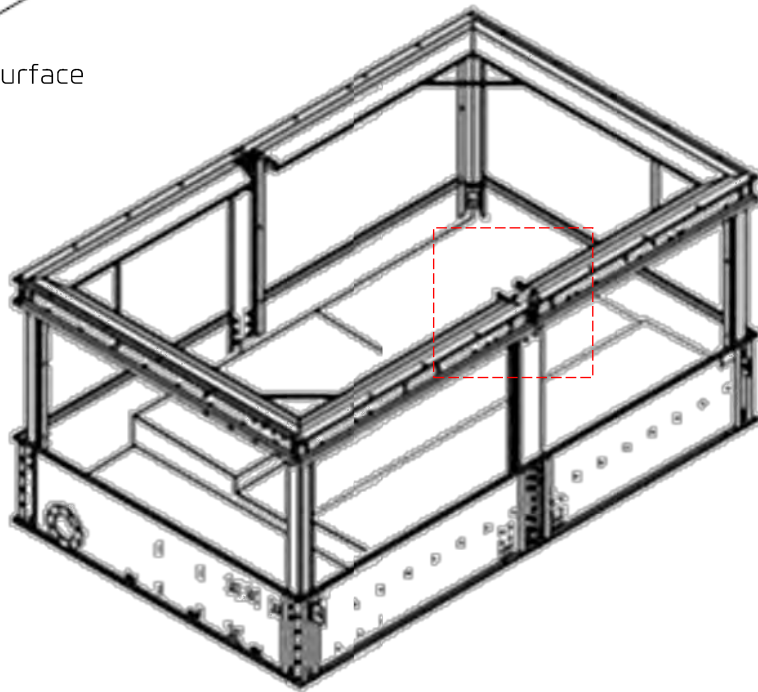
HEX NUT M10x1.5  
SPRING WASHER M10  
WASHER M10  
HEX BOLT M10x1.5x30L

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



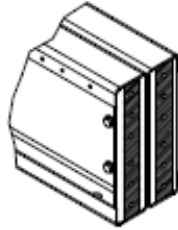
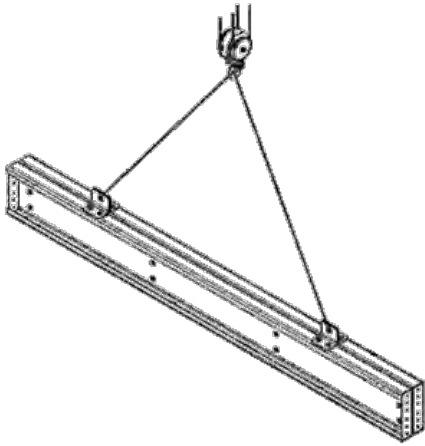
Butyl on Surface



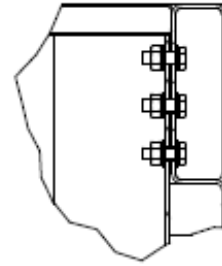
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

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

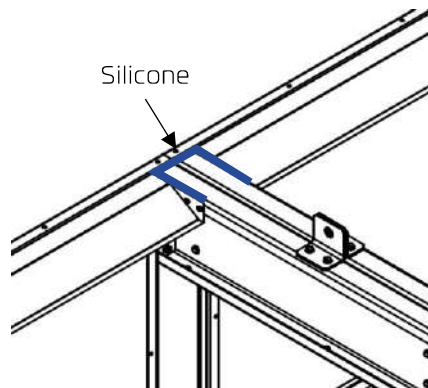
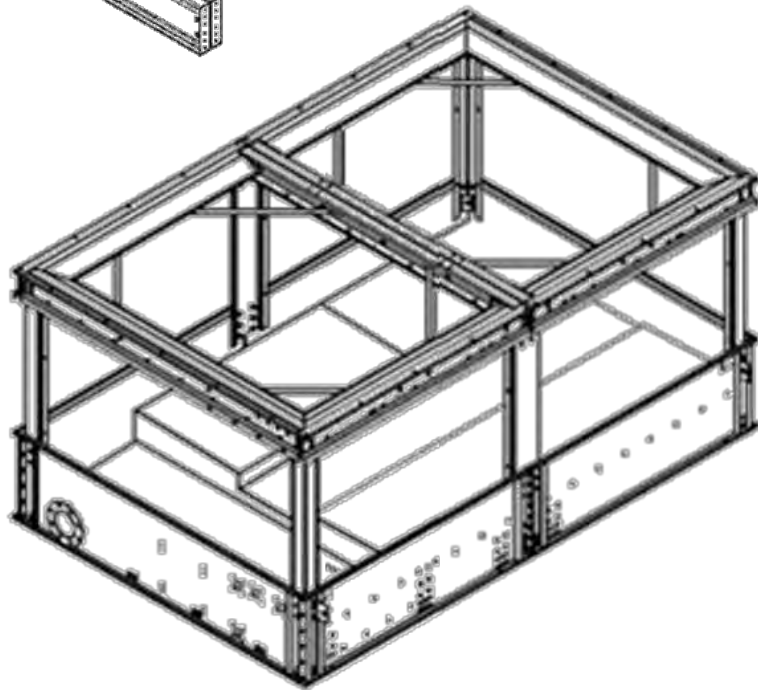
## Step 3: Frame Beam Assembly



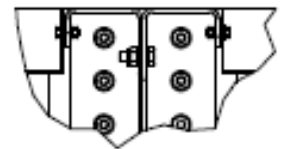
Butyl on Surface



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



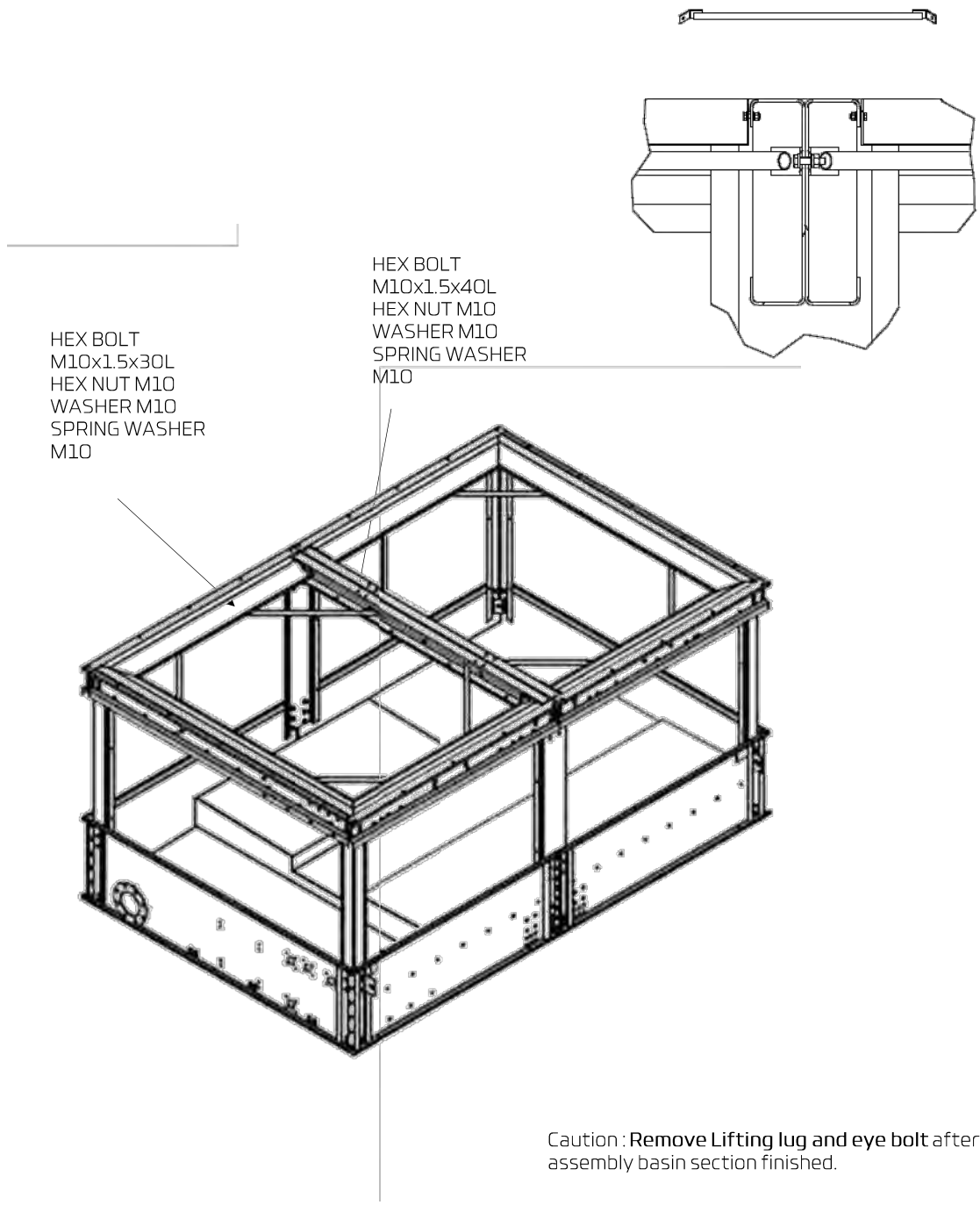
Silicone



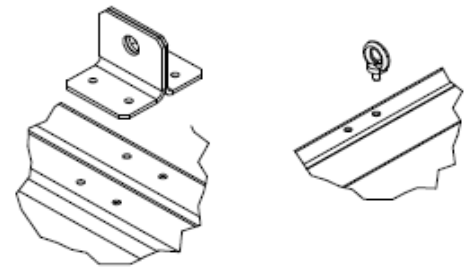
- HEX BOLT  
M6x1.25x20L
- HEX LOCK NUT  
M6x1.25
- WASHER M6
- SPRING WASHER  
M6

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

## Step 4: Support Frame Assembly

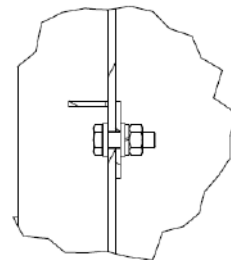
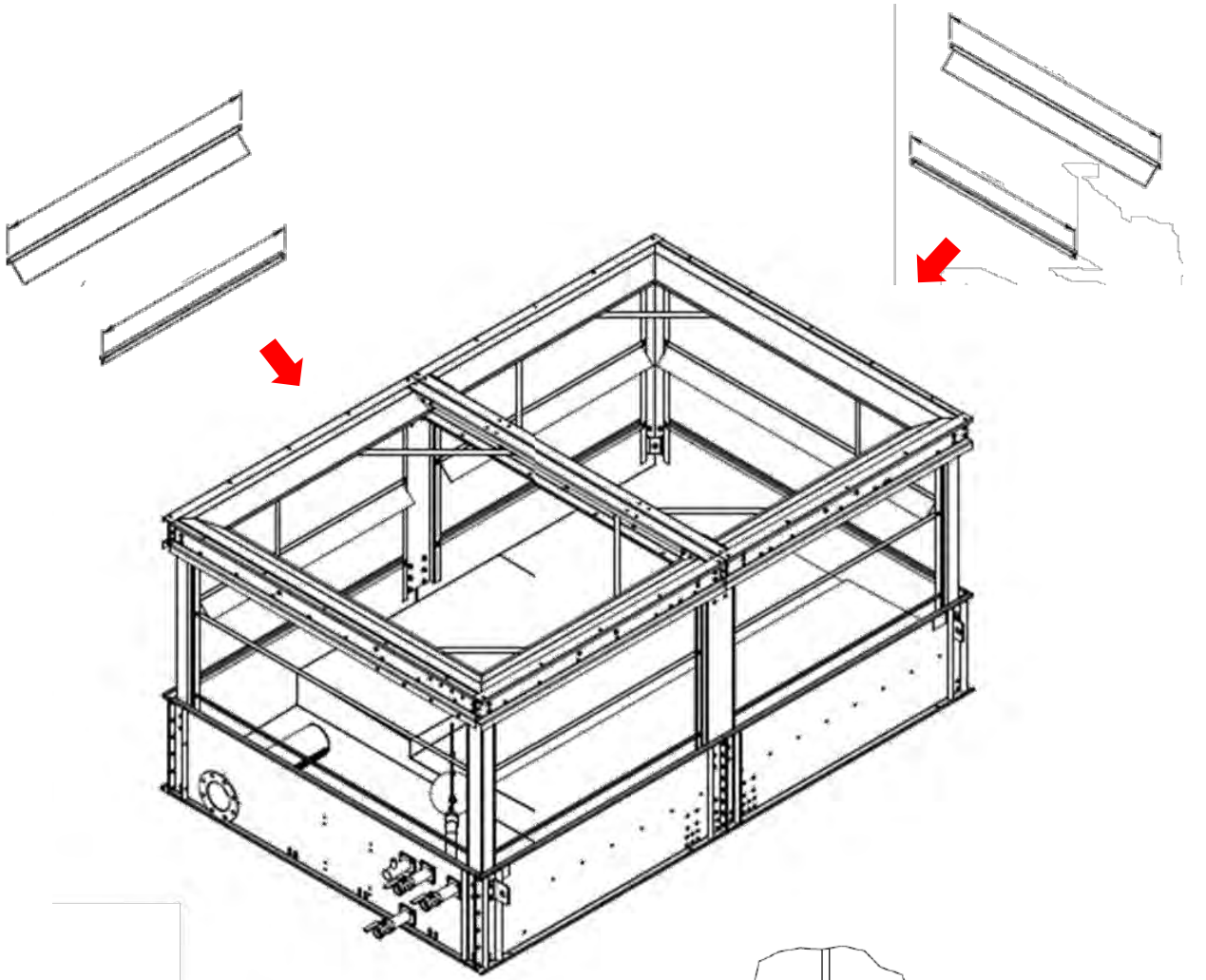


Caution : Remove Lifting lug and eye bolt after assembly basin section finished.

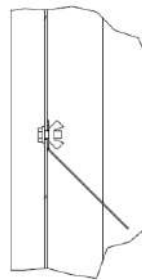


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 5: Water Deflect Assembly



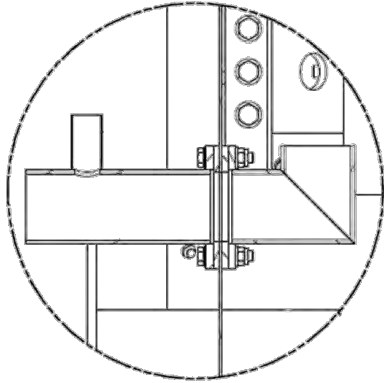
HEX BOLT  
M6x1.25x20L  
HEX LOCK NUT  
M6x1.25  
WASHER M6  
SPRING WASHER M6



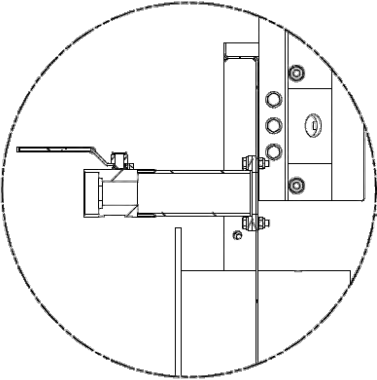
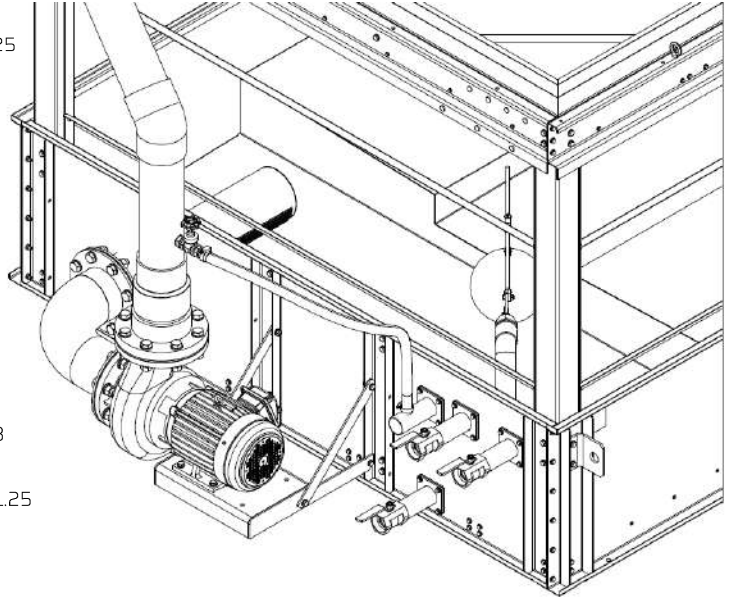
HEX BOLT  
M8x1.25x20L  
WING NUT M8  
WASHER M8

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

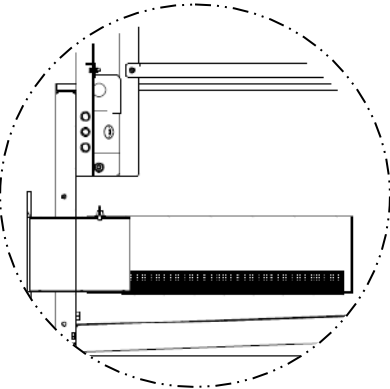
## Step 6 : Piping and Valve Assembly



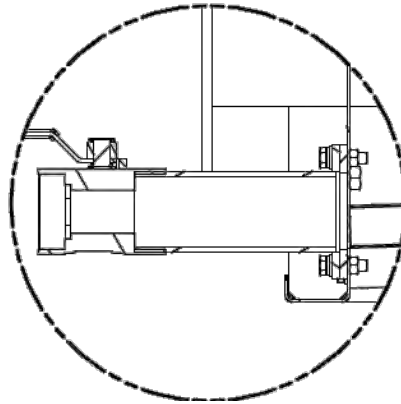
PIPE OVER FLOW  
BOLT M8x1.25x40L  
NR GASKET  
WASHER FOR M8  
HEX.LOCK NUT M8X1.25



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



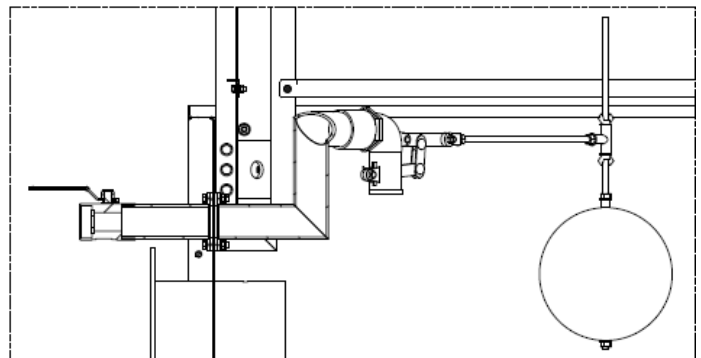
PIPE WITH STRAINER  
WING SCREW - M8 x 12  
WASHER



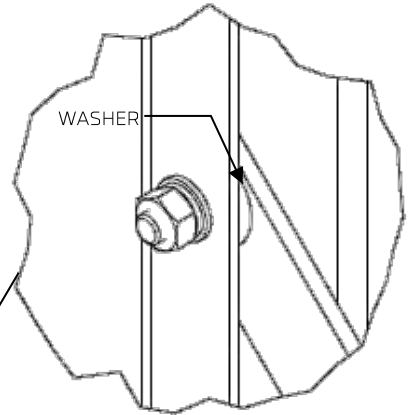
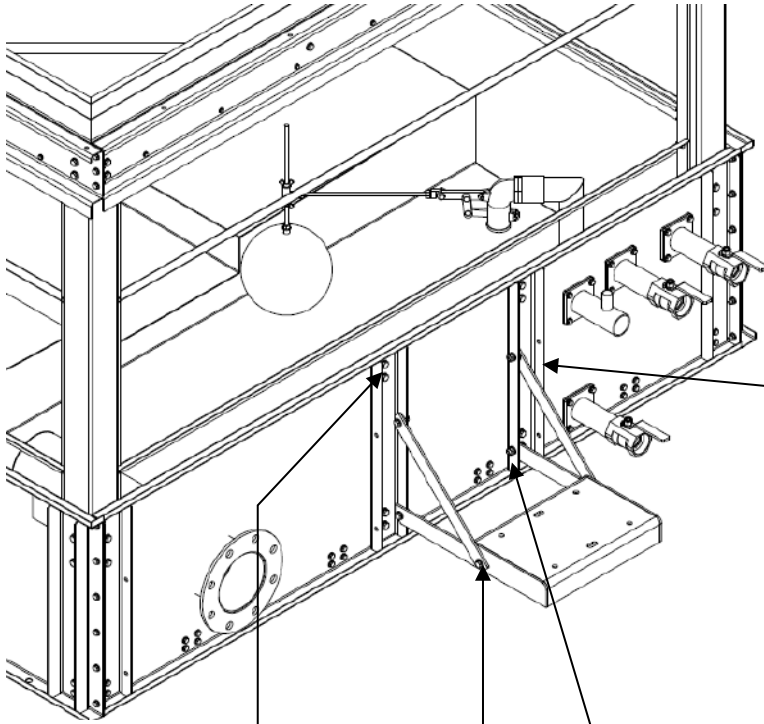
BALL VALVE  
DRAIN WATER PIPE  
BOLT M8x1.25x30L  
SPRING WASHER M8  
WASHER FOR M8  
NR GASKET  
HEX.LOCK NUT M8X1.25

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

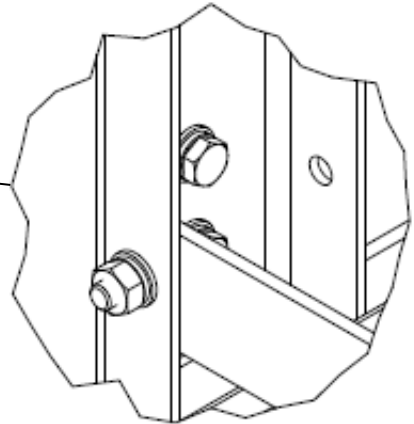


## Step 7: Water Pump Base Assembly

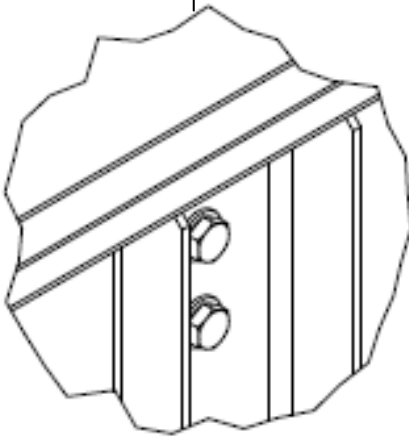


WASHER

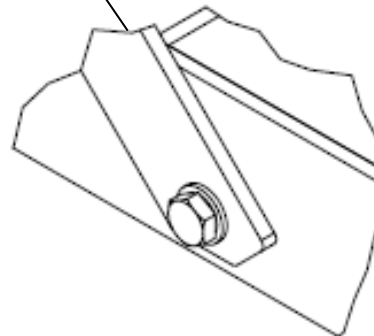
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



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



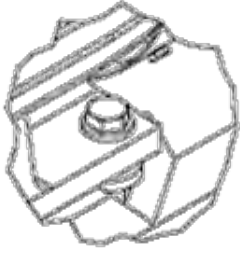
HEX.BOLT M10x1.5x25L  
WASHER FOR M10  
HEX.NUT LOCK M10x1.5



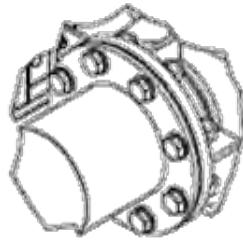
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5

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

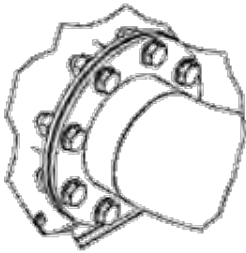
## Step 8: Water Pump pipe Assembly



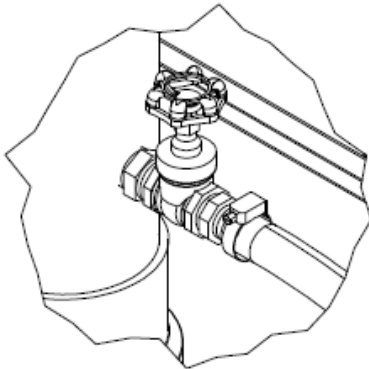
HEX NUT M12x1.75  
 SPRING WASHER FOR M12  
 WASHER FOR M12  
 HEX BOLT M12x1.75x50L



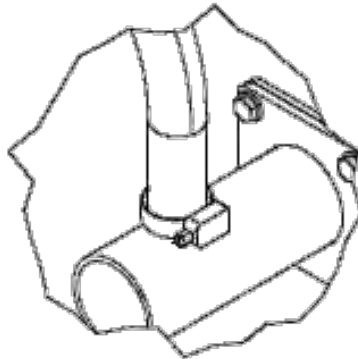
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x70L



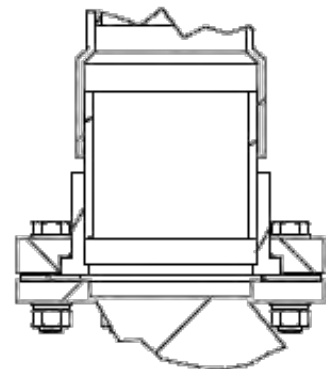
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x60L



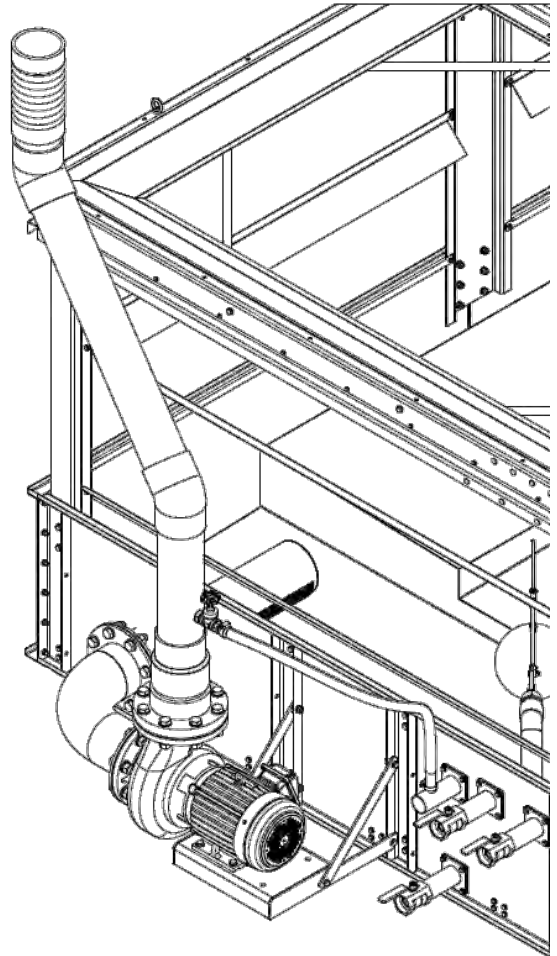
HOSE CLAMP 1"  
 TEXTILE HOSE 1"



HOSE CLAMP 1"  
 TEXTILE HOSE 1"



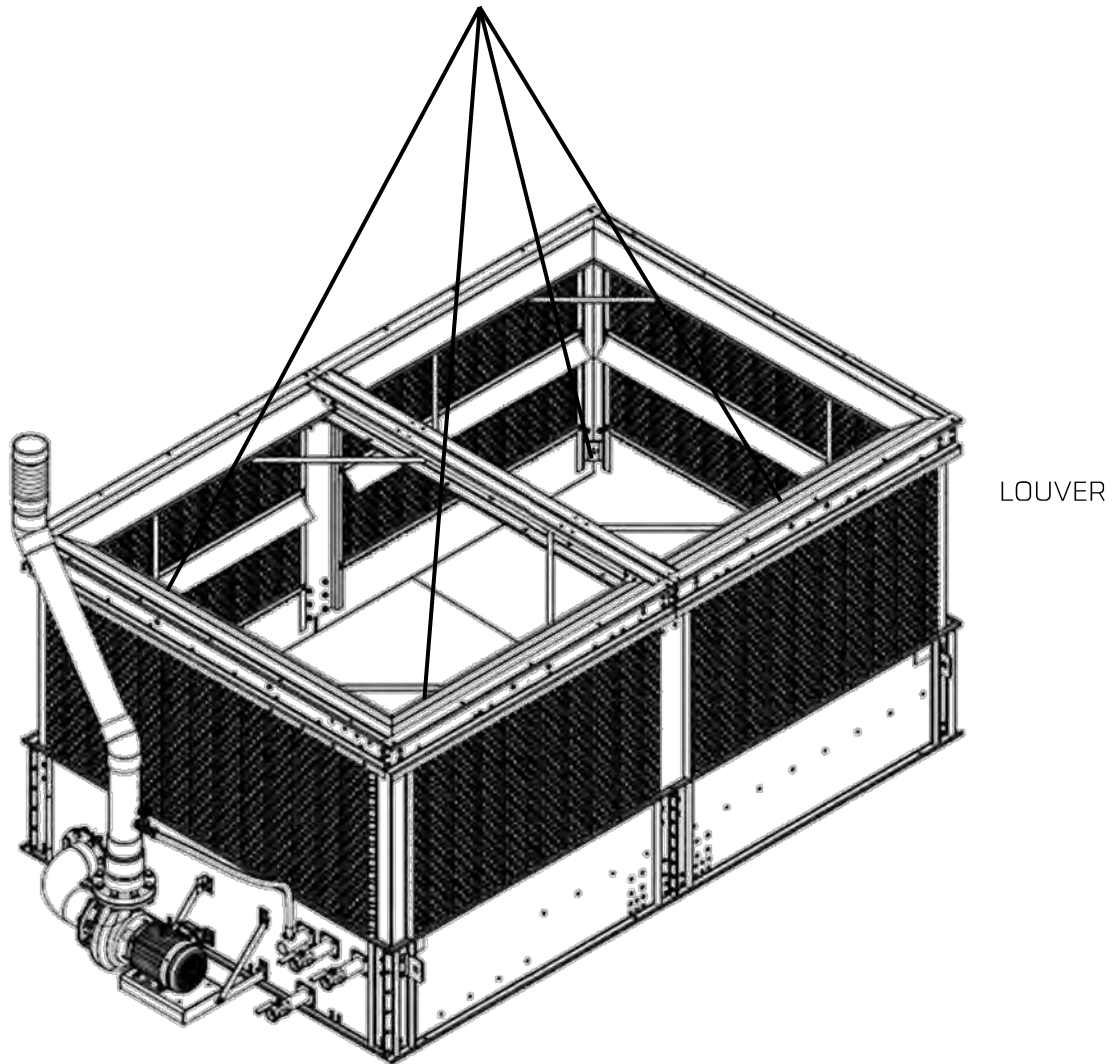
HEX BOLT M20x90L  
 HEX LOCK NUT M20  
 WASHER FOR M20  
 SPRING WASHER FOR M20



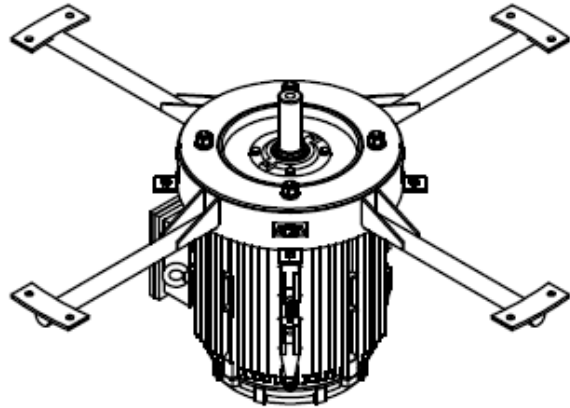
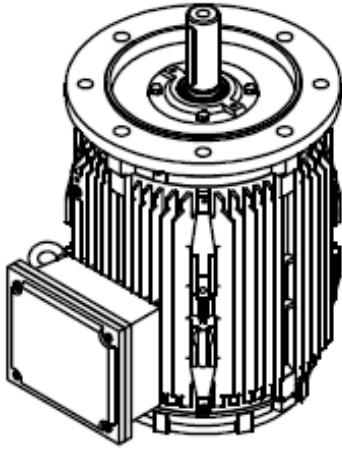
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



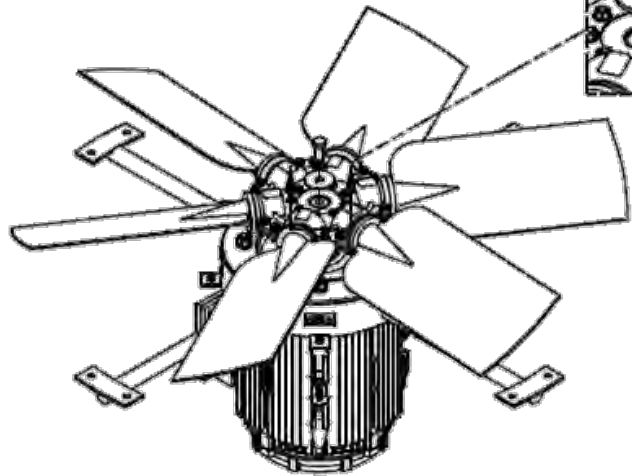
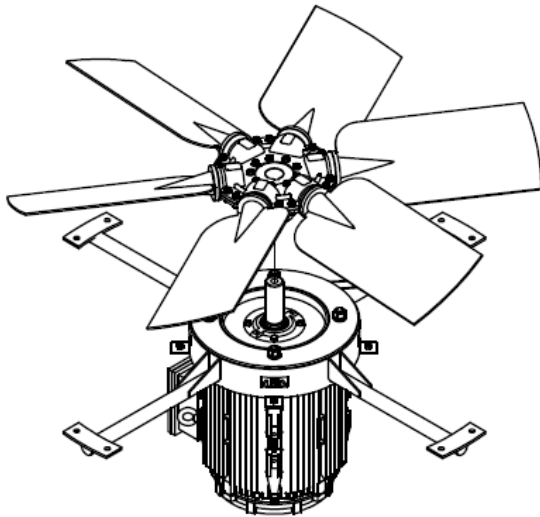
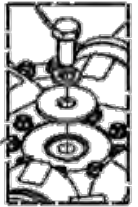
## Step 9: Move Assembled Basin to Position



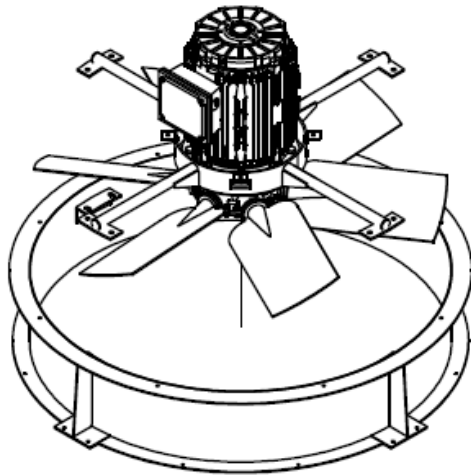
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



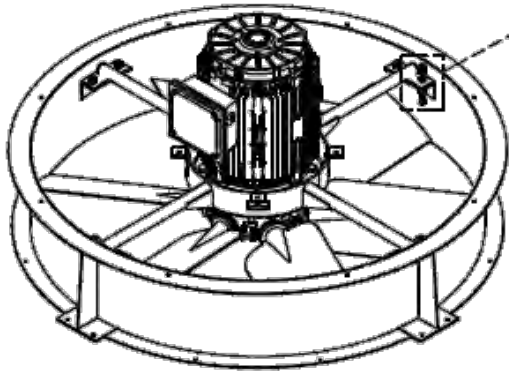
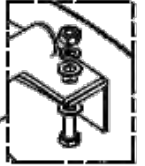
HEX NUT M16  
 SPRING WASHER FOR M16  
 WASHER FOR M16  
 HEX BOLT M16x1.5x60L



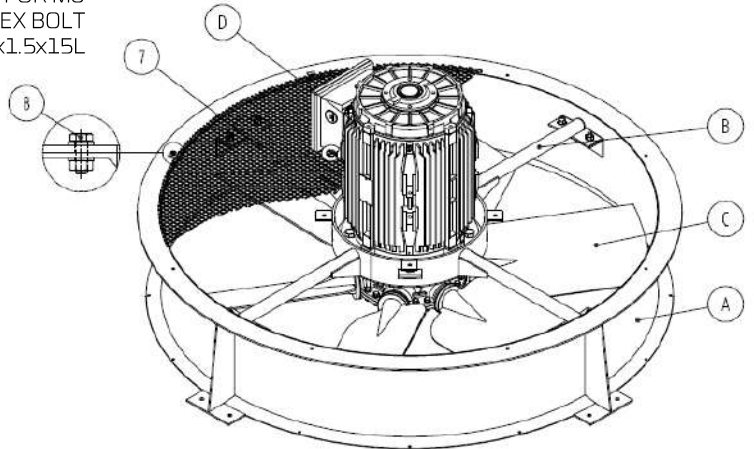
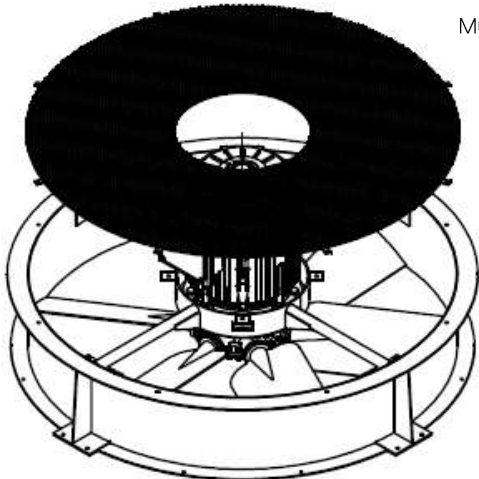
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



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



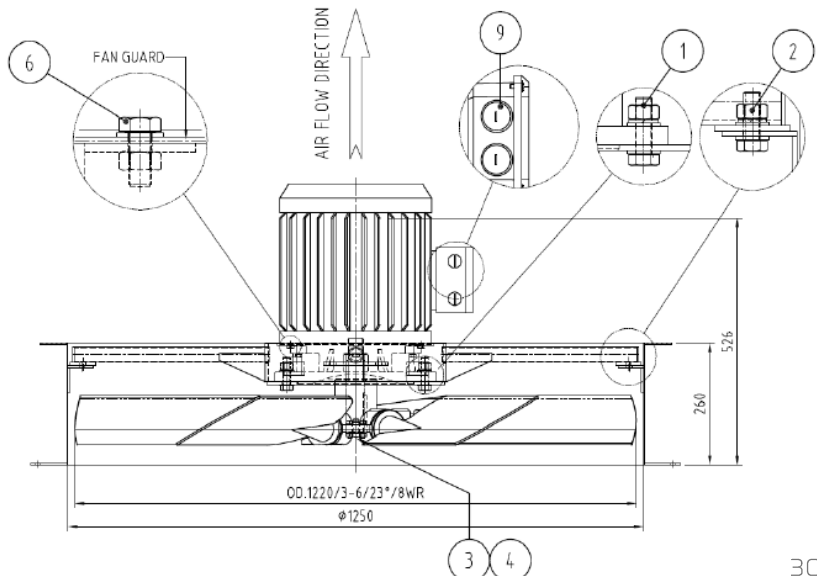
HEX NUT M6  
 WASHER FOR M6  
 HEX BOLT  
 M6x1.5x15L



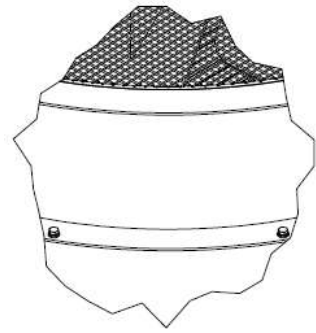
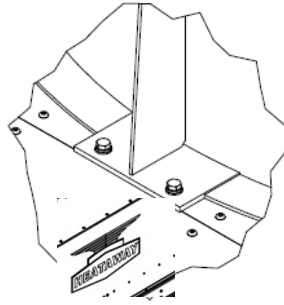
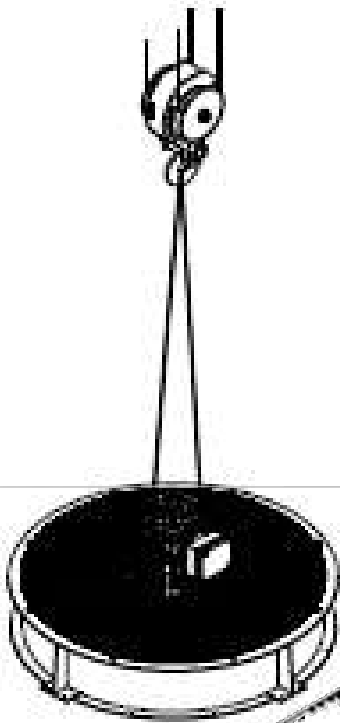
HEX NUT M16  
 SPRING WASHER FOR M16  
 WASHER FOR M16  
 HEX BOLT M16x1.5x60L

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

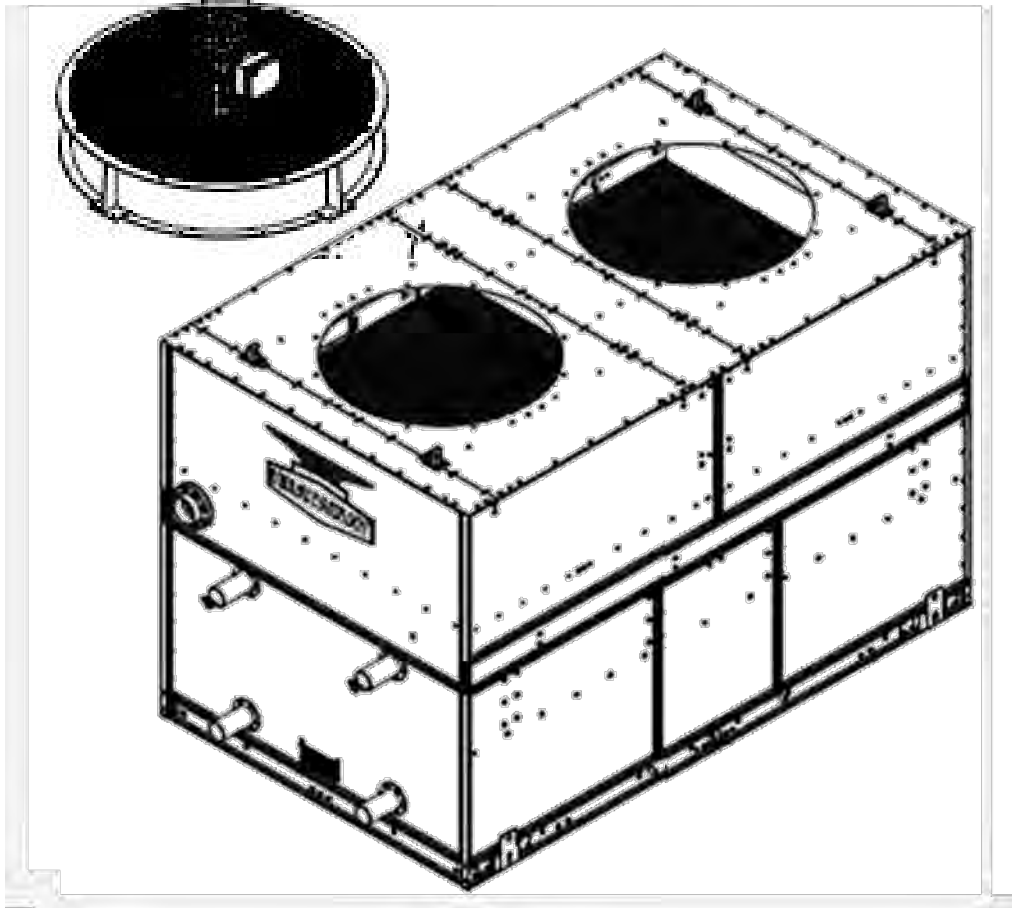
HEX NUT M8  
 WASHER FOR M8  
 HEX BOLT  
 M8x1.5x15L



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

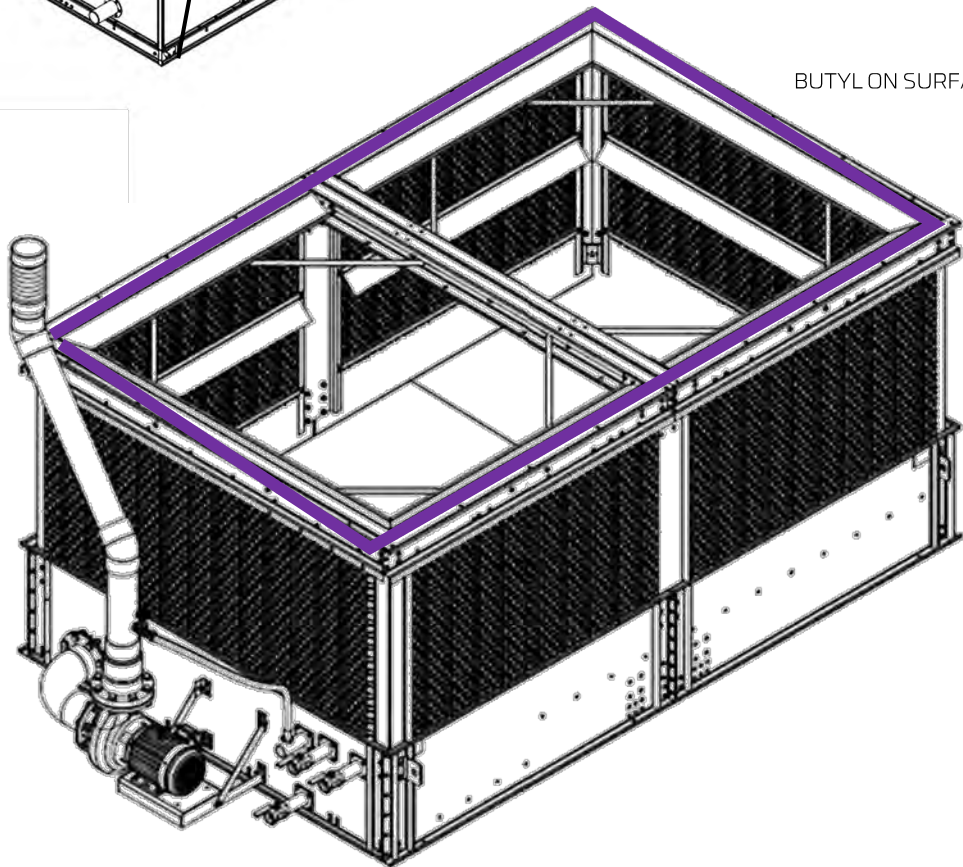
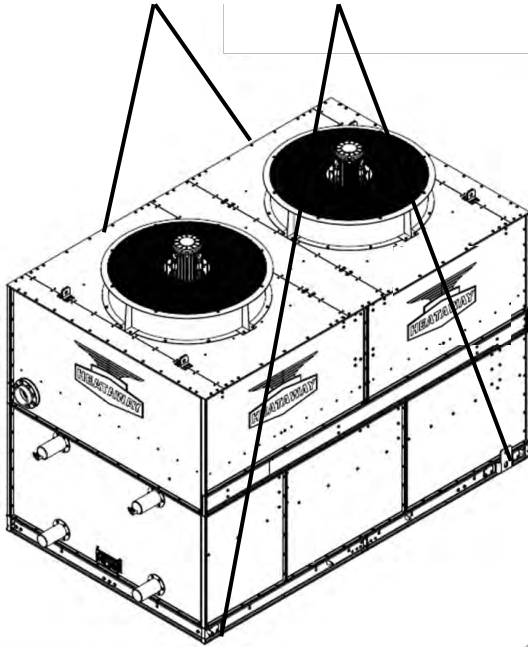


HEX BOLT  
M8x1.25x35L  
WASHER SPRING M8  
WASHER M8



### TIGHTENING TORQUE (A2-70)

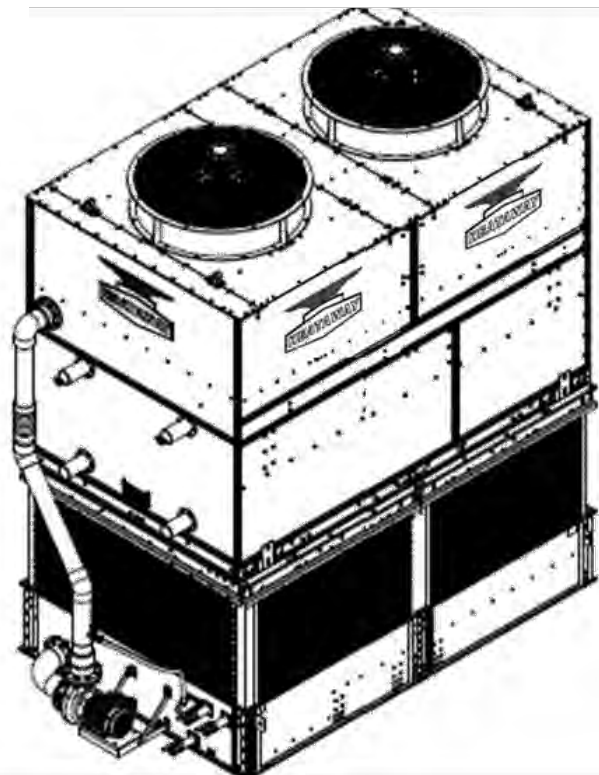
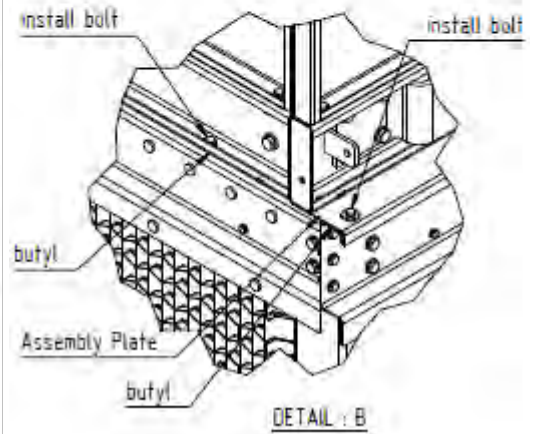
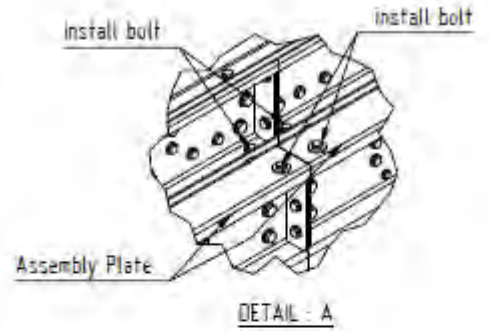
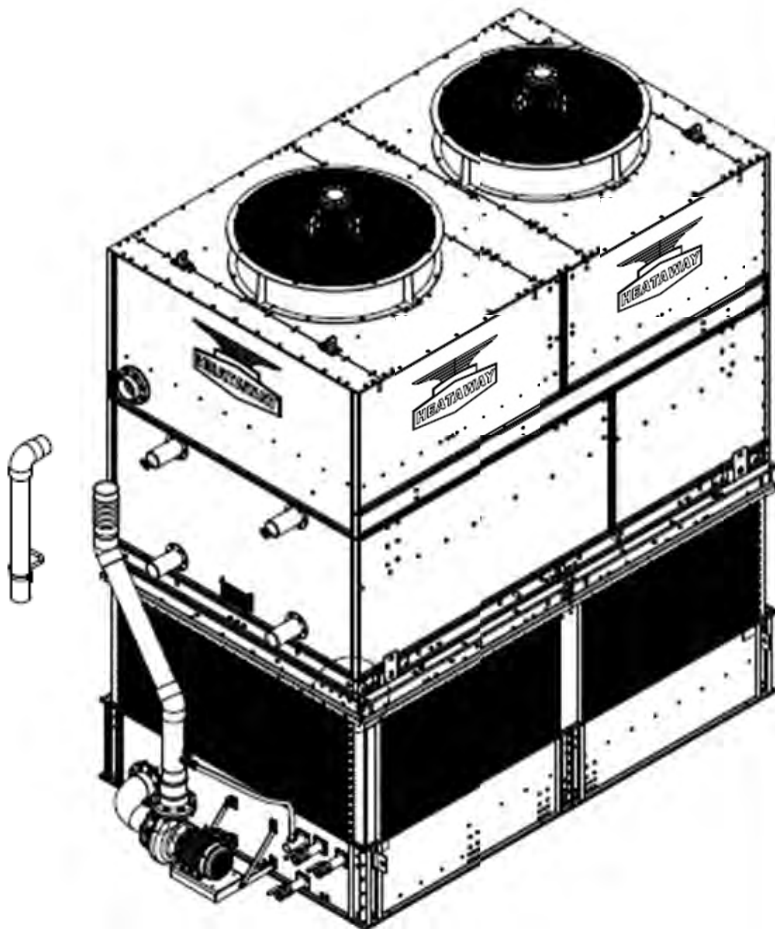
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BUTYL ON SURFACE

### 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  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

Footprint

# 8' X 18'

Model

EC9-1300-0818C-S

EC9-1480-0818C-L

EC9-1570-0818C-S

EC9-1630-0818C-M

EC9-1760-0818C-S

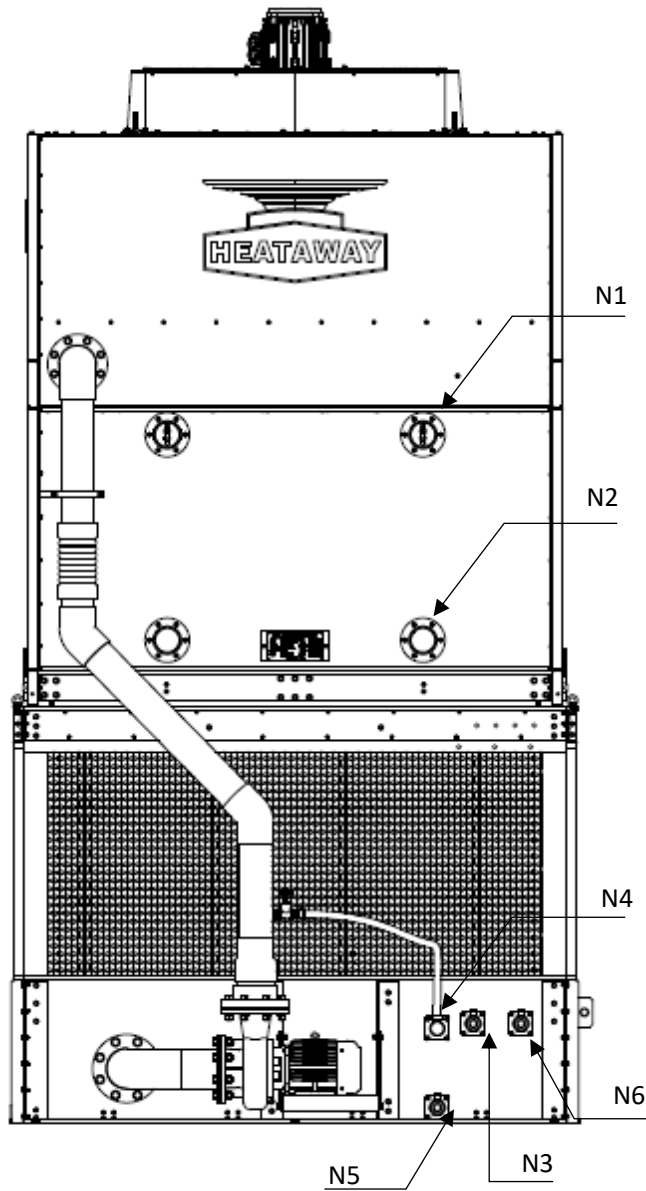
EC9-1850-0818C-M

EC9-1940-0818C-M

EC9-2070-0818C-L

EC9-2120-0818C-L

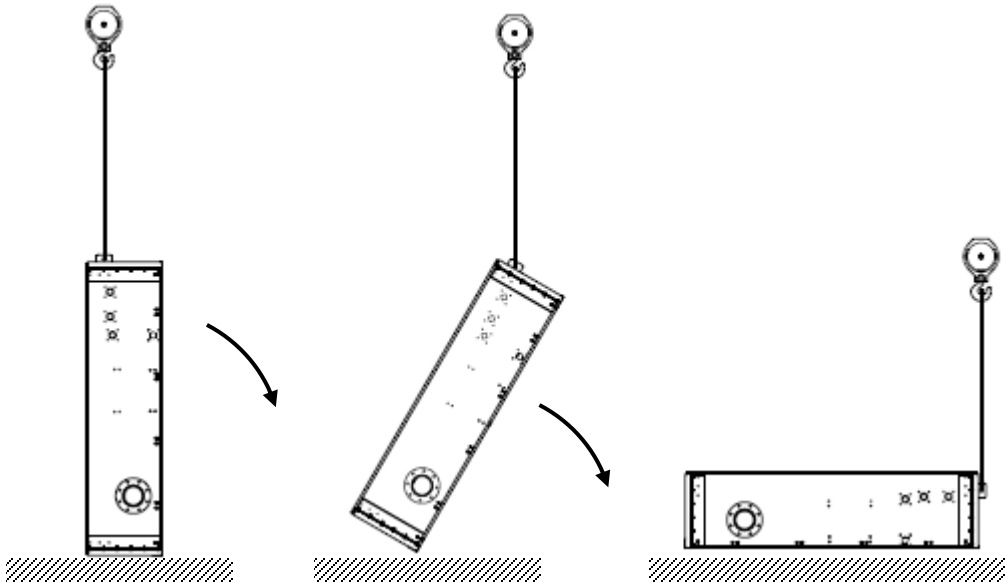
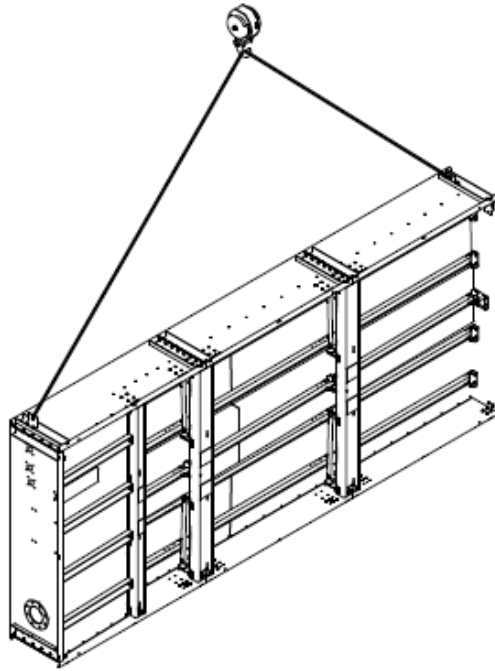




PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

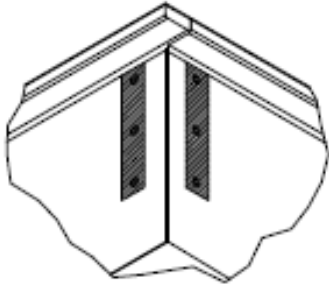


## Step 1: Basin Assembly

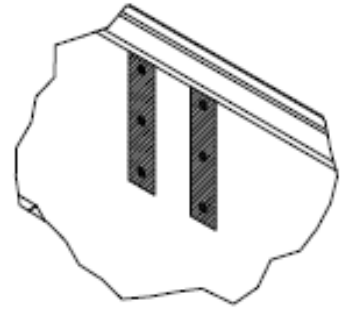


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

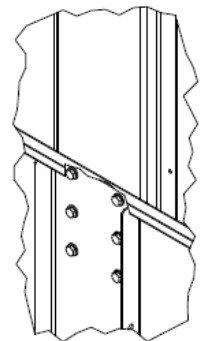
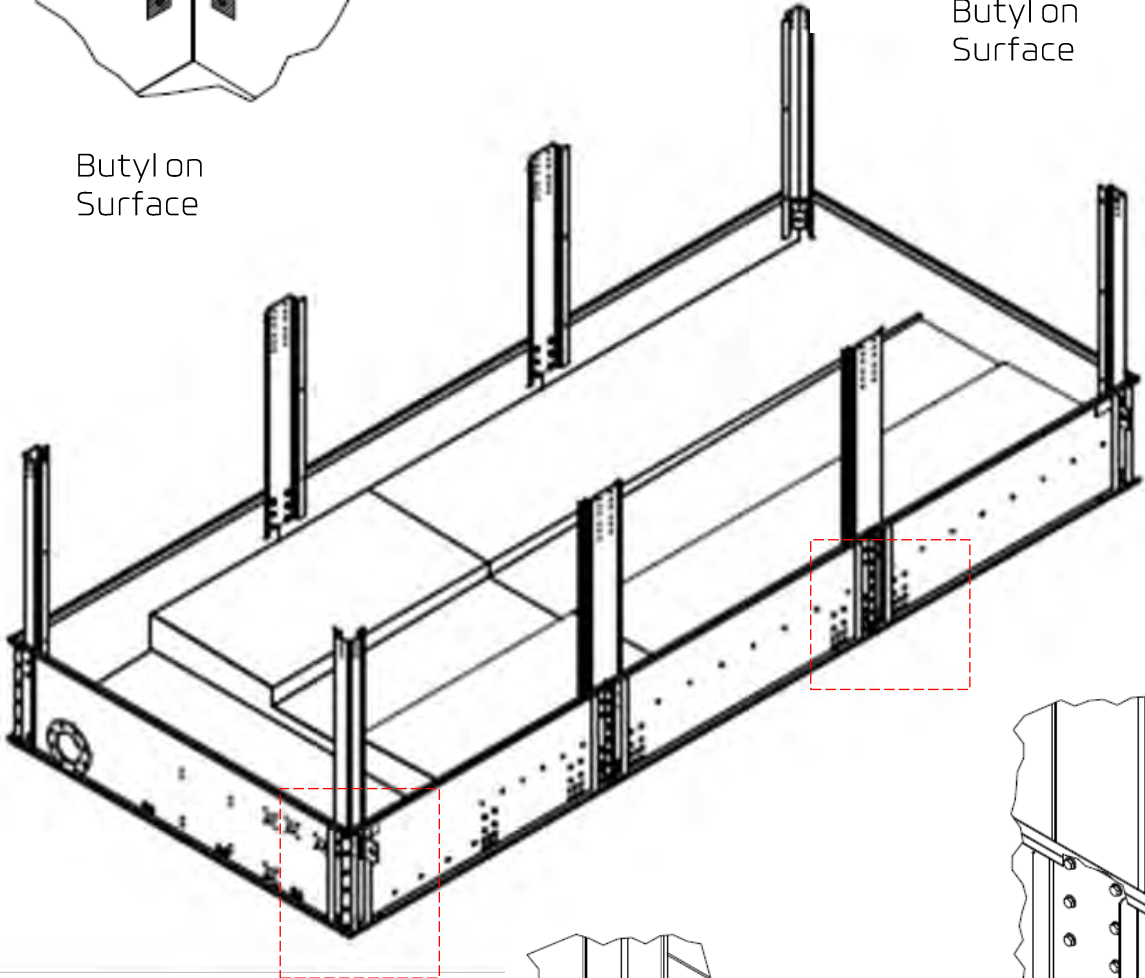
## Step 2 : Support Frame Assembly



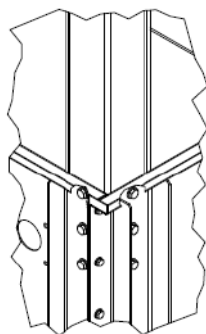
Butyl on Surface



Butyl on Surface



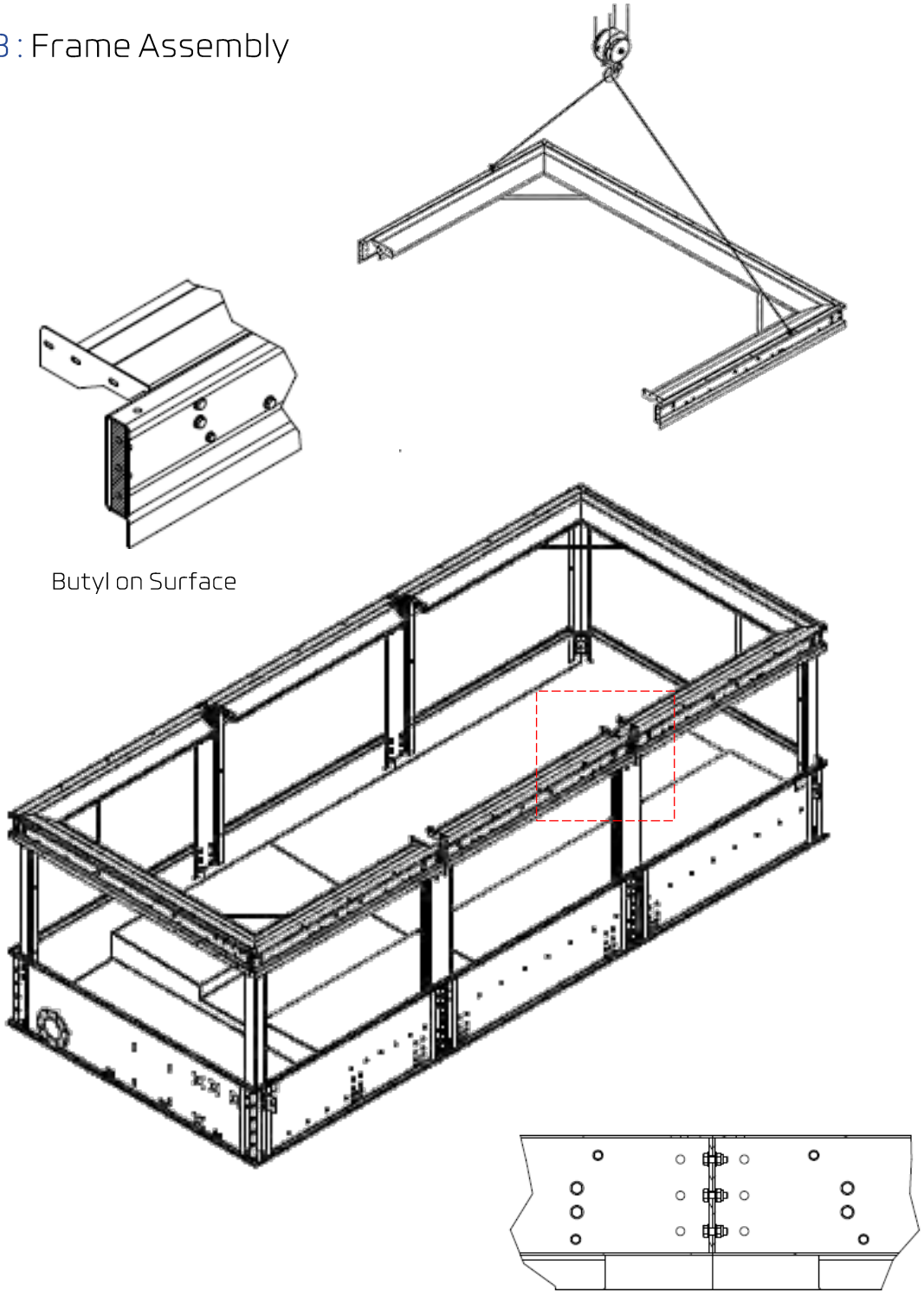
HEX BOLT  
M10x1.5x30L  
WASHER M10  
HEX NUT M10



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

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

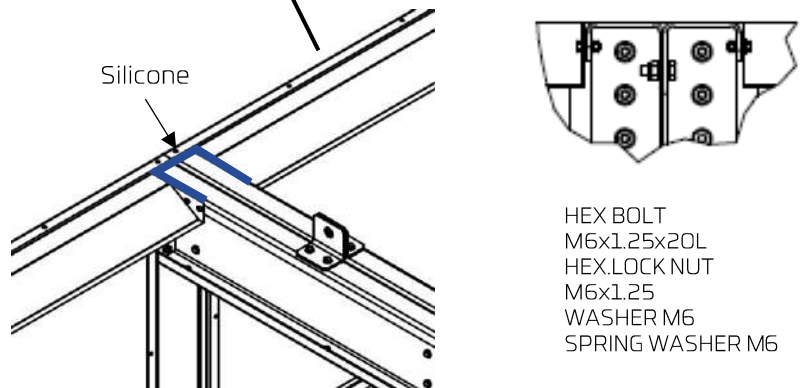
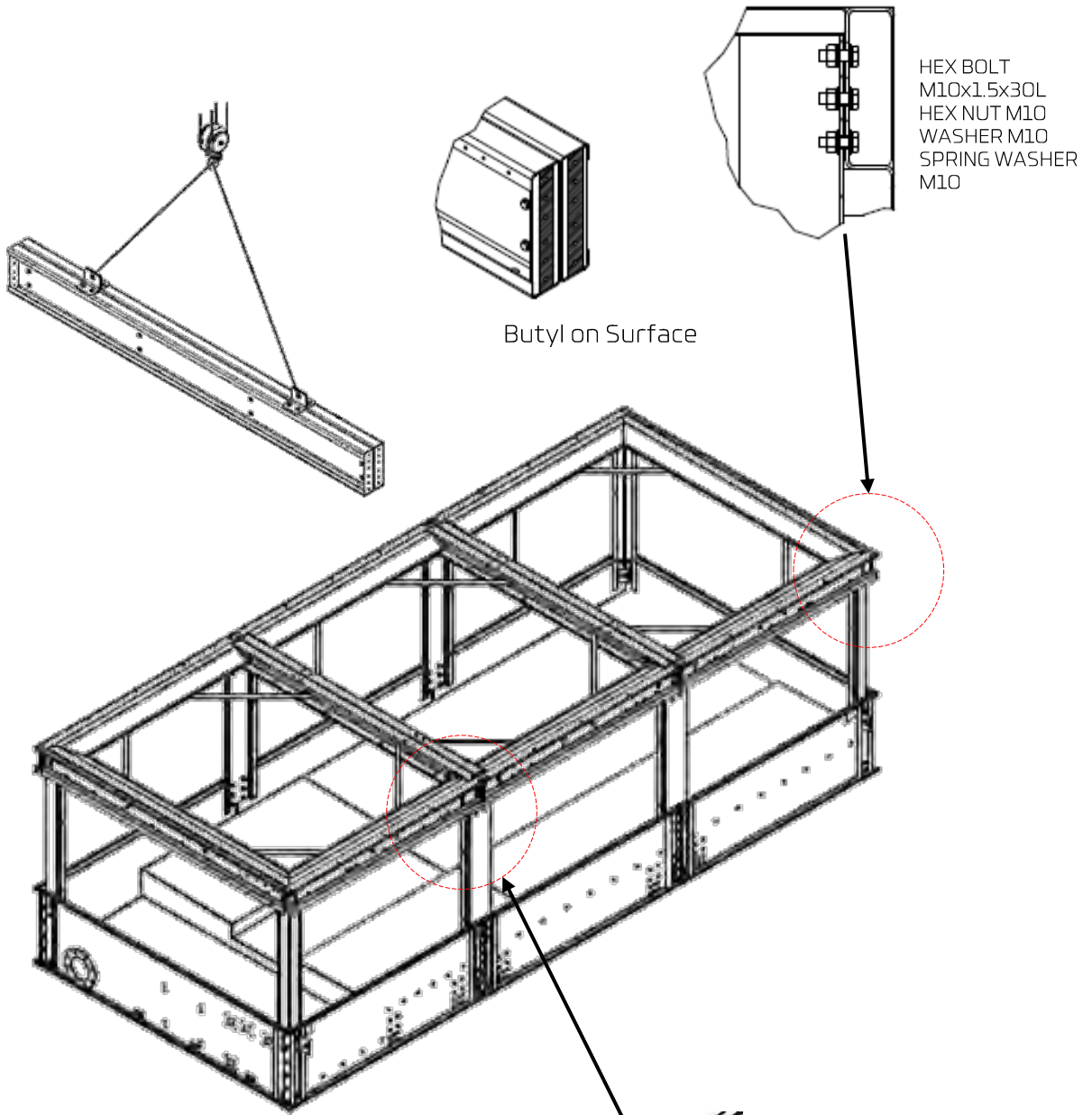
## Step 3: Frame Assembly



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

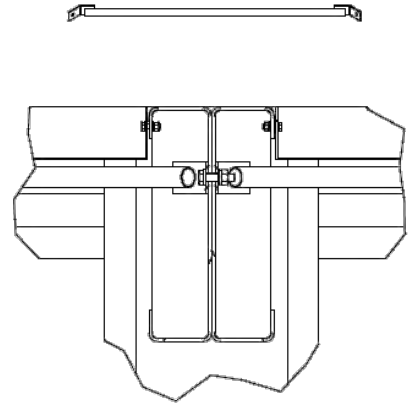
HEX BOLT  
 M8x1.25x25L  
 WASHER M8  
 HEX. LOCK NUT  
 M8x1.25

## Step 3: Frame Beam Assembly



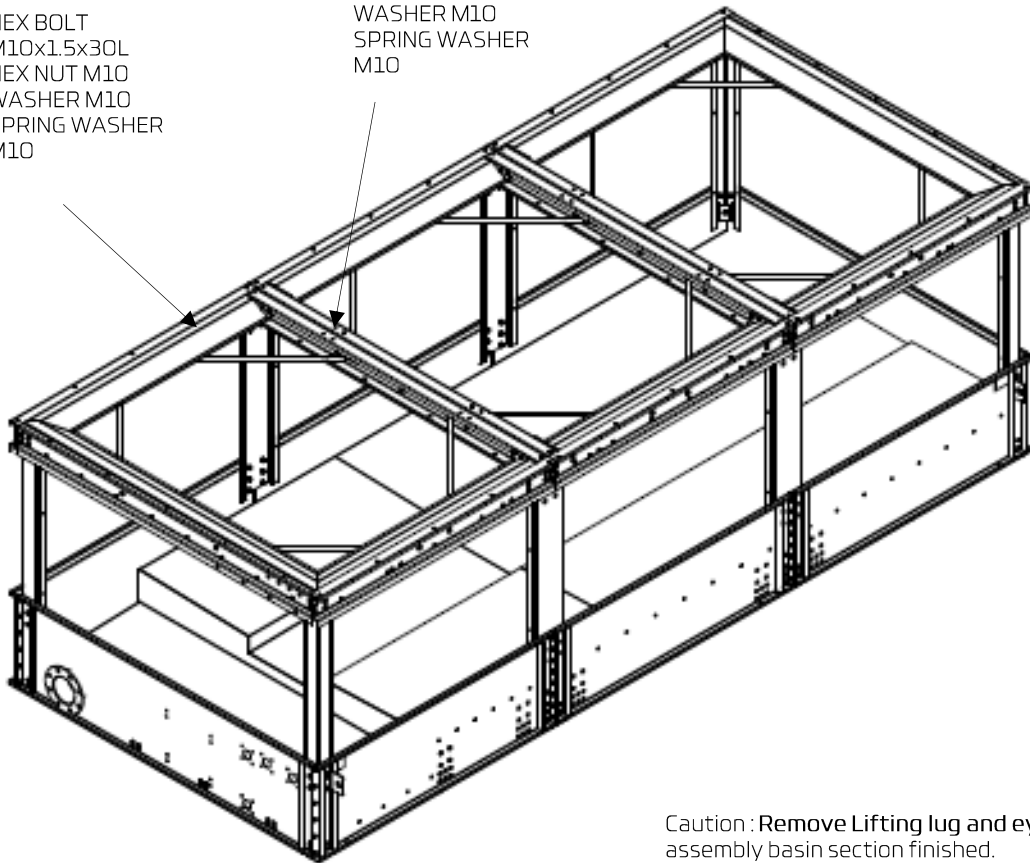
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 4: Support Frame Assembly

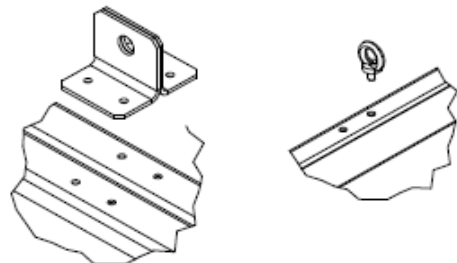


HEX BOLT  
M10x1.5x30L  
HEX NUT M10  
WASHER M10  
SPRING WASHER  
M10

HEX BOLT  
M10x1.5x40L  
HEX NUT M10  
WASHER M10  
SPRING WASHER  
M10

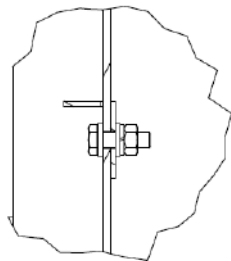
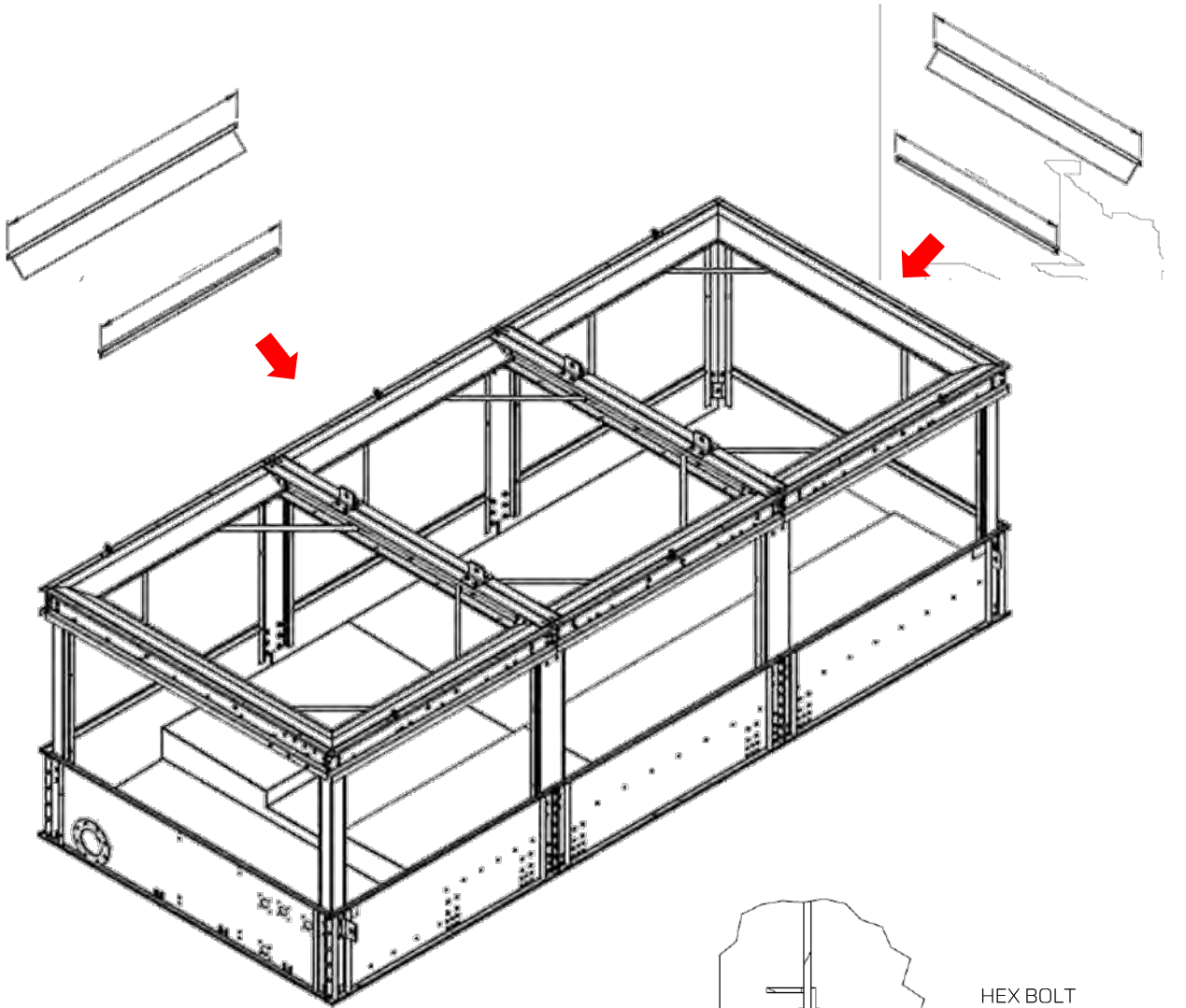


Caution : Remove Lifting lug and eye bolt after assembly basin section finished.

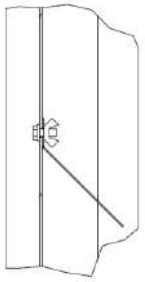


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 5: Water Deflect Assembly



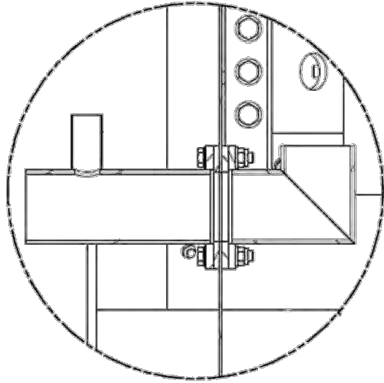
HEX BOLT  
M6x1.25x20L  
HEX LOCK NUT  
M6x1.25  
WASHER M6  
SPRING WASHER M6



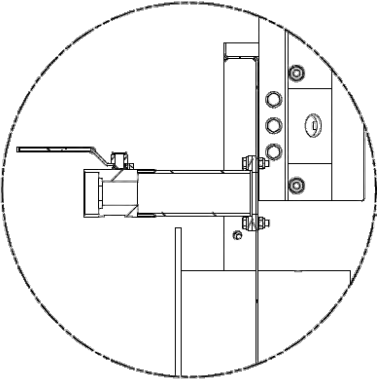
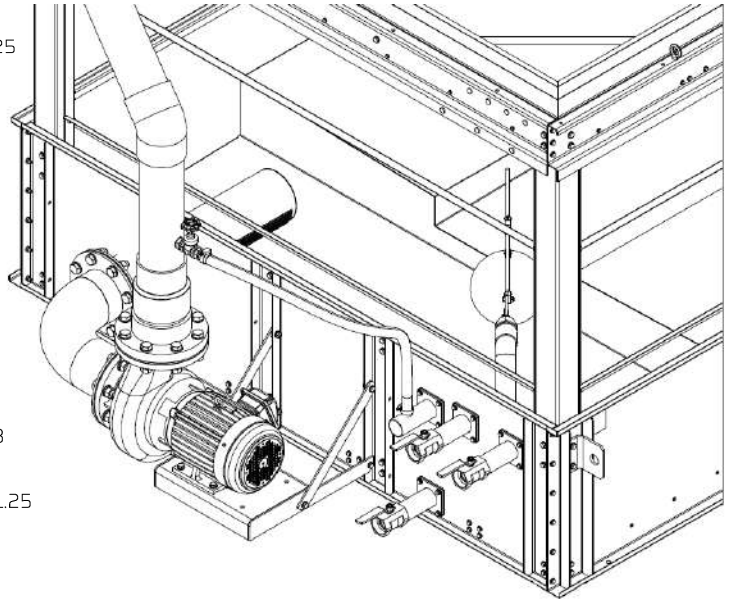
HEX BOLT  
M8x1.25x20L  
WING NUT M8  
WASHER M8

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

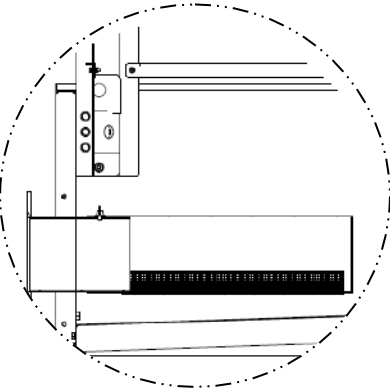
## Step 6 : Piping and Valve Assembly



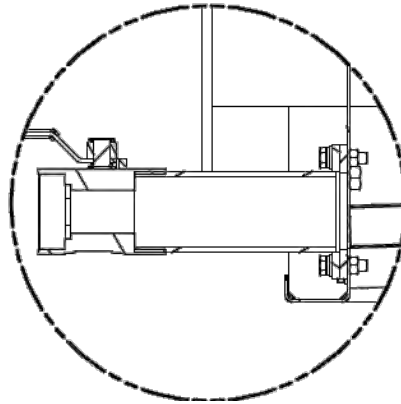
PIPE OVER FLOW  
BOLT M8x1.25x40L  
NR GASKET  
WASHER FOR M8  
HEX.LOCK NUT M8X1.25



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



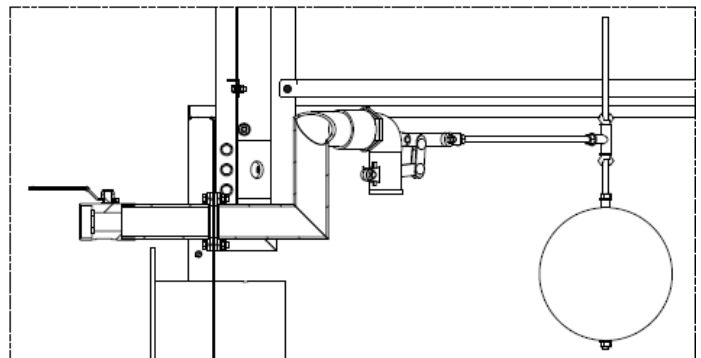
PIPE WITH STRAINER  
WING SCREW - M8 x 12  
WASHER



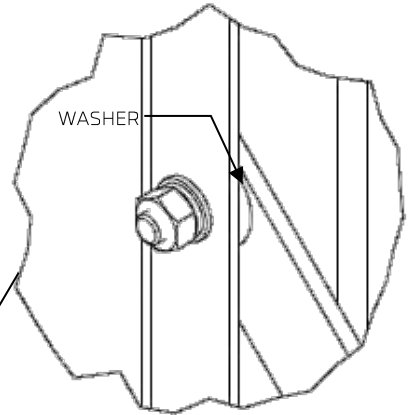
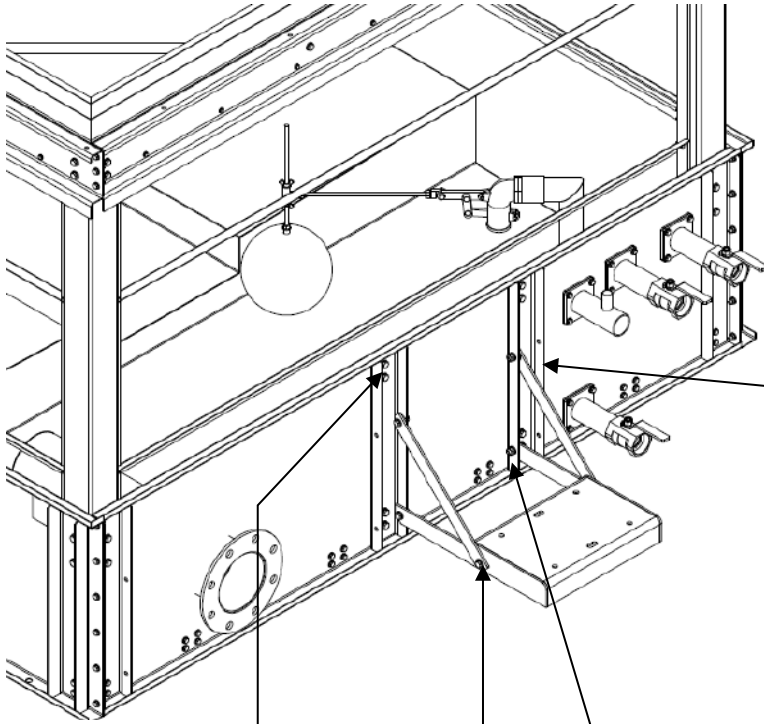
BALL VALVE  
DRAIN WATER PIPE  
BOLT M8x1.25x30L  
SPRING WASHER M8  
WASHER FOR M8  
NR GASKET  
HEX.LOCK NUT M8X1.25

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

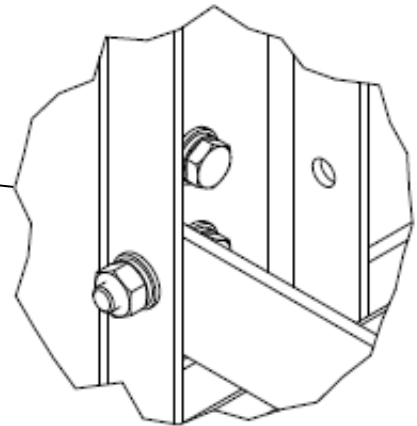


## Step 7: Water Pump Base Assembly

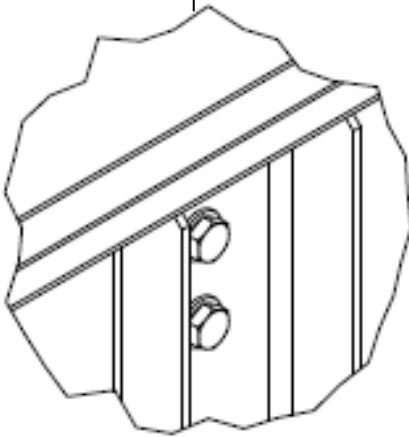


WASHER

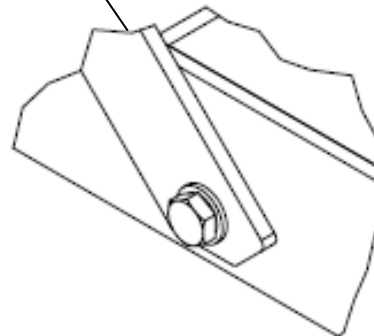
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



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

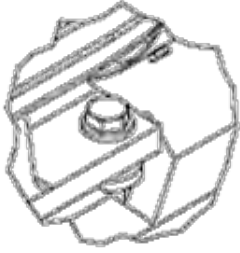


HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5

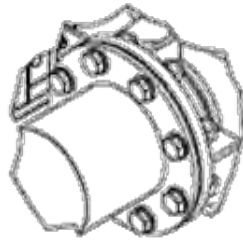
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



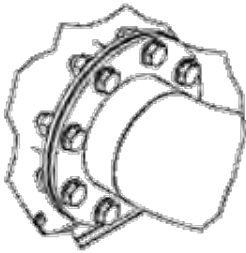
## Step 8: Water Pump pipe Assembly



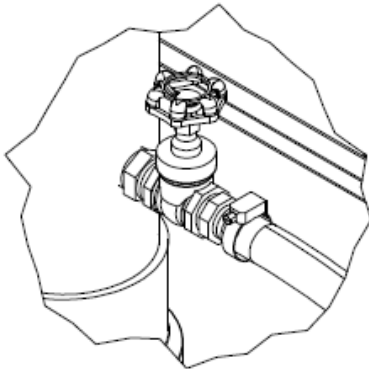
HEX NUT M12x1.75  
 SPRING WASHER FOR M12  
 WASHER FOR M12  
 HEX BOLT M12x1.75x50L



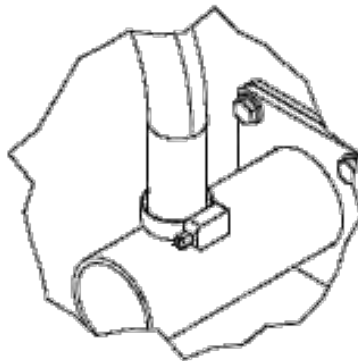
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x70L



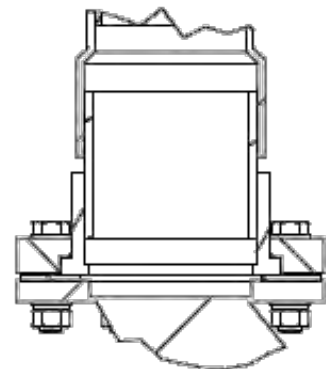
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x60L



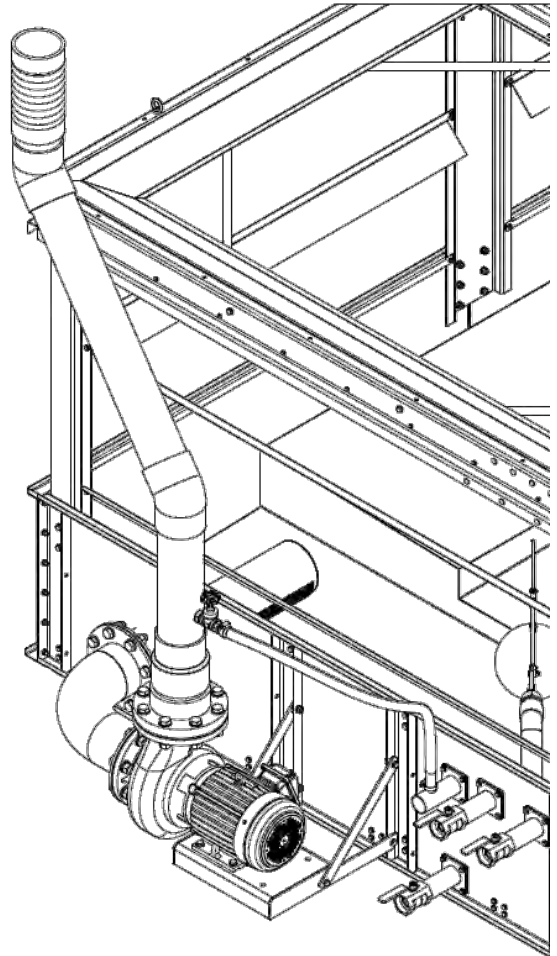
HOSE CLAMP 1"  
 TEXTILE HOSE 1"



HOSE CLAMP 1"  
 TEXTILE HOSE 1"

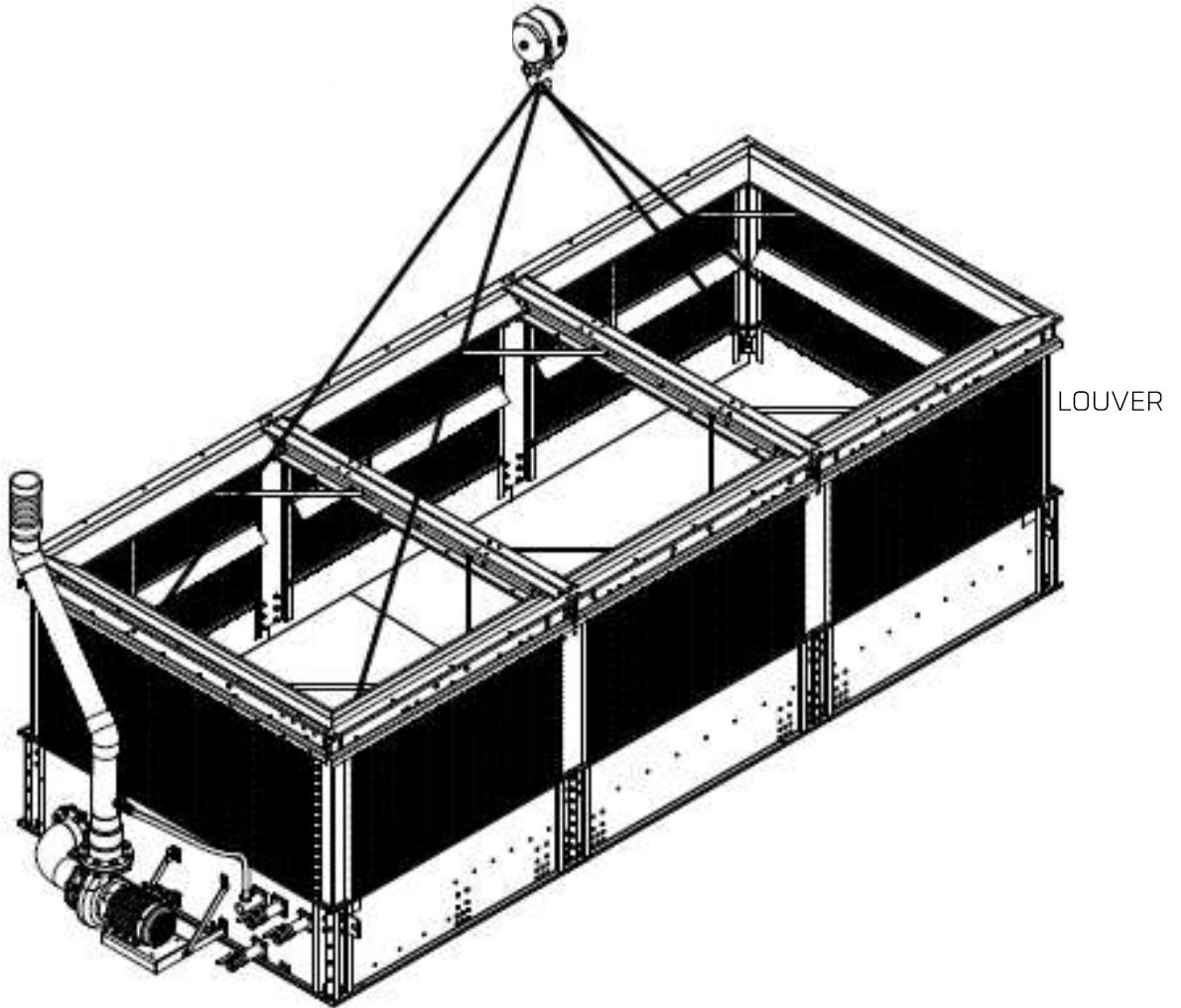


HEX BOLT M20x90L  
 HEX LOCK NUT M20  
 WASHER FOR M20  
 SPRING WASHER FOR M20



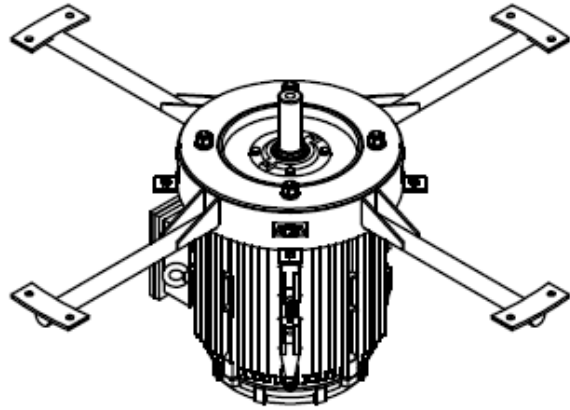
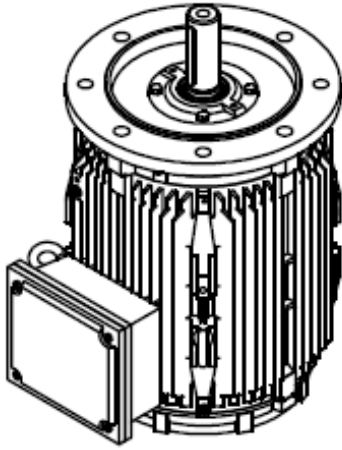
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 9: Move Assembled Basin to Position

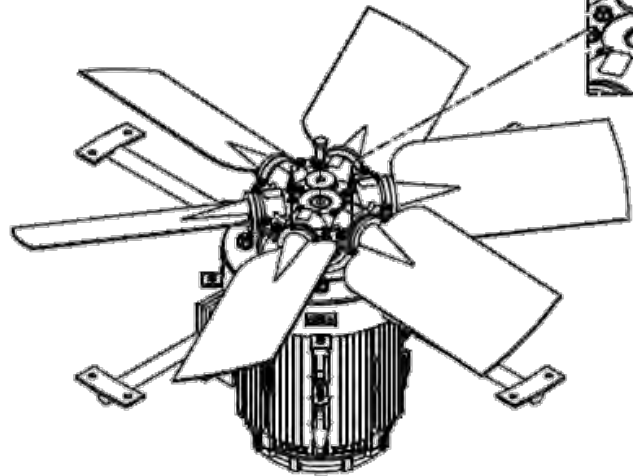
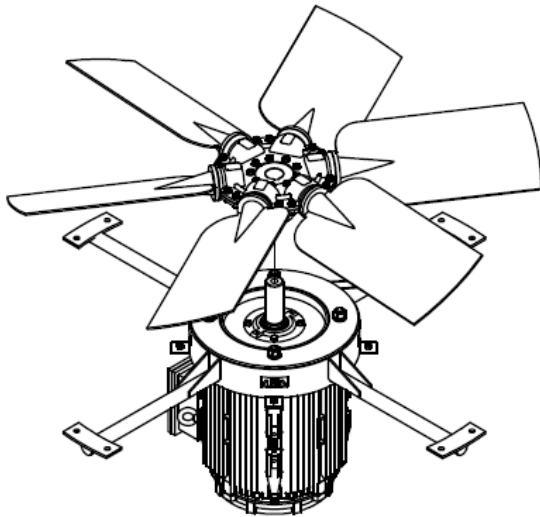
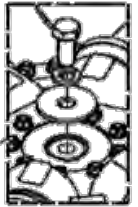


### TIGHTENING TORQUE (A2-70)

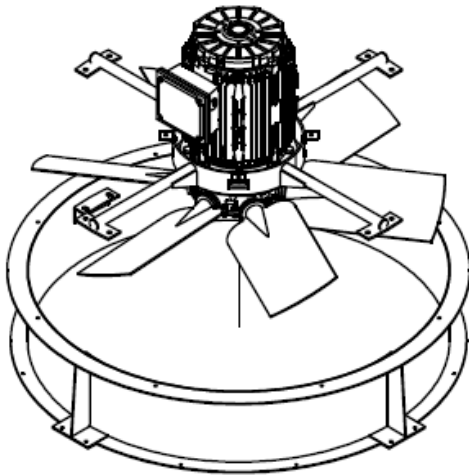
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



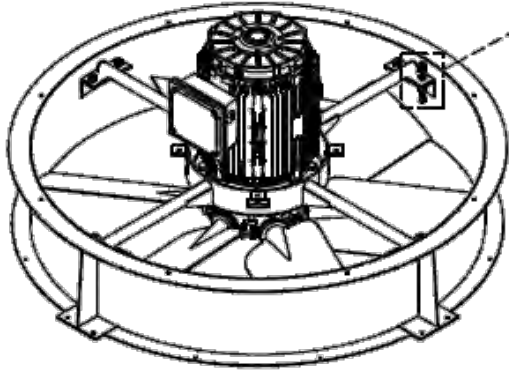
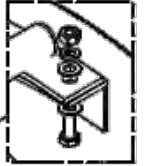
HEX NUT M16  
 SPRING WASHER FOR M16  
 WASHER FOR M16  
 HEX BOLT M16x1.5x60L



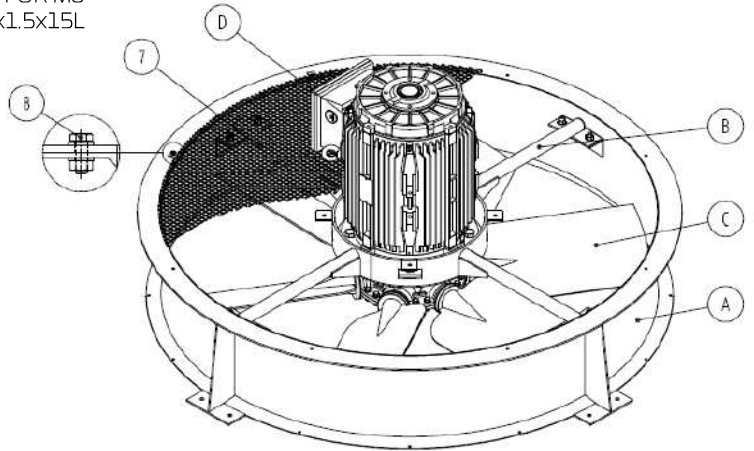
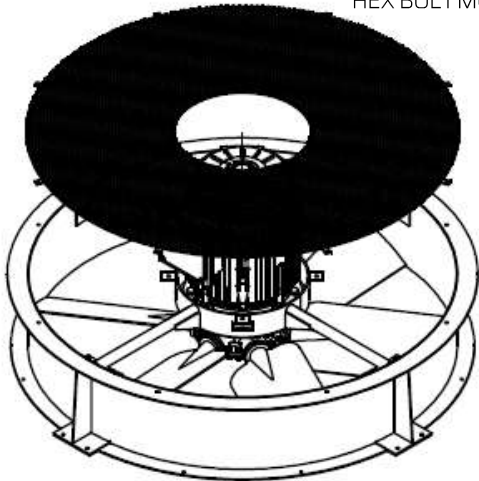
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



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



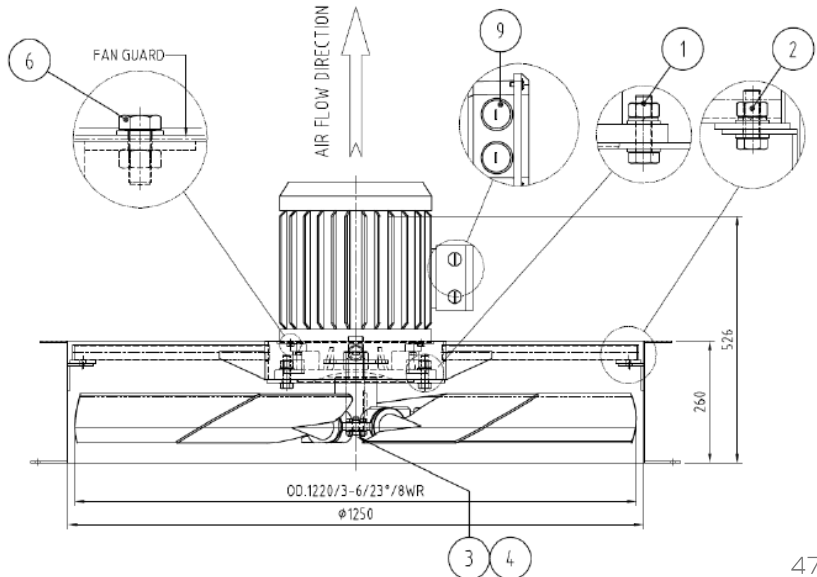
HEX NUT M6  
 WASHER FOR M6  
 HEX BOLT M6x1.5x15L



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

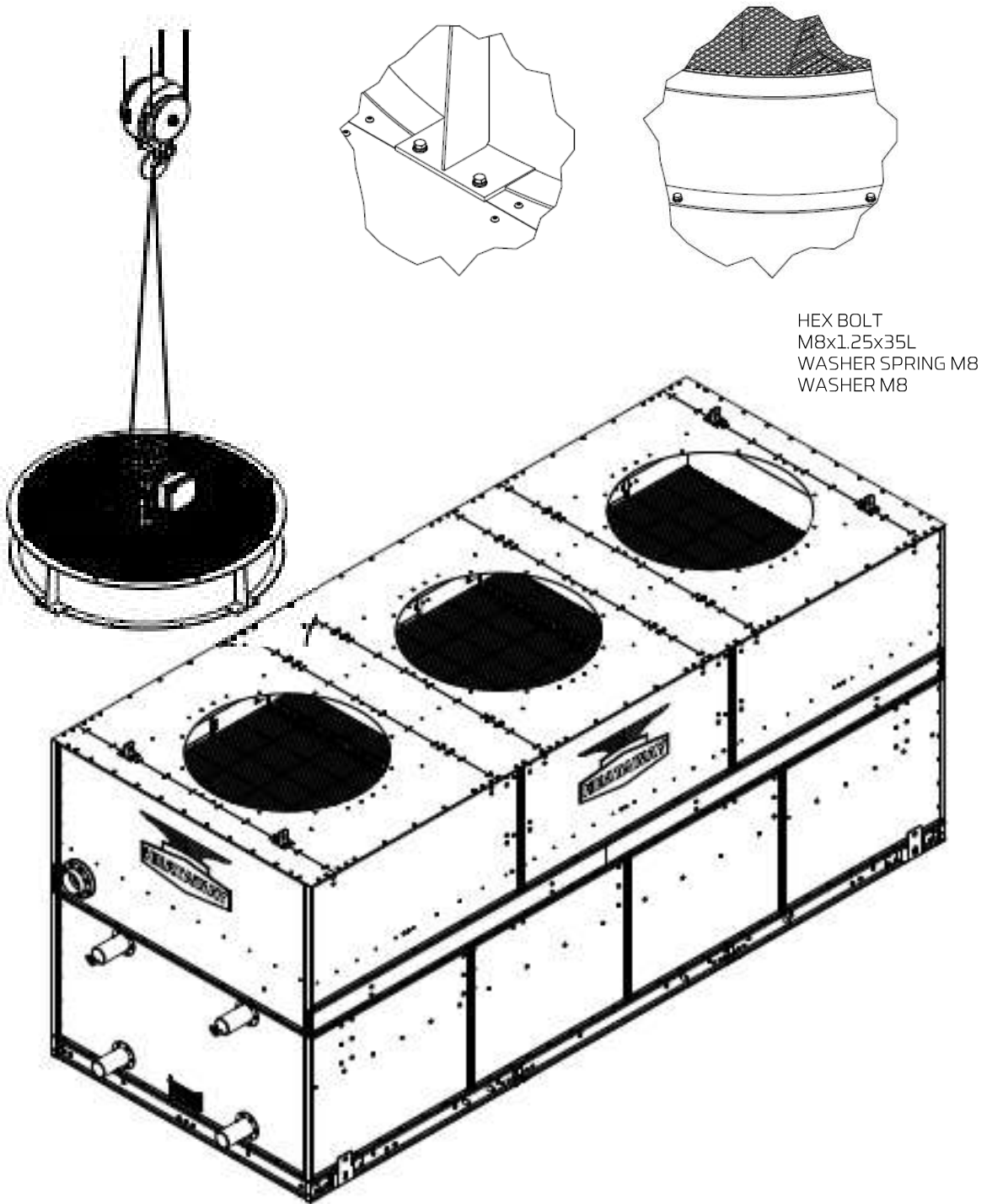
HEX NUT M10  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX BOLT M10x1.5x30L

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

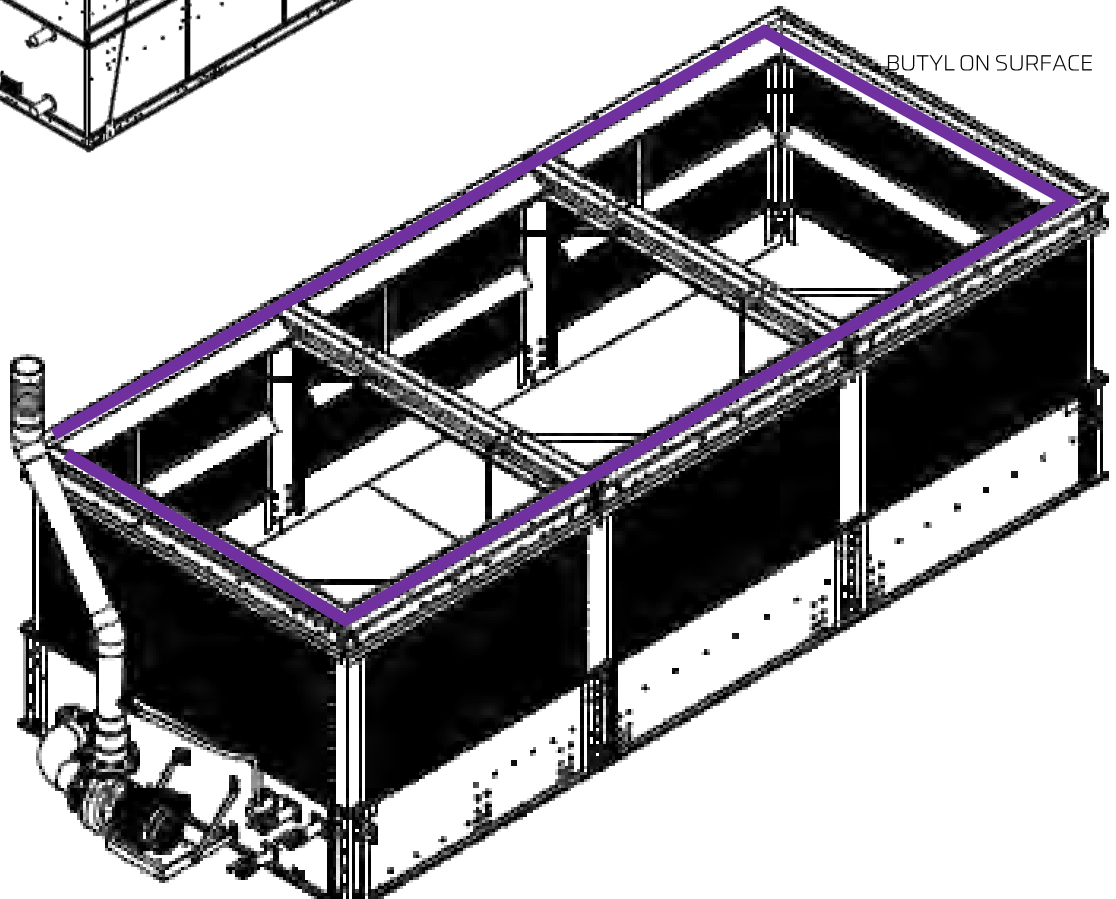
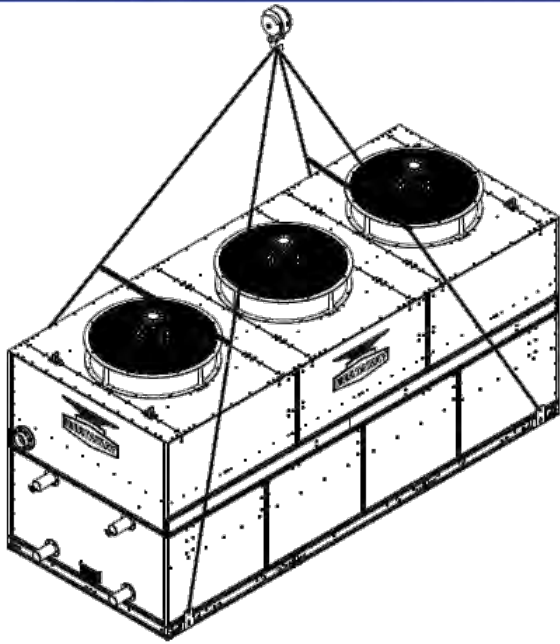


### TIGHTENING TORQUE (A2-70)

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

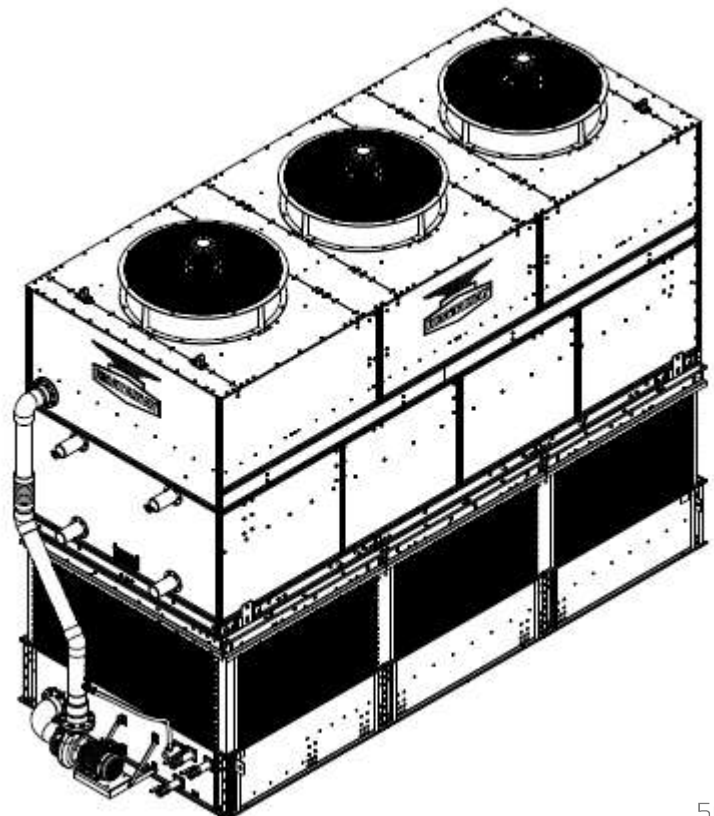
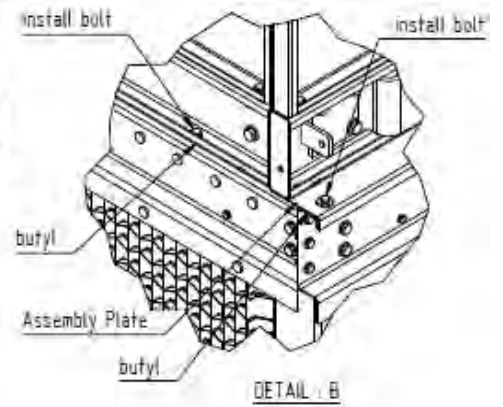
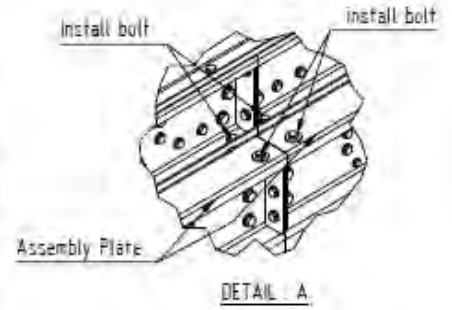
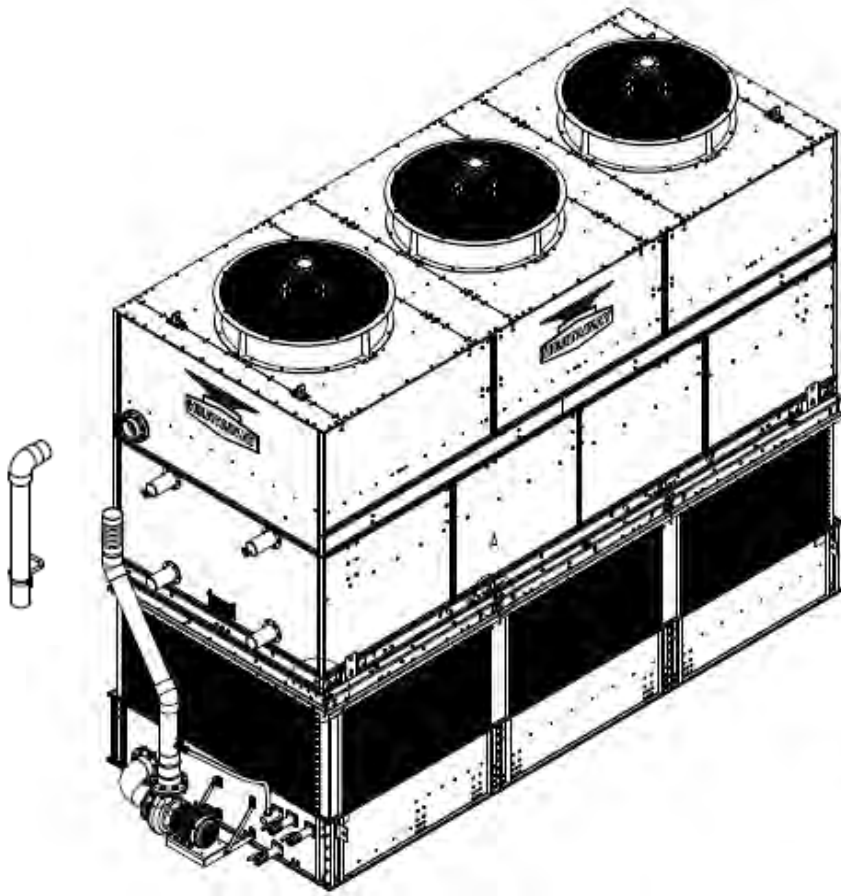


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



### 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  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

Footprint

**10' X 12'**

Model

EC9-1400-1012C-S

EC9-1550-1012C-M

EC9-1645-1012C-L

EC9-1790-1012C-M

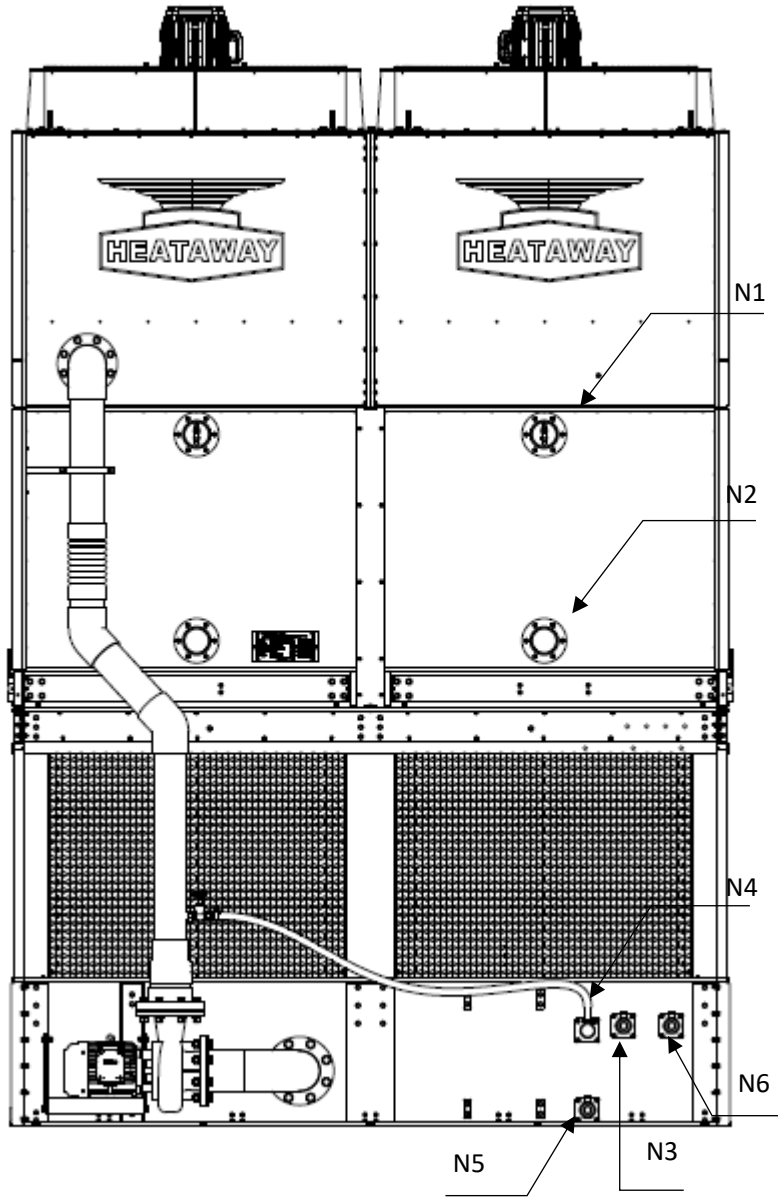
EC9-1900-1012C-L

EC9-1960-1012C-M

EC9-2050-1012C-L

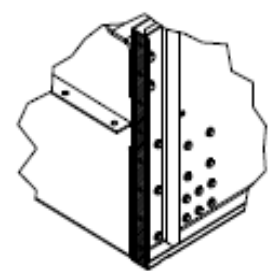
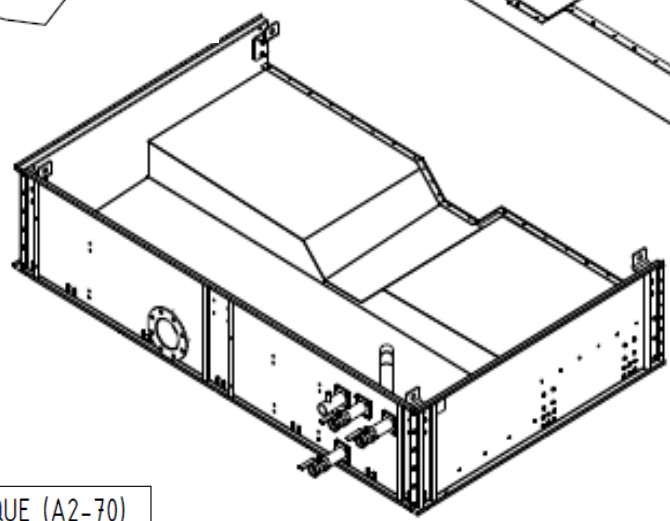
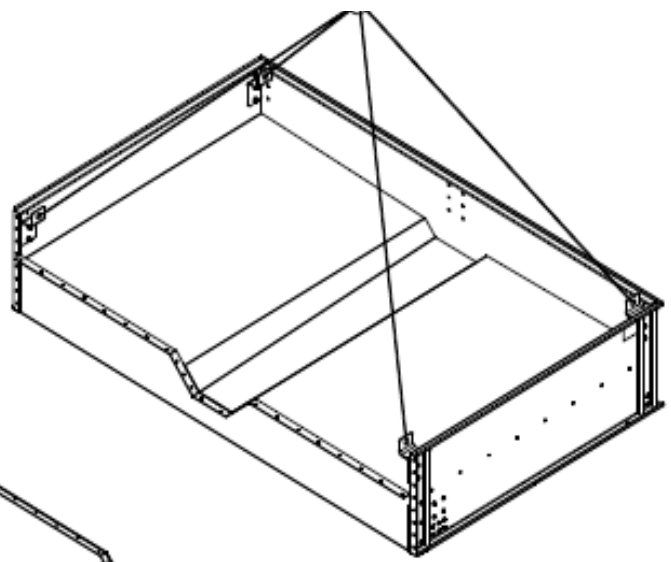
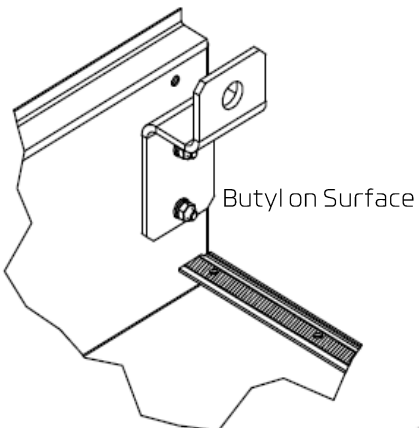
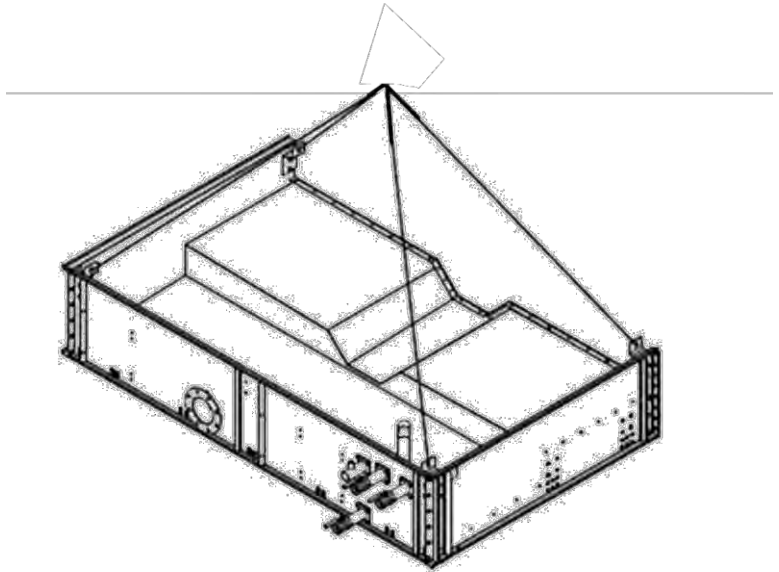






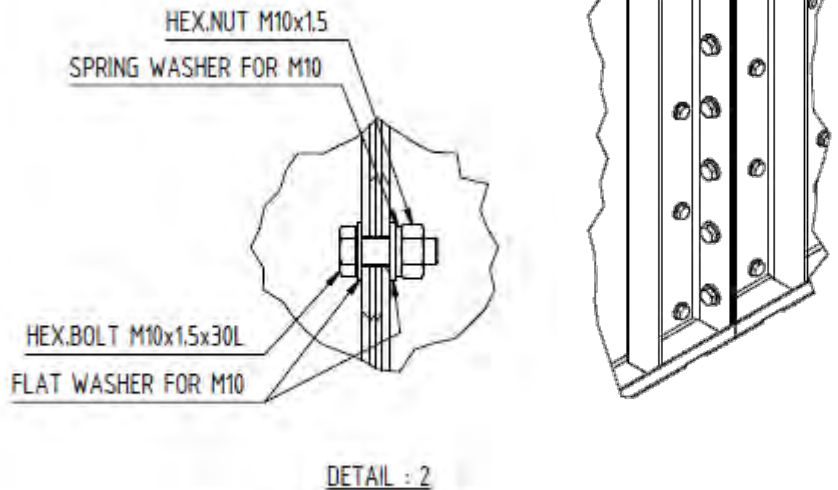
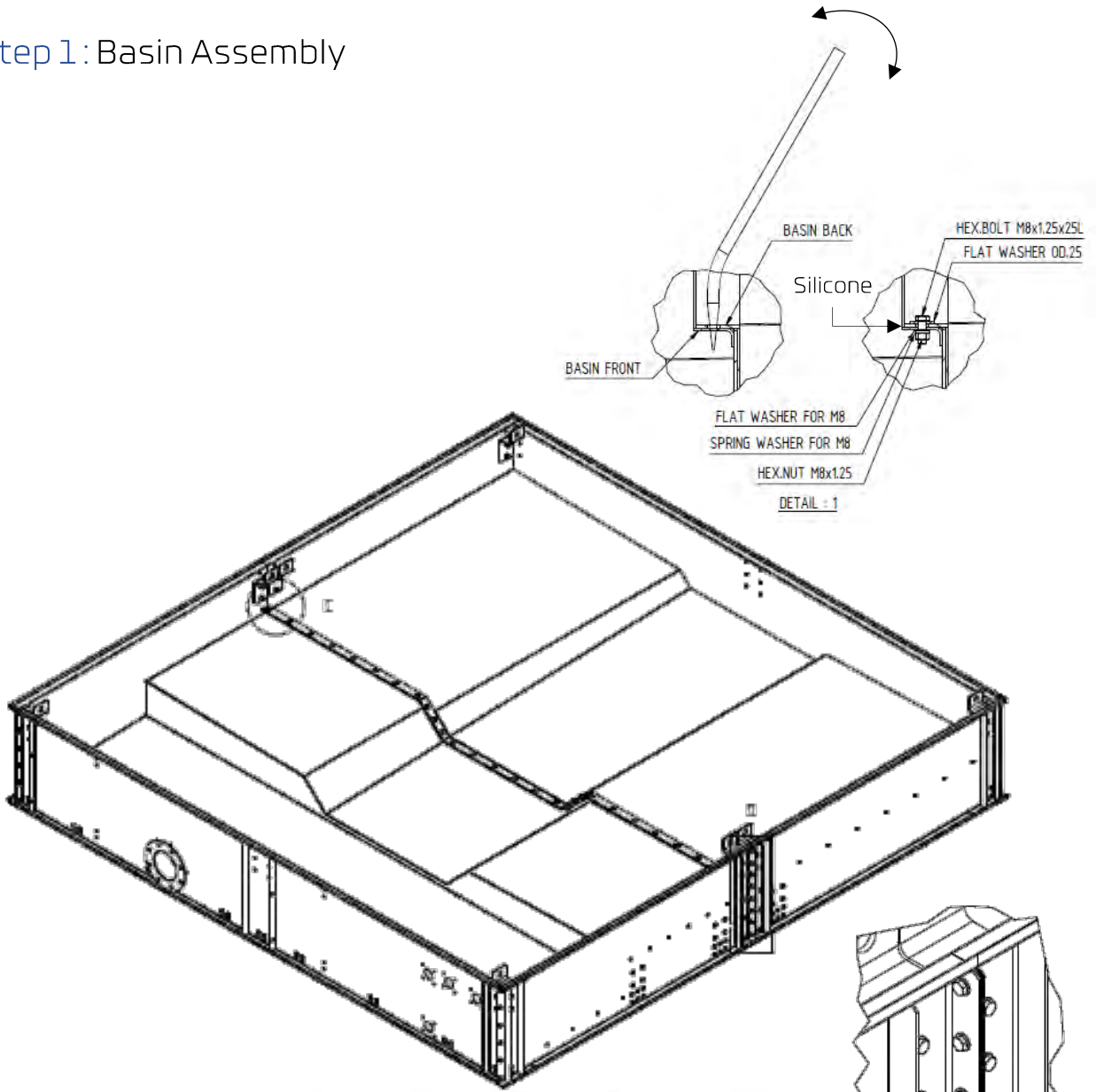
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

## Step 1: Basin Assembly



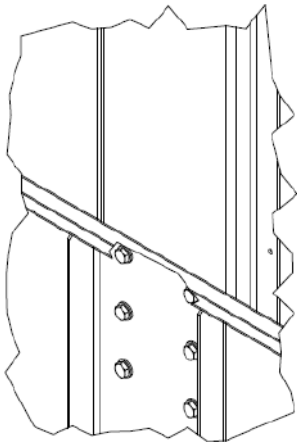
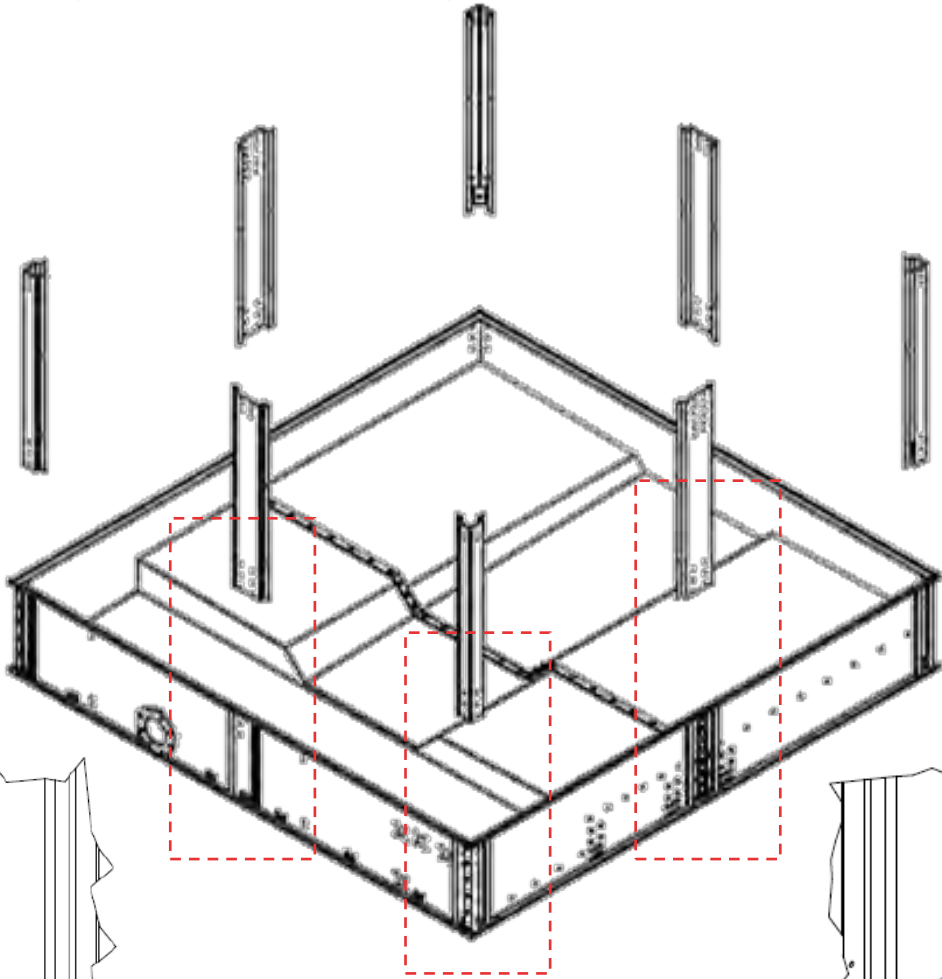
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 1: Basin Assembly



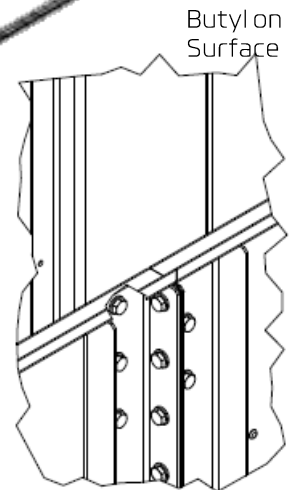
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 2 : Support Frame Assembly



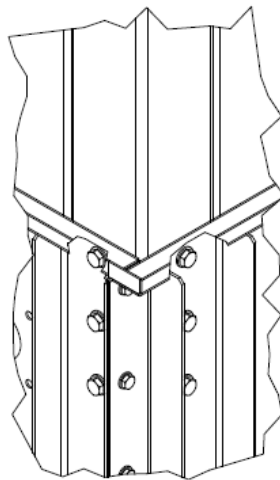
Butyl on Surface

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



Butyl on Surface

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

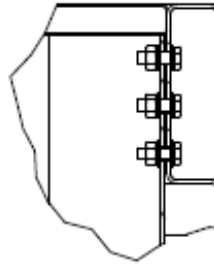
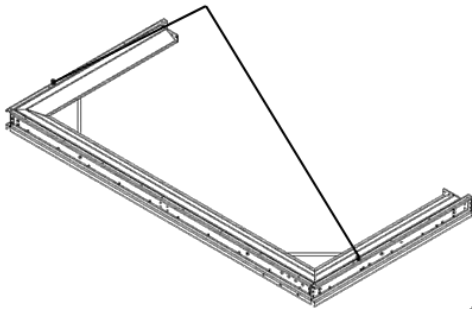


Butyl on Surface

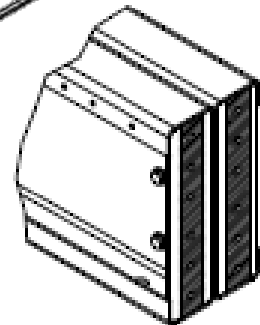
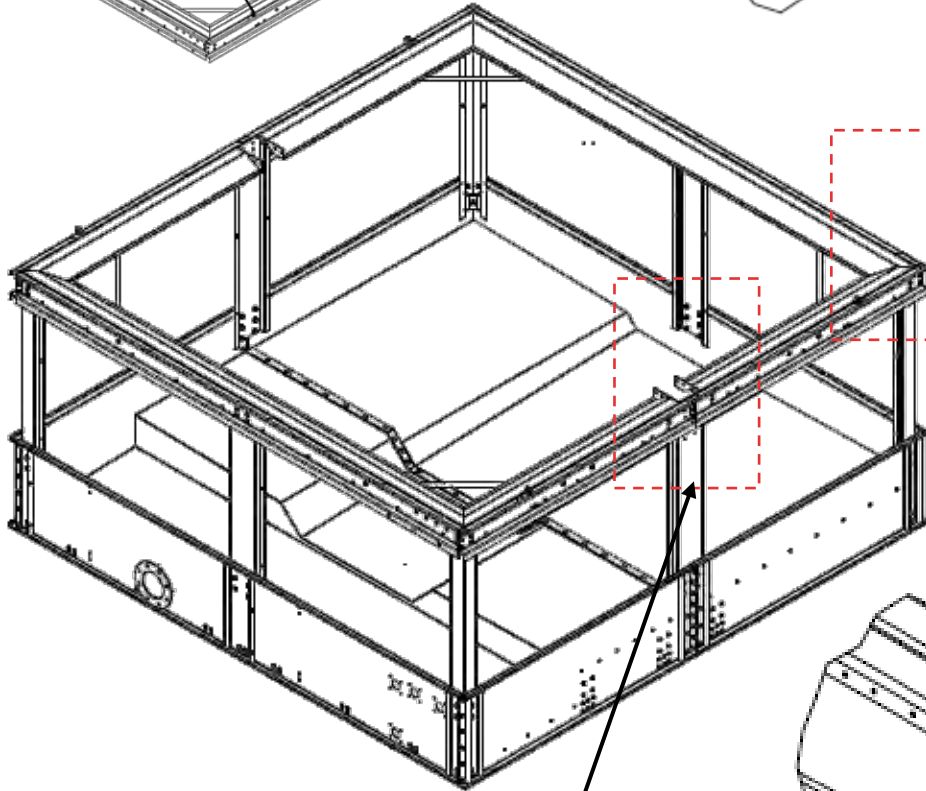
HEX BOLT M10x1.5x30L  
HEX NUT M10  
WASHER M10  
SPRING WASHER M10

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

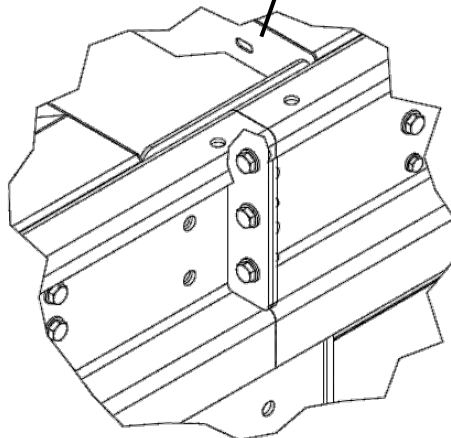
## Step 3: Frame Assembly



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



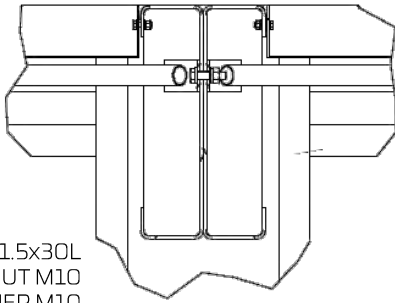
Butyl on Surface



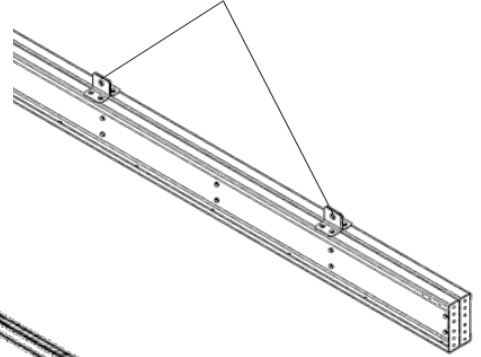
HEX BOLT  
M8x1.25x25L  
HEX.LOCK NUT  
M8x1.25  
WASHER M8

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

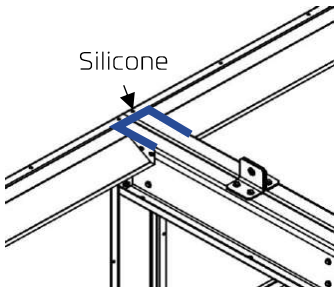
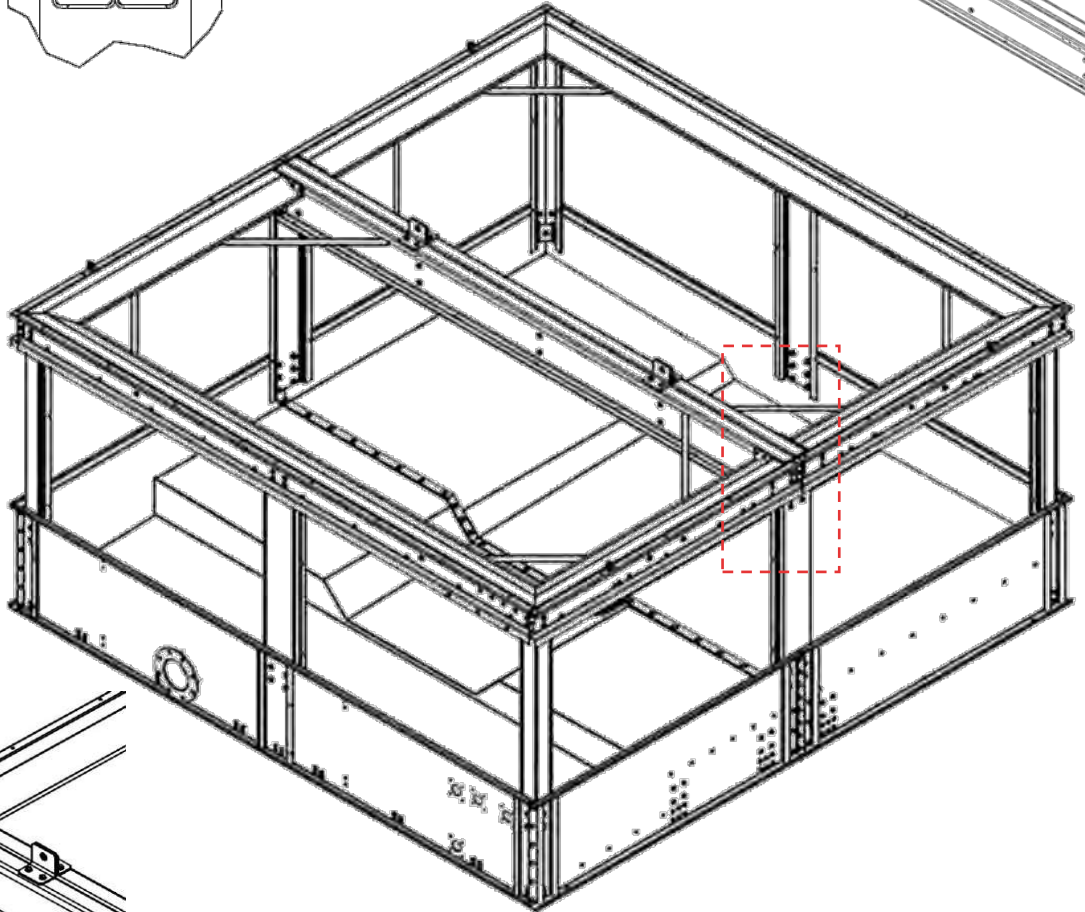
## Step 4 : Frame Beam and Support Assembly



HEX BOLT M10x1.5x40L  
 HEX NUT M10  
 WASHER M10  
 SPRING WASHER M10

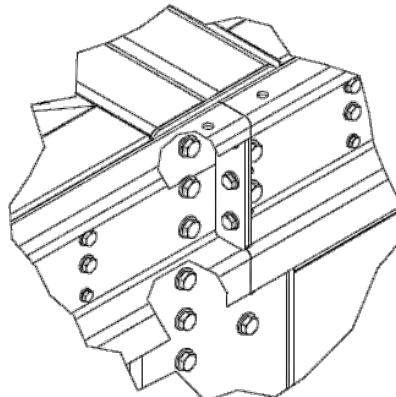


HEX BOLT M10x1.5x30L  
 HEX NUT M10  
 WASHER M10  
 SPRING WASHER M10



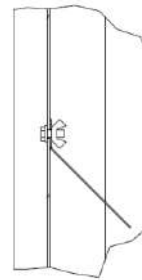
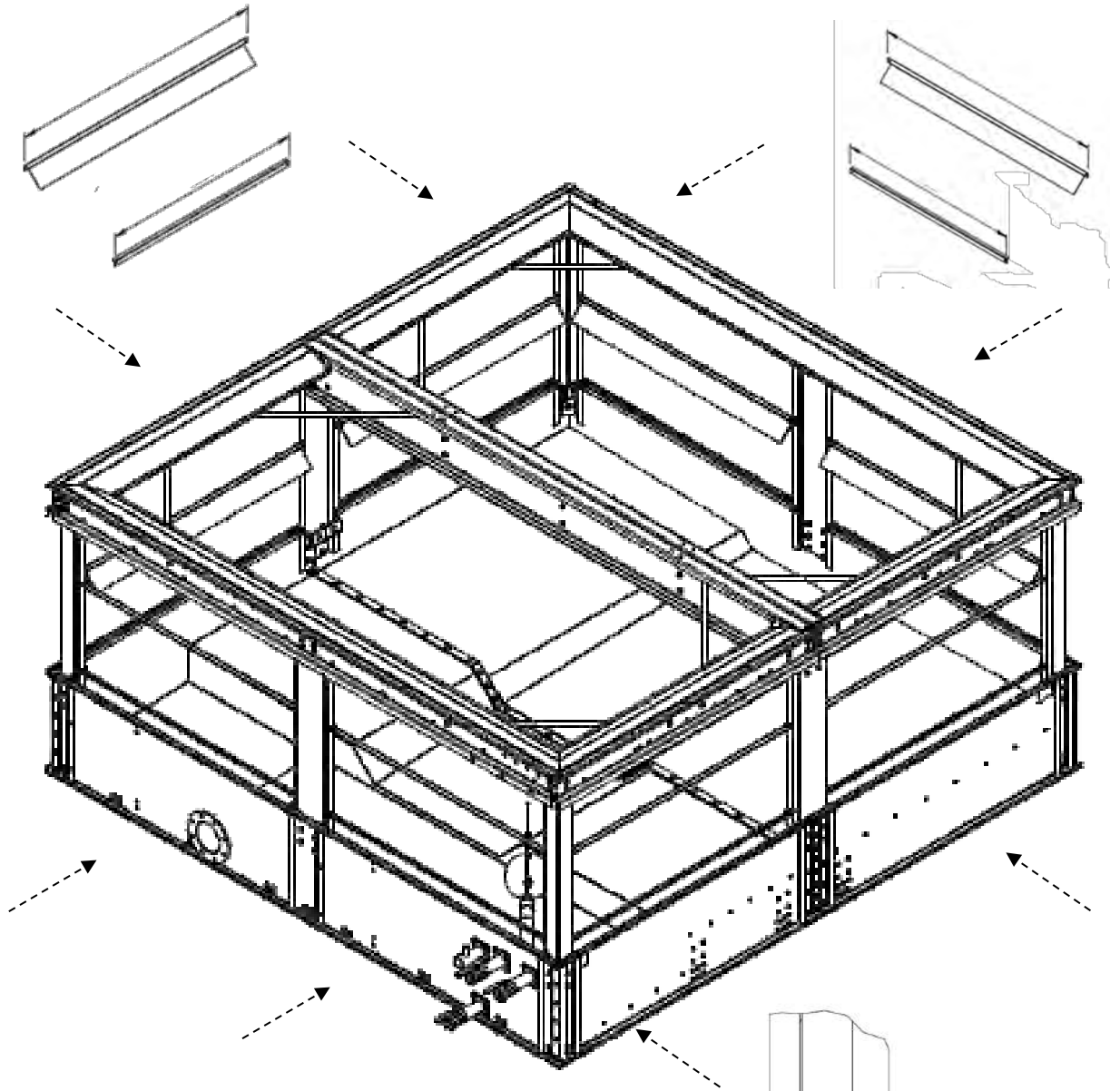
Silicone

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

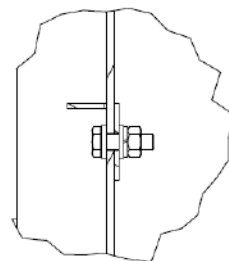


HEX BOLT M10x1.5x30L  
 HEX NUT M10  
 WASHER M10  
 SPRING WASHER M10

## Step 5: Water Deflect Assembly



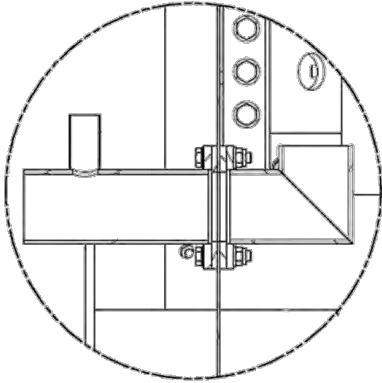
HEX BOLT  
M8x1.25x20L  
WING NUT M8  
WASHER M8



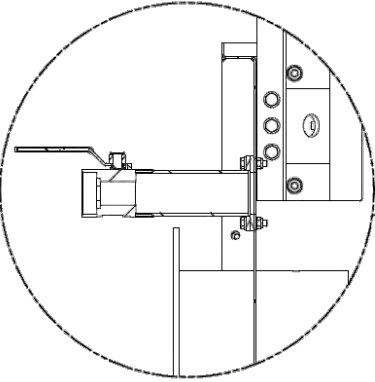
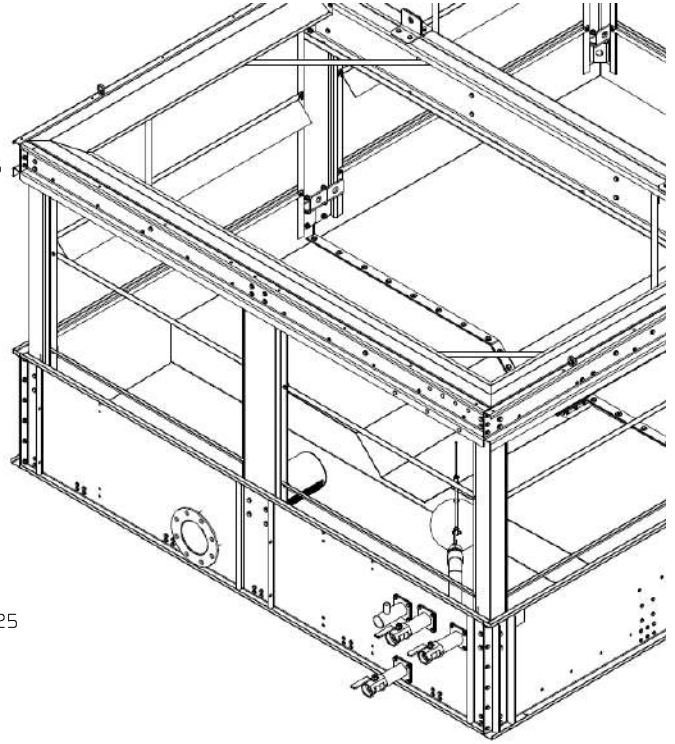
HEX BOLT  
M6x1.25x20L  
HEX LOCK NUT  
M6x1.25  
WASHER M6  
SPRING WASHER M6

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

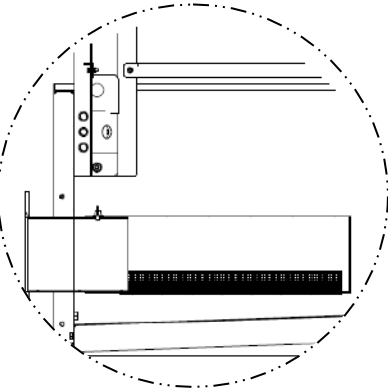
## Step 6 : Piping and Valve Assembly



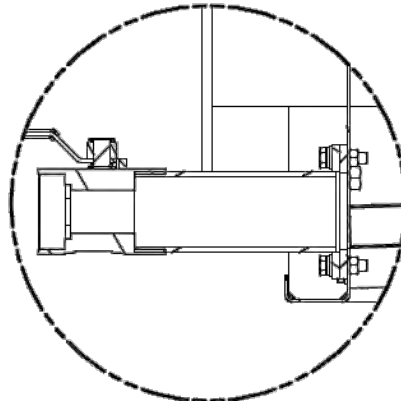
PIPE OVER FLOW  
BOLT M8x1.25x40L  
NR GASKET  
WASHER FOR M8  
HEX.LOCK NUT M8X1.25



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



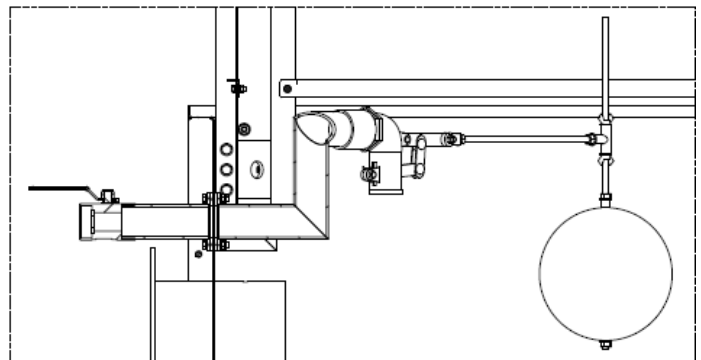
PIPE WITH STRAINER  
WING SCREW - M8 x 12  
WASHER



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

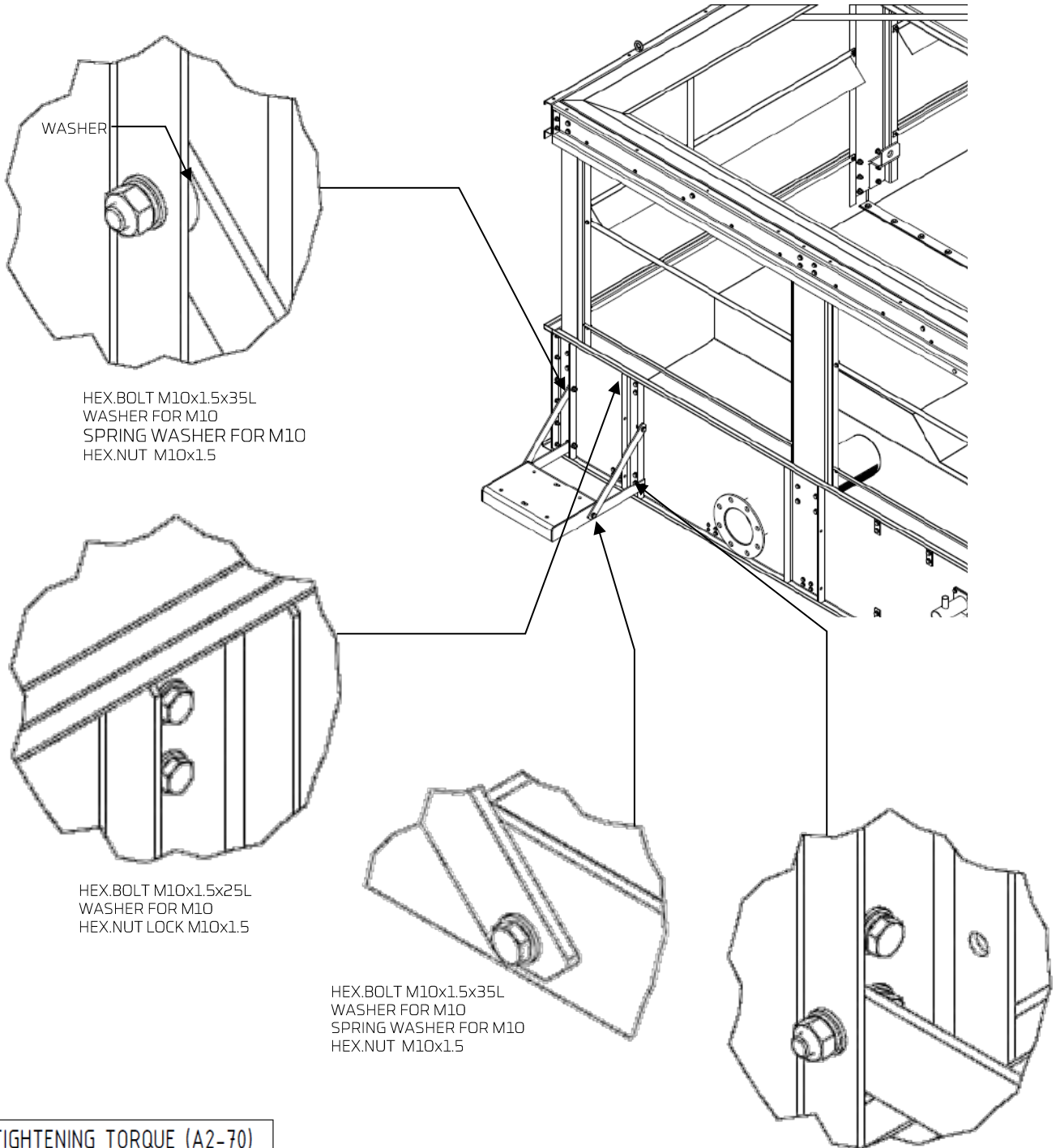
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

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



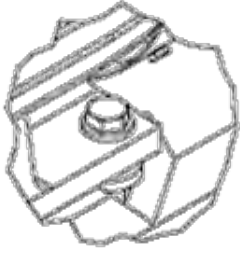


## Step 7 : Water Pump Base Assembly

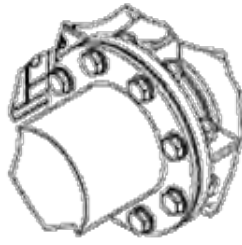


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

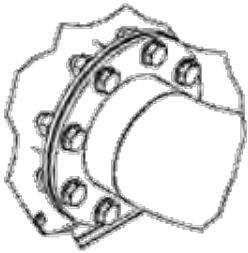
## Step 8: Water Pump pipe Assembly



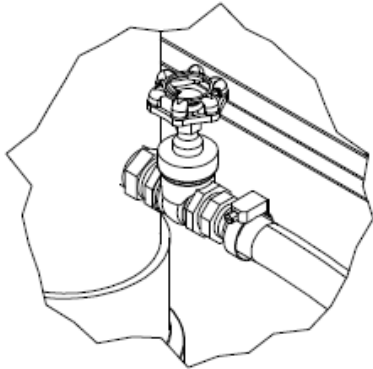
HEX NUT M12x1.75  
 SPRING WASHER FOR M12  
 WASHER FOR M12  
 HEX BOLT M12x1.75x50L



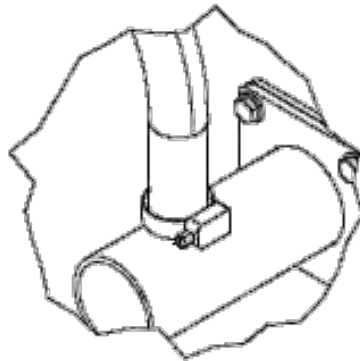
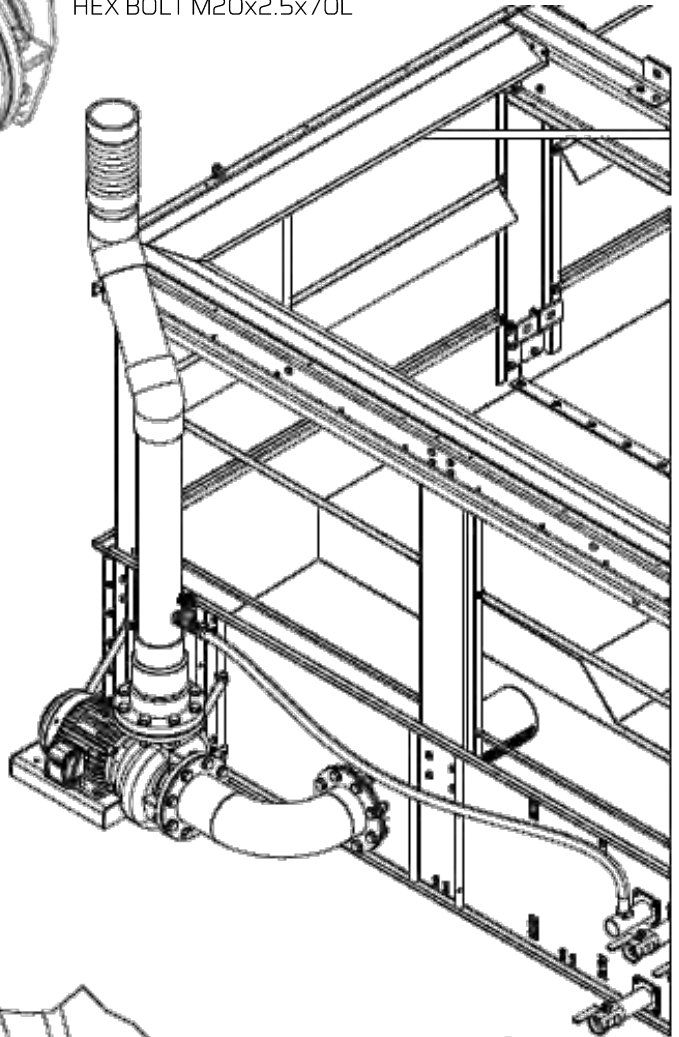
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x70L



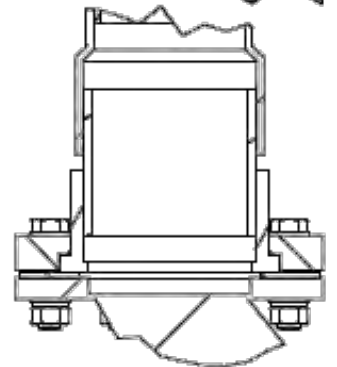
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x60L



HOSE CLAMP 1"  
 TEXTILE HOSE 1"



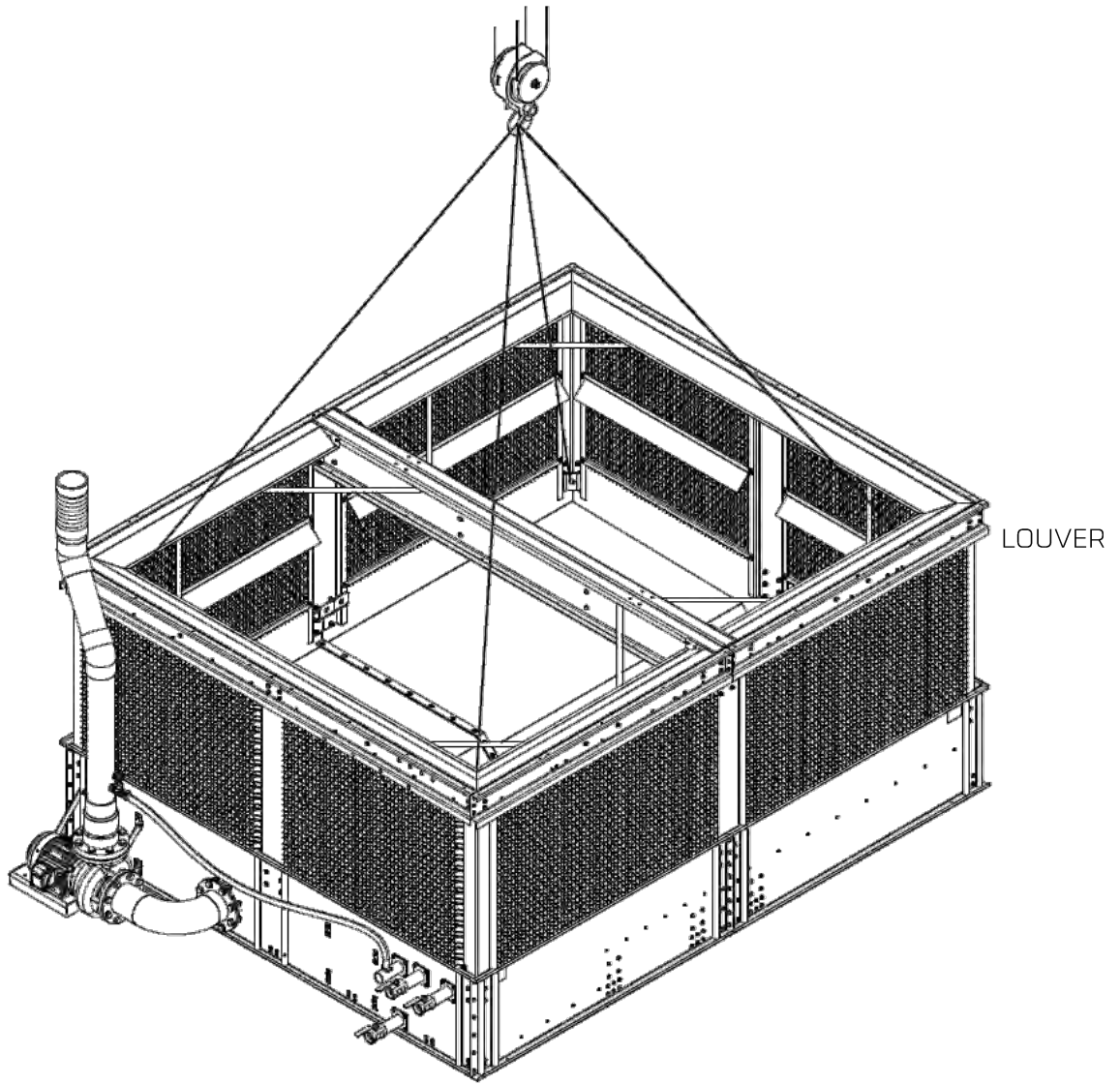
HOSE CLAMP 1"  
 TEXTILE HOSE 1"



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

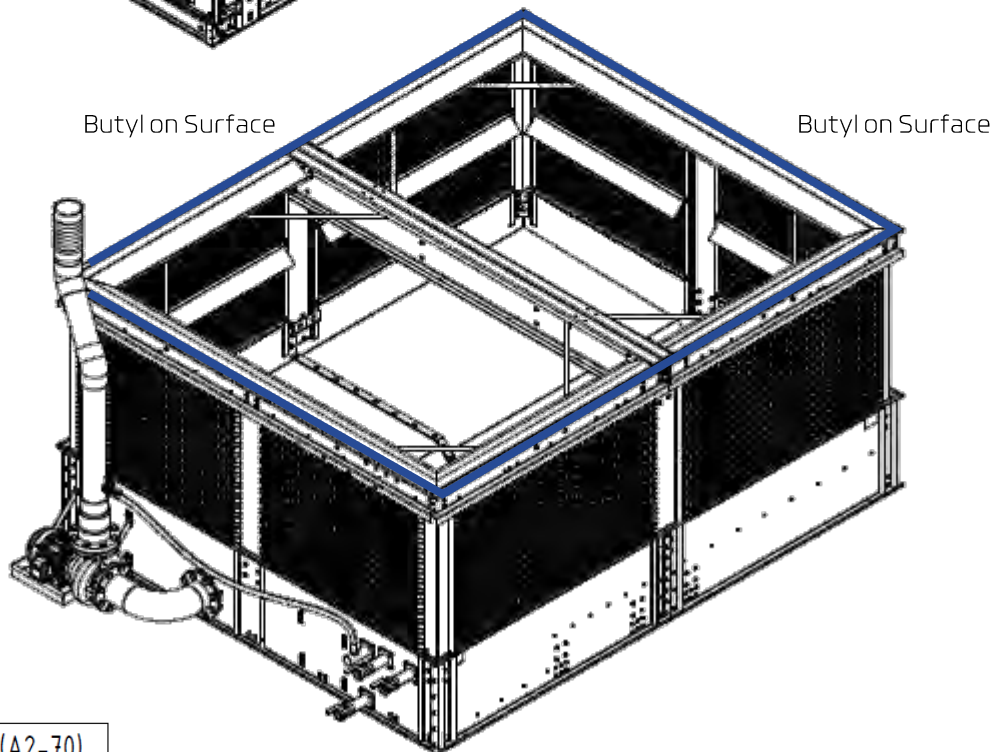
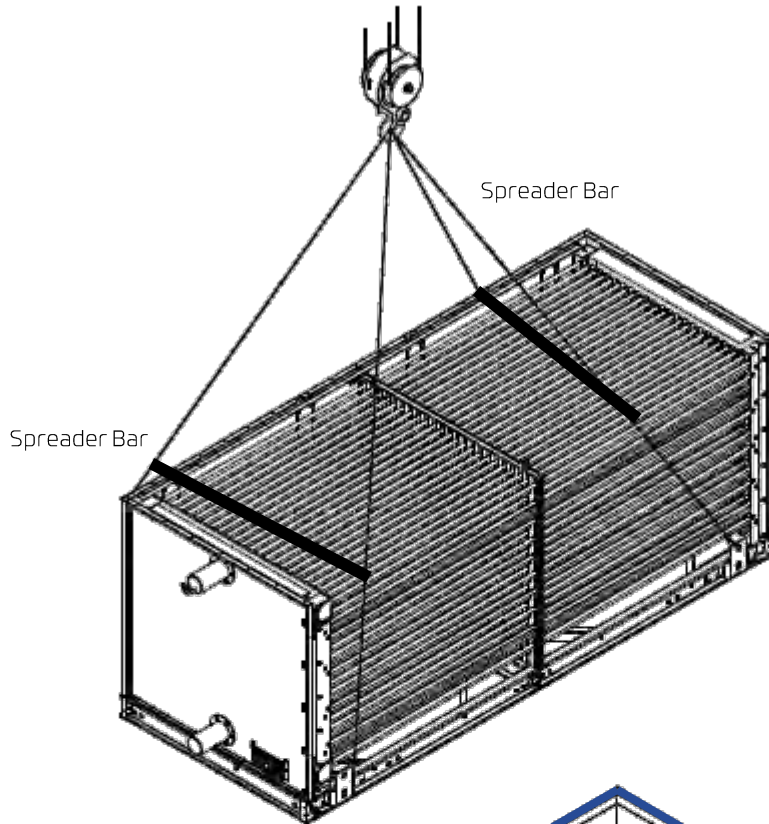
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 9: Move Assembled Basin to Position



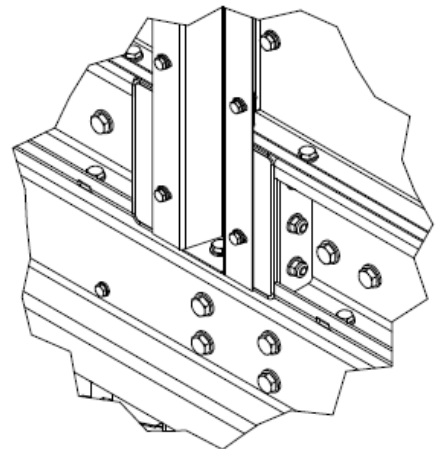
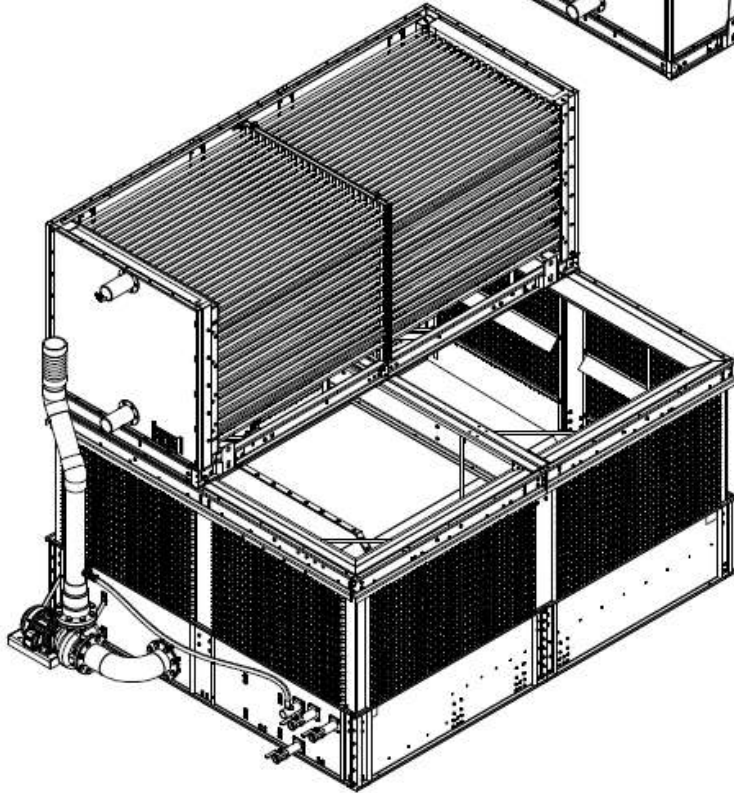
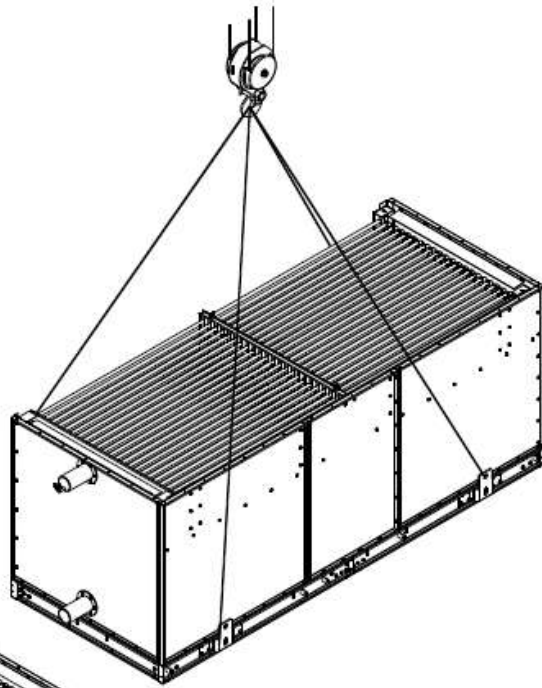
### TIGHTENING TORQUE (A2-70)

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



### TIGHTENING TORQUE (A2-70)

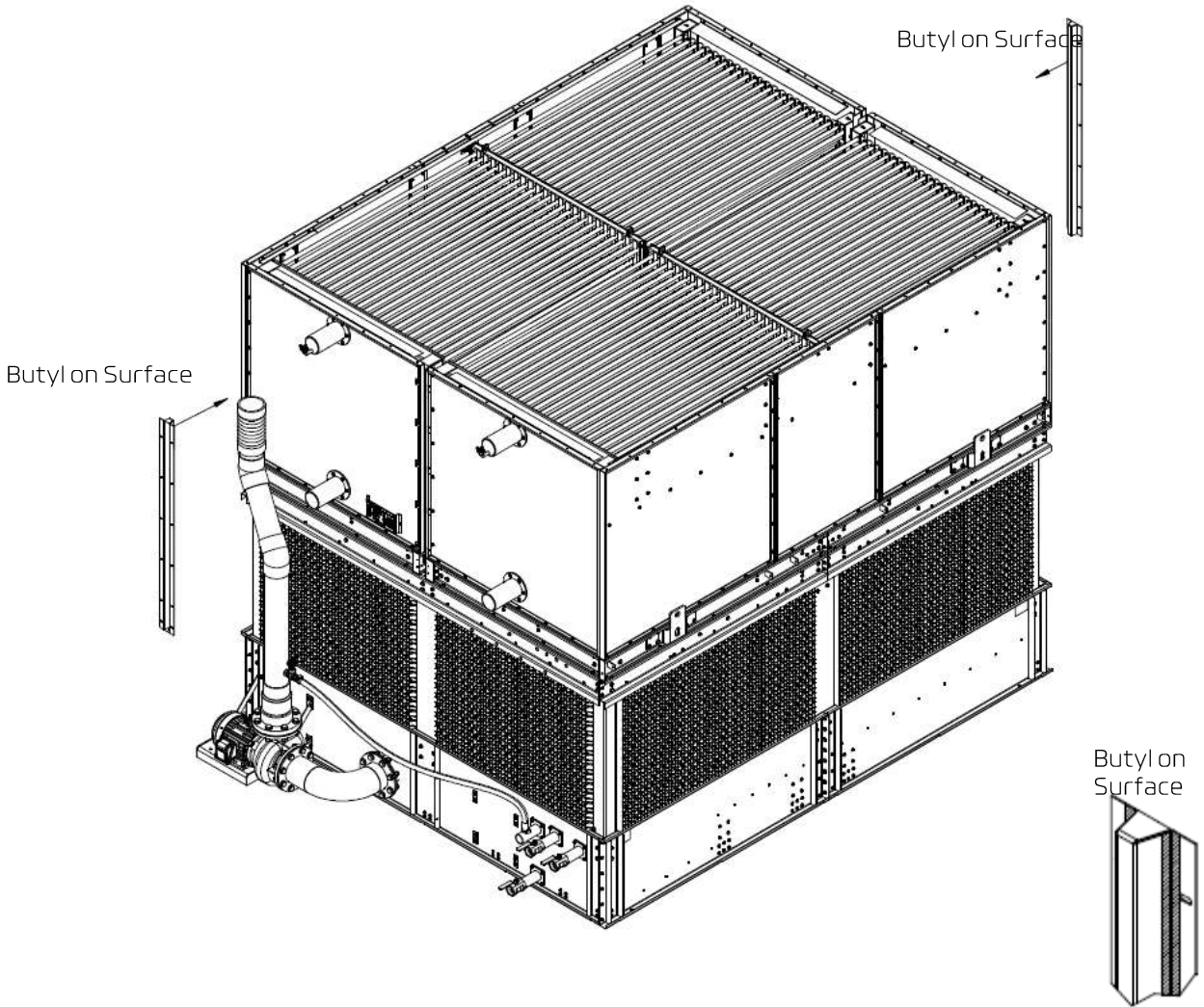
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



### TIGHTENING TORQUE (A2-70)

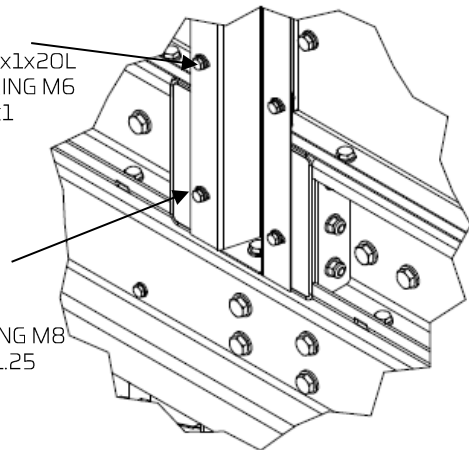
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

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

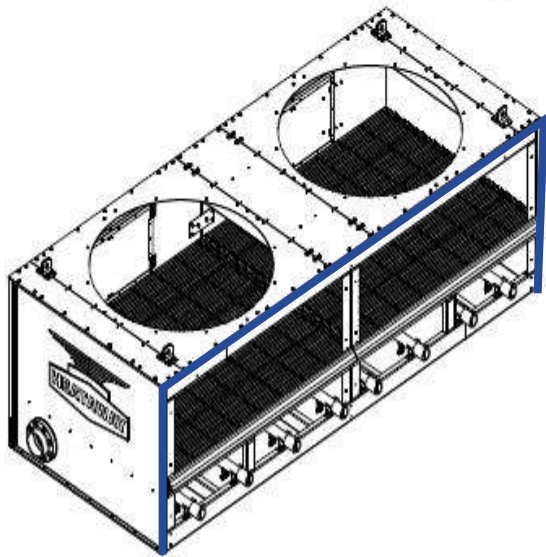
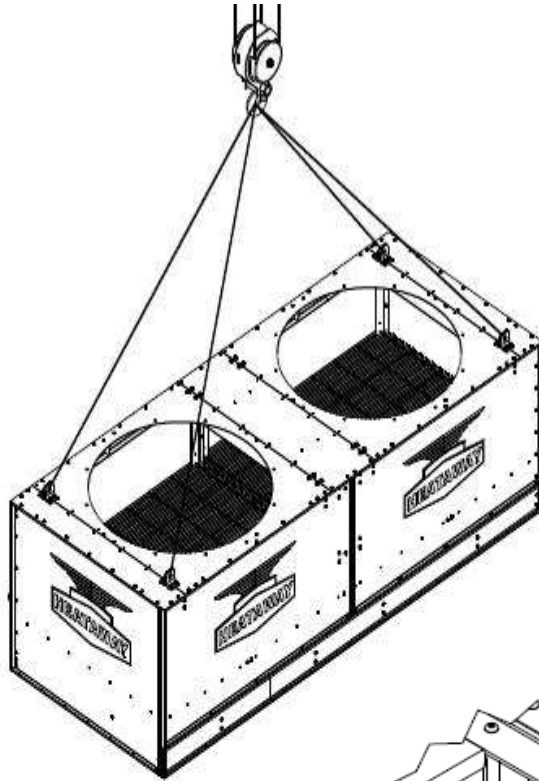


HEX BOLT M6x1x20L  
 WASHER SPRING M6  
 HEX NUT M6x1  
 WASHER M6

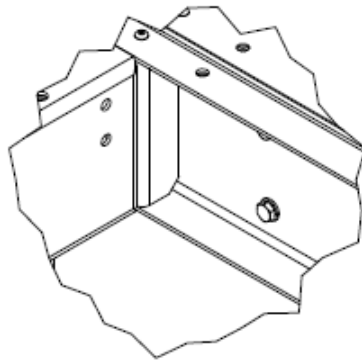
HEX BOLT  
 M8x1.25x25L  
 WASHER SPRING M8  
 HEX NUT M8x1.25  
 WASHER M8



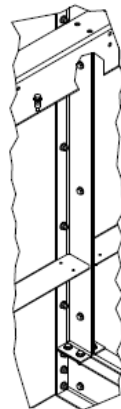
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



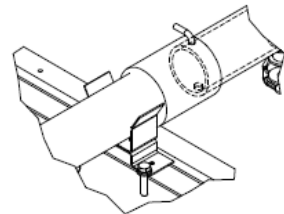
Butyl on Surface



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

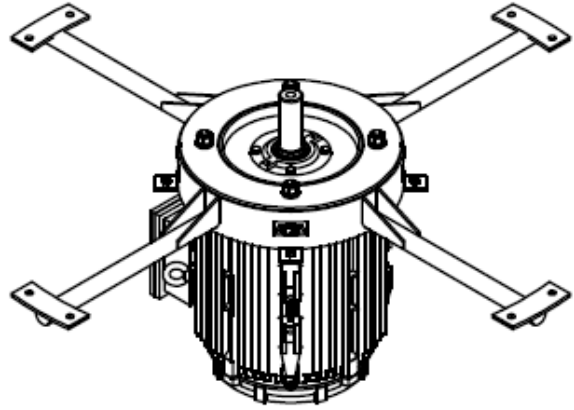
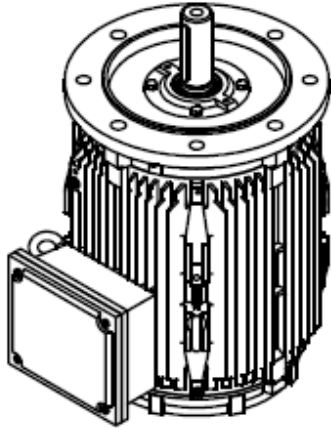


HEX BOLT  
M8x1.25x25L  
WASHER SPRING M8  
HEX NUT M8x1.25  
WASHER M8

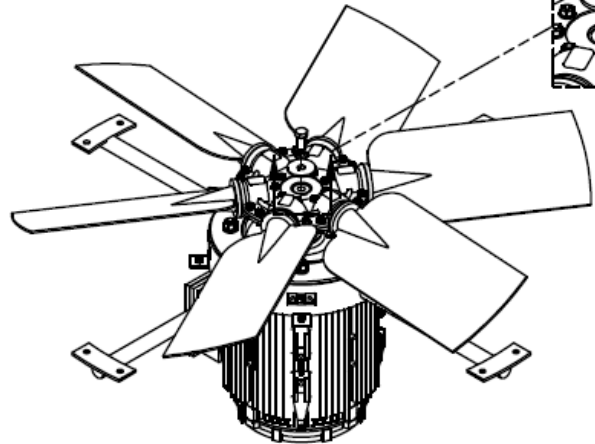
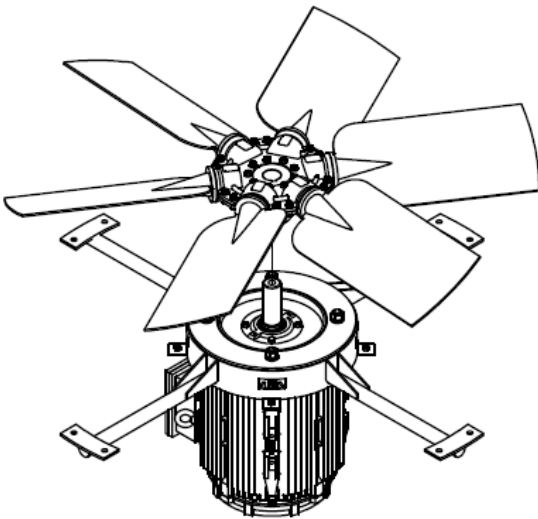
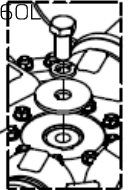


## TIGHTENING TORQUE (A2-70)

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



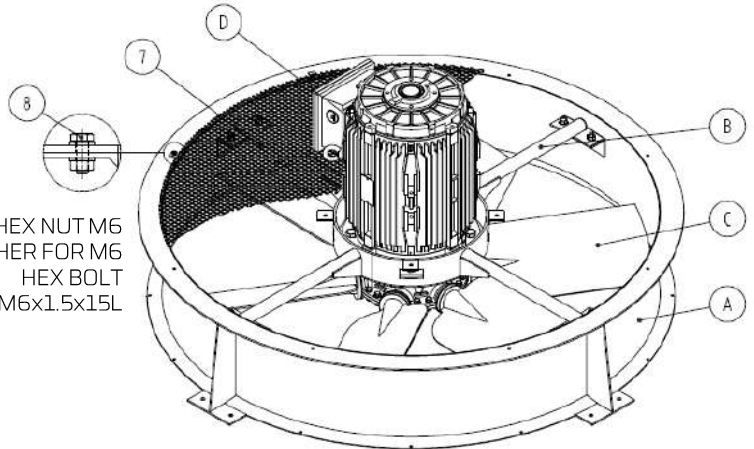
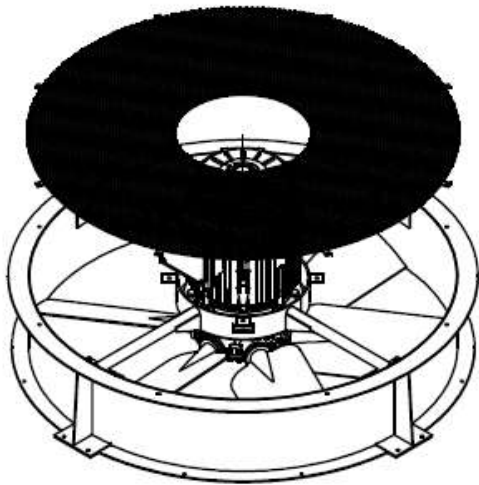
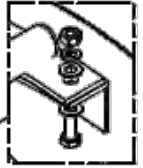
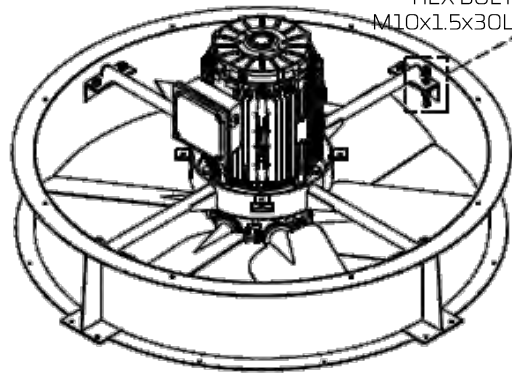
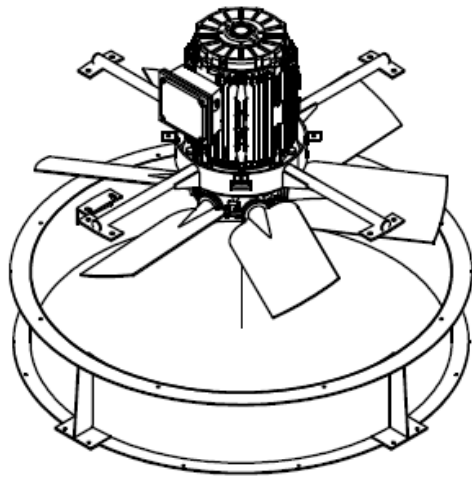
HEX NUT M16  
 SPRING WASHER FOR  
 M16  
 WASHER FOR M16  
 HEX BOLT  
 M16x1.5x60



### TIGHTENING TORQUE (A2-70)

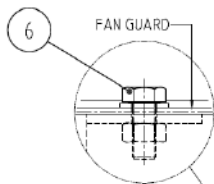
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0





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

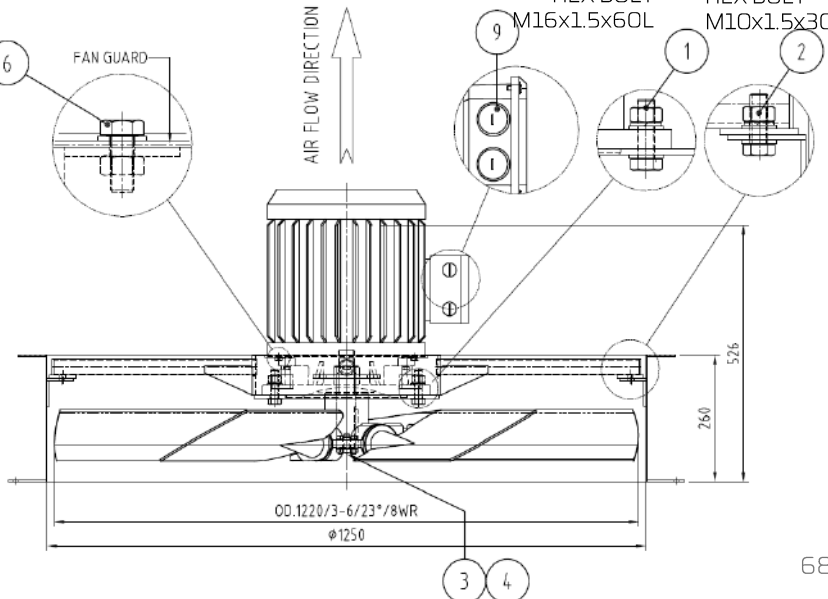
HEX NUT M8  
WASHER FOR M8  
HEX BOLT  
M8x1.5x15L



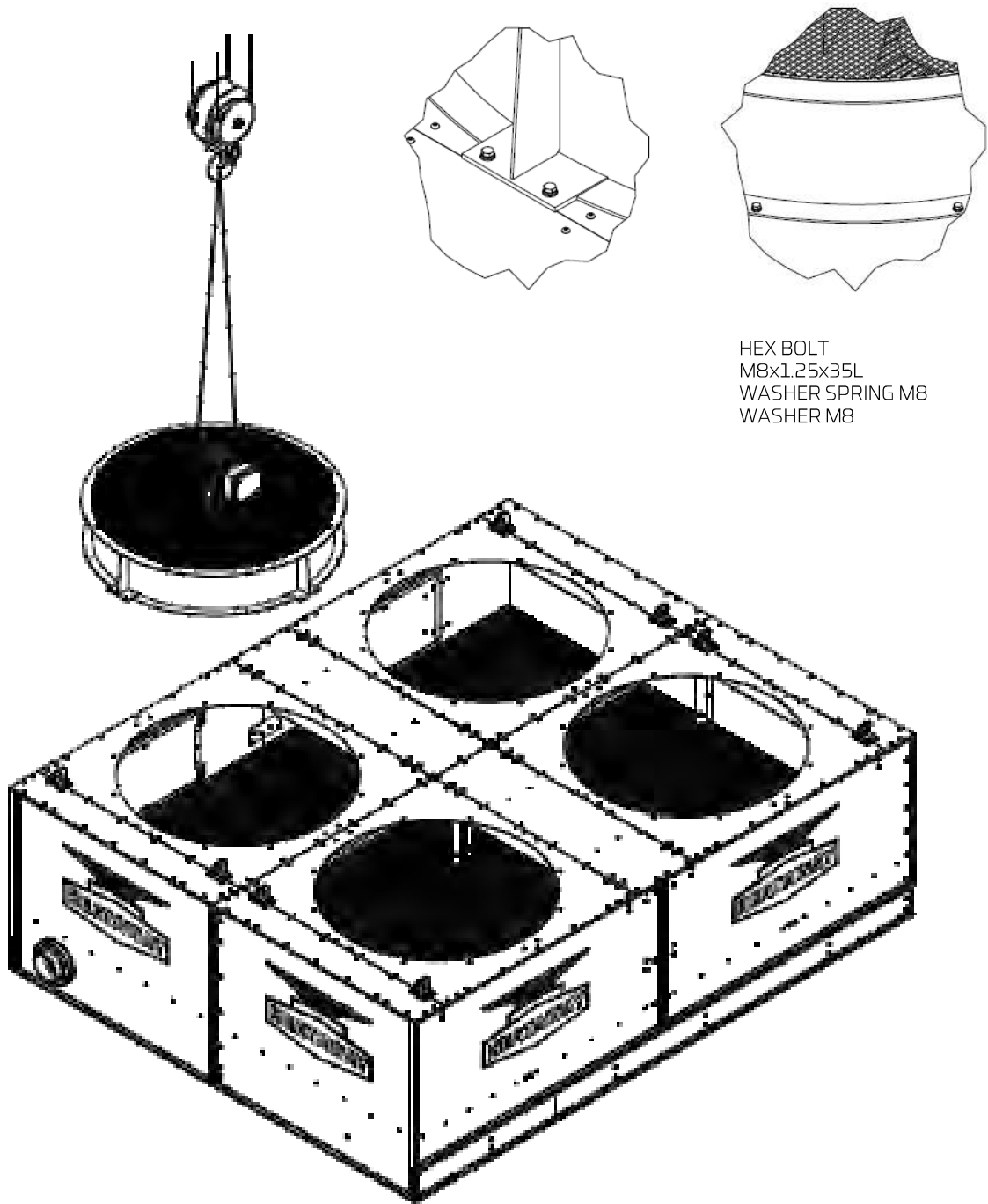
HEX NUT M16  
SPRING WASHER FOR  
M16  
WASHER FOR M16  
HEX BOLT  
M16x1.5x60L

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

AIR FLOW DIRECTION

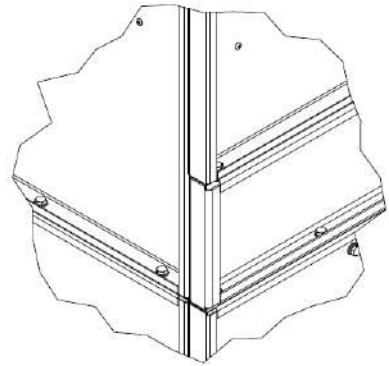
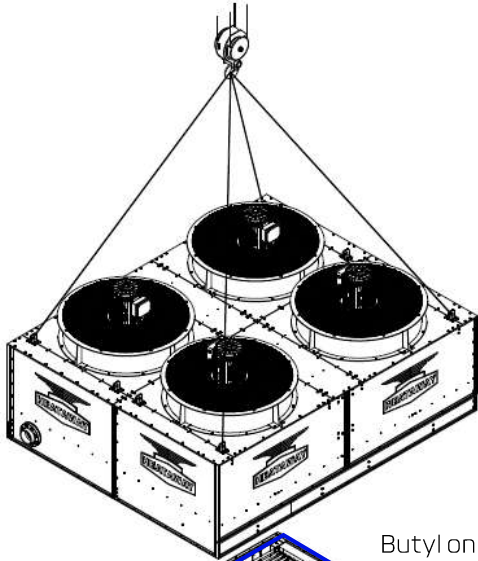


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



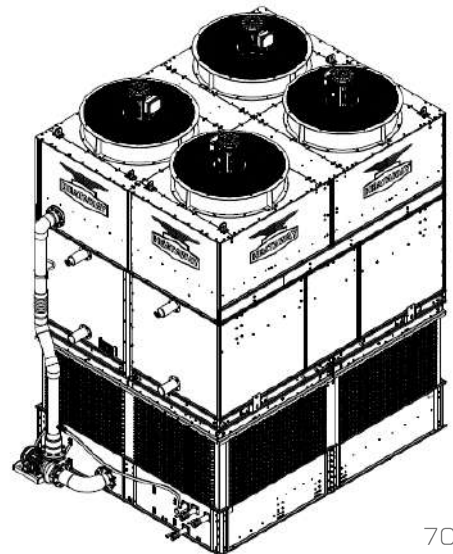
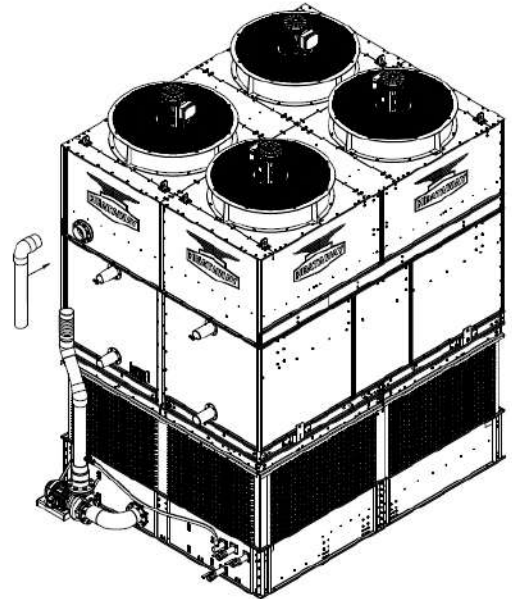
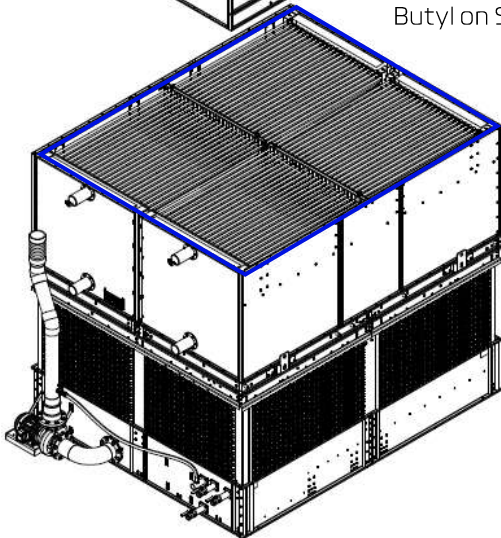
### TIGHTENING TORQUE (A2-70)

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  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

Footprint

# 10' X 18'

Model

EC9-2250-1018C-S

EC9-2450-1018C-M

EC9-2550-1018C-S

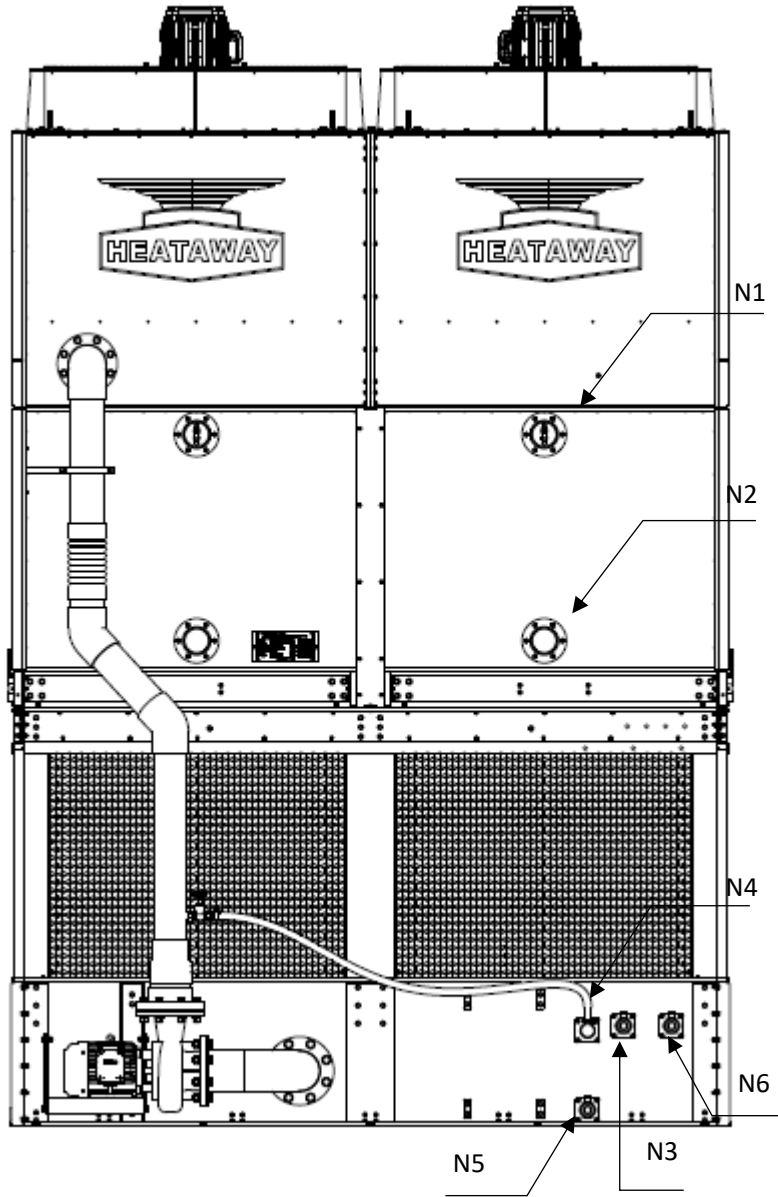
EC9-2790-1018C-M

EC9-2960-1018C-L

EC9-3000-1018C-M

EC9-3200-1018C-L

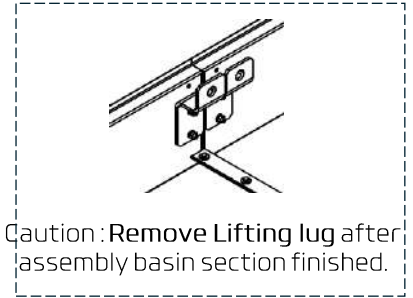
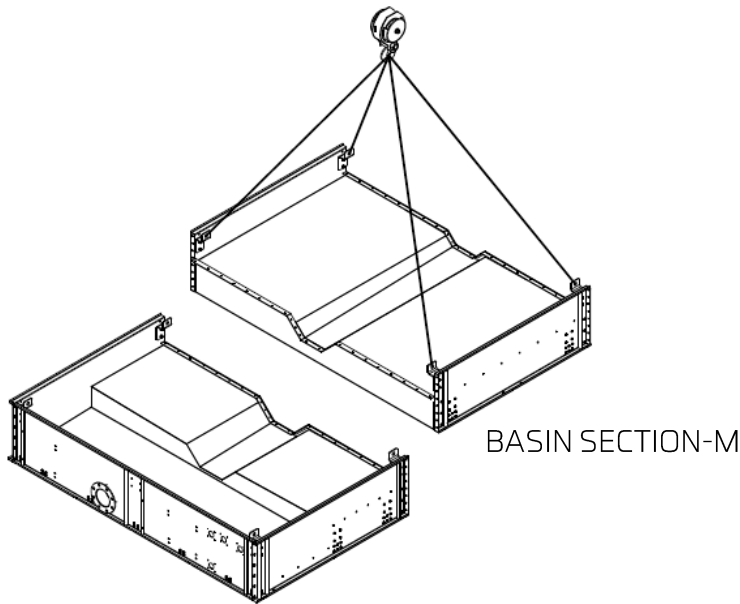




PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

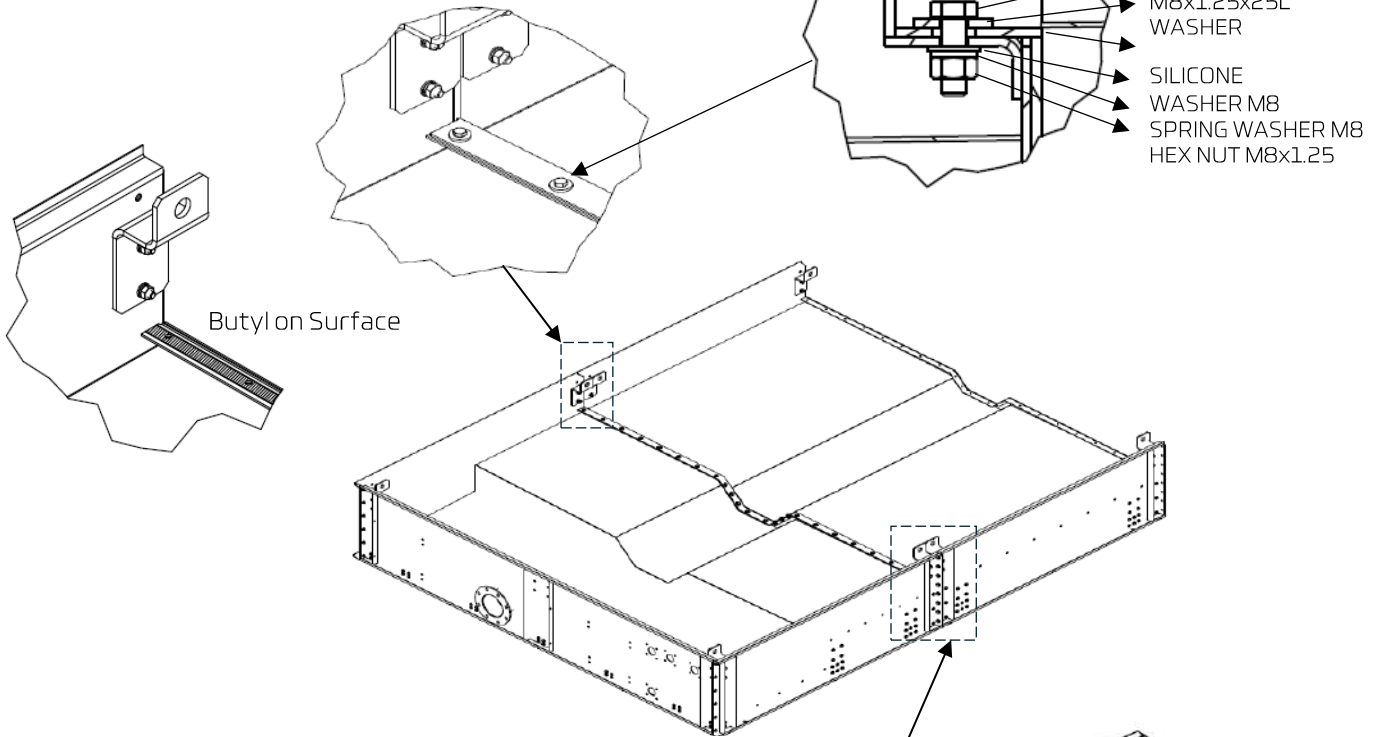
# Basin Section Assembly

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

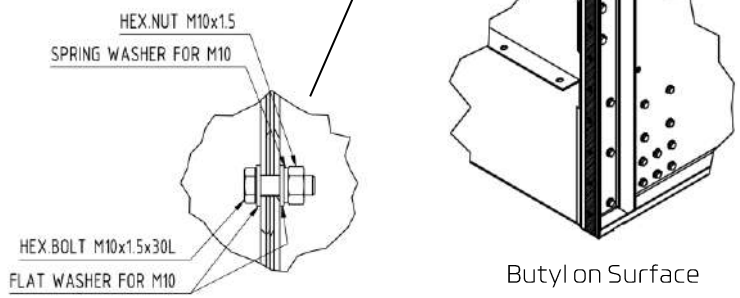


BASIN SECTION-F

BASIN SECTION-M

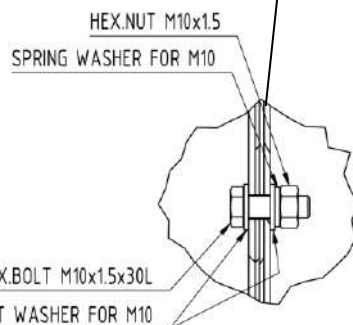
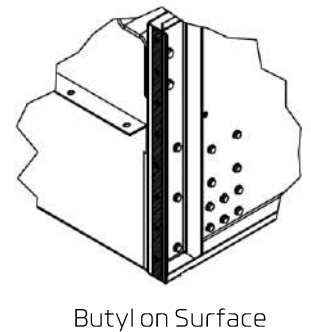
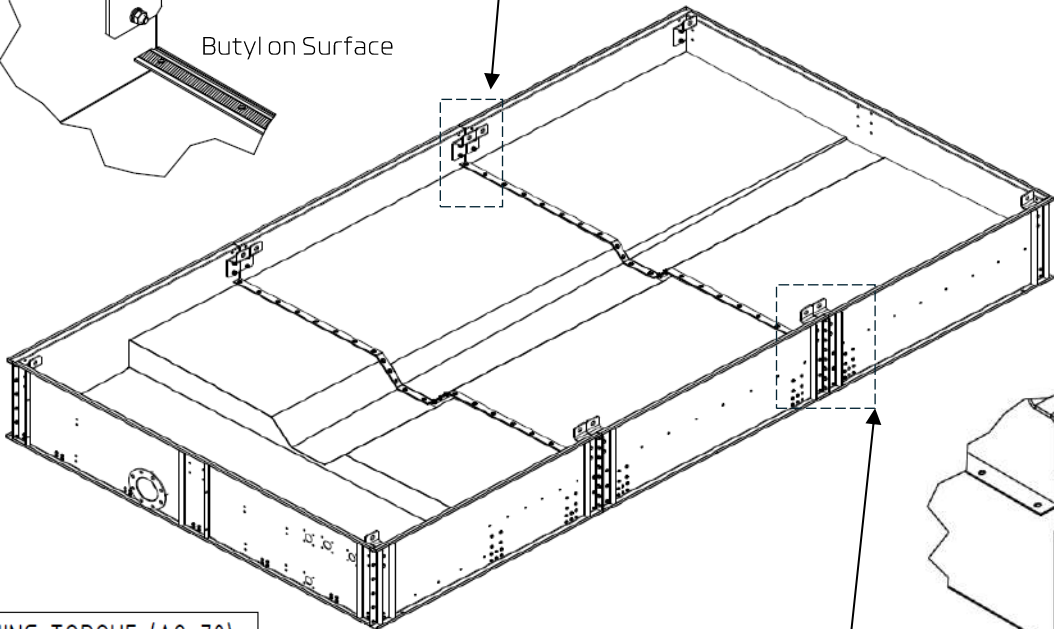
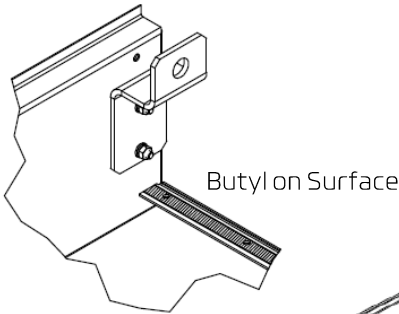
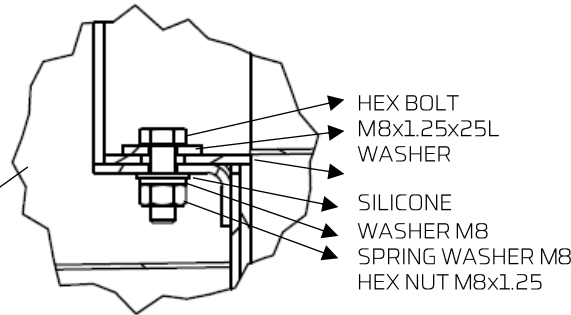
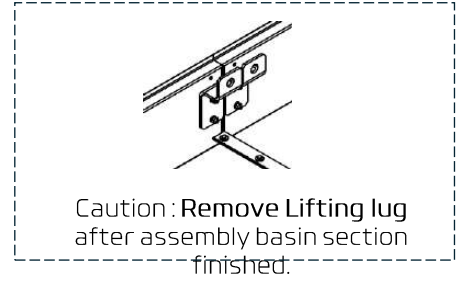
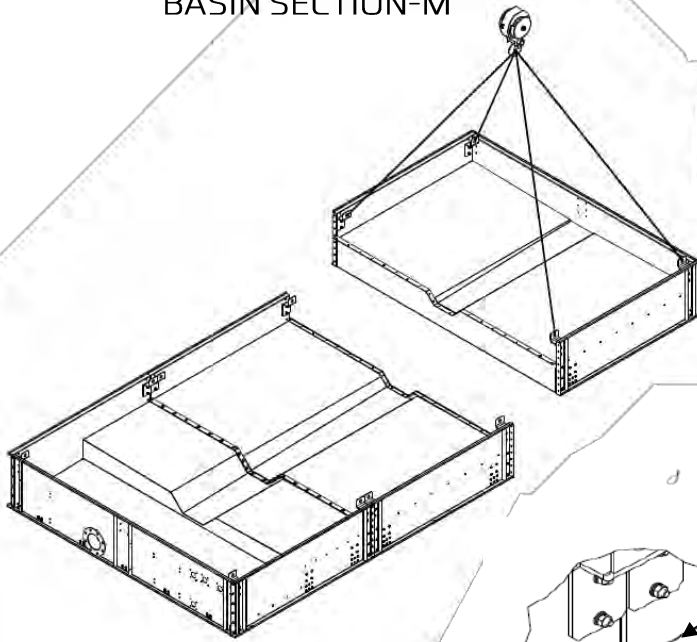


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



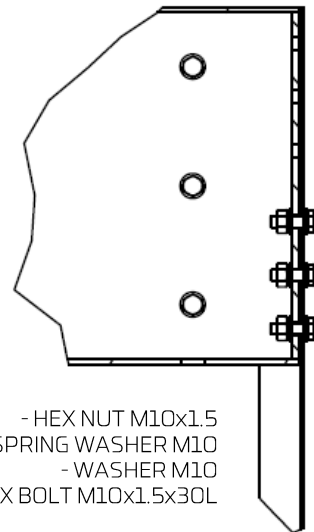
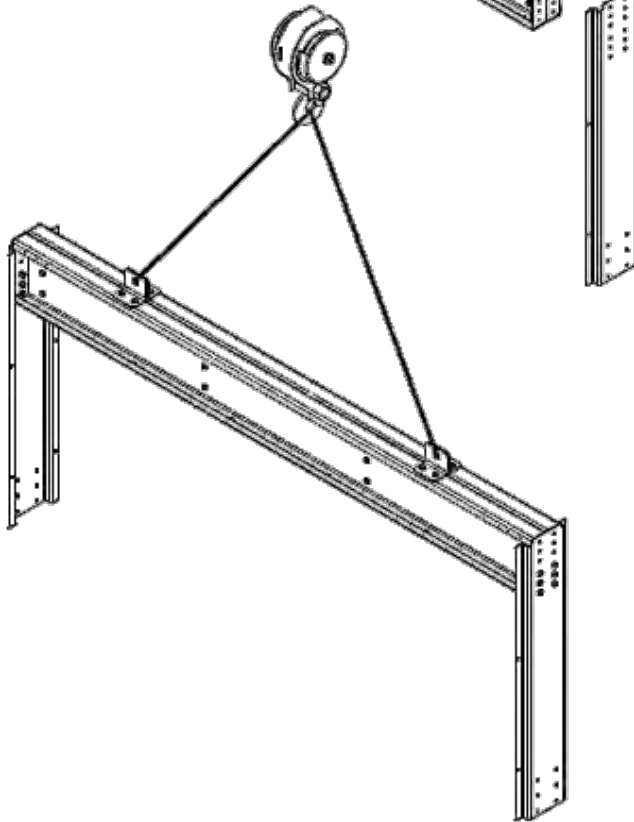
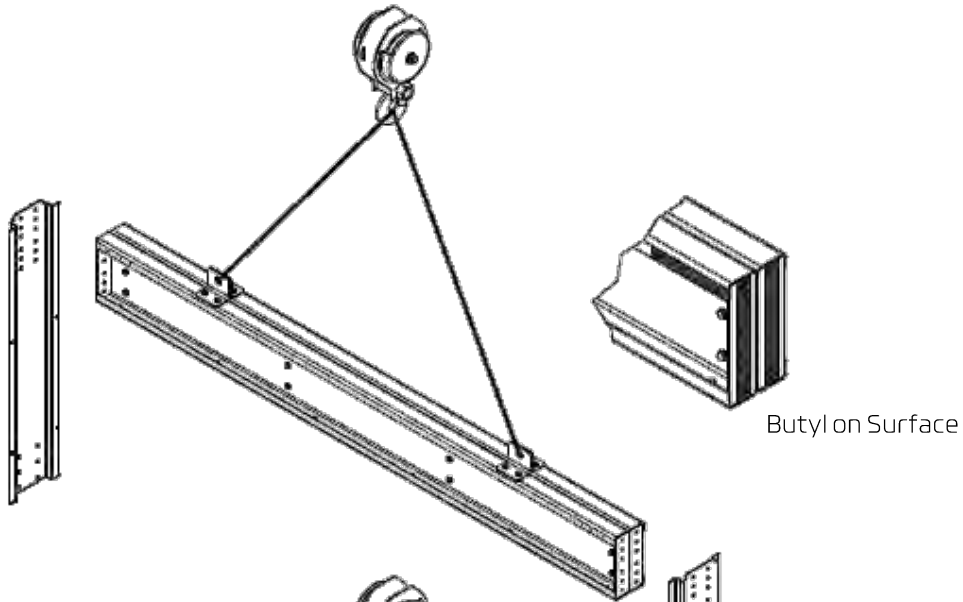
# Basin Section Assembly

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



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

## ► Step 3 : Assembly Support Frame

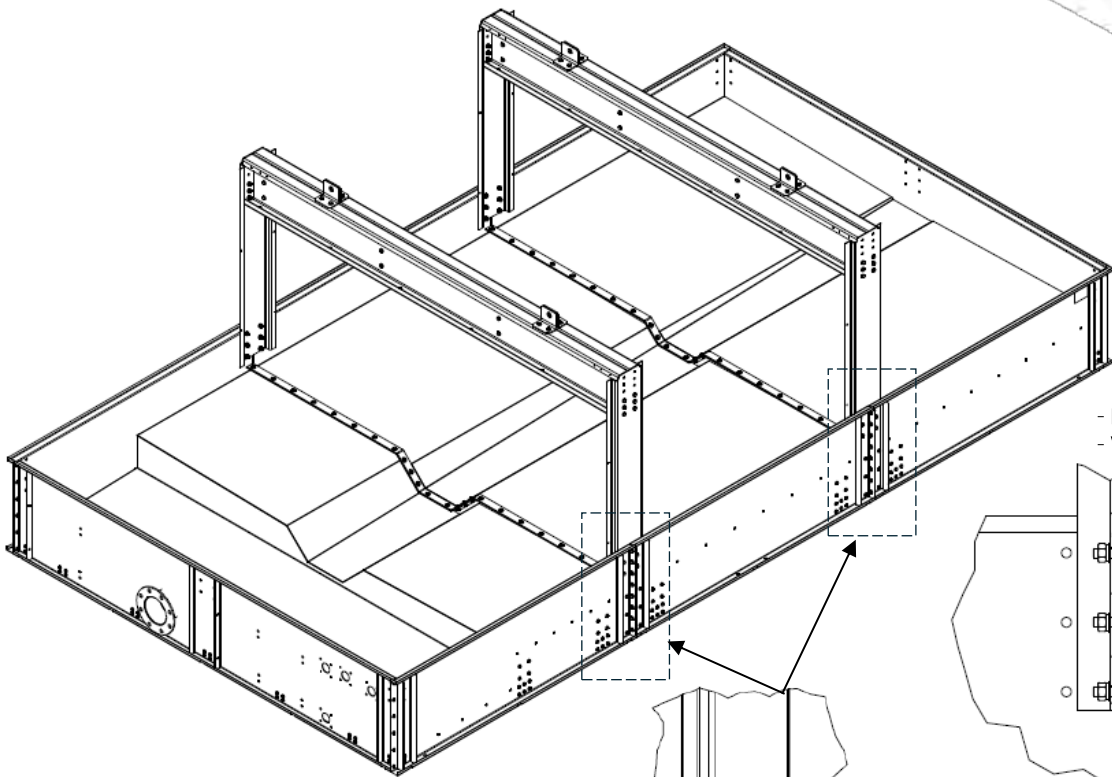
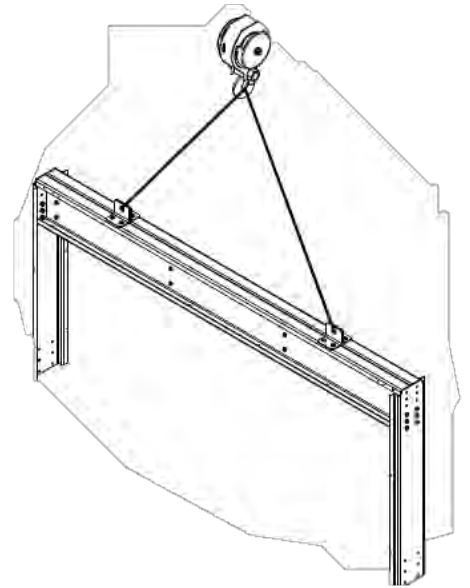
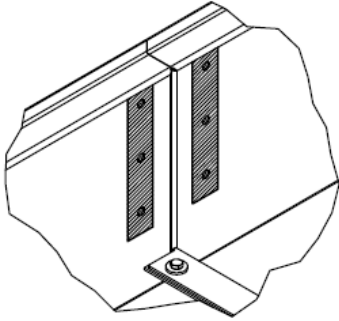


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

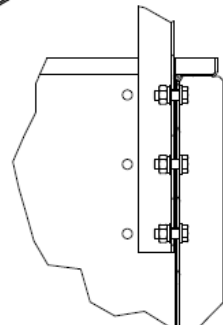


► Step 4: Assembly Frame Support with BASIN Set Assembly

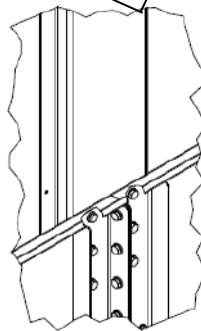
Butyl on Surface



- HEX BOLT M10x1.5x30L  
- WASHER M10

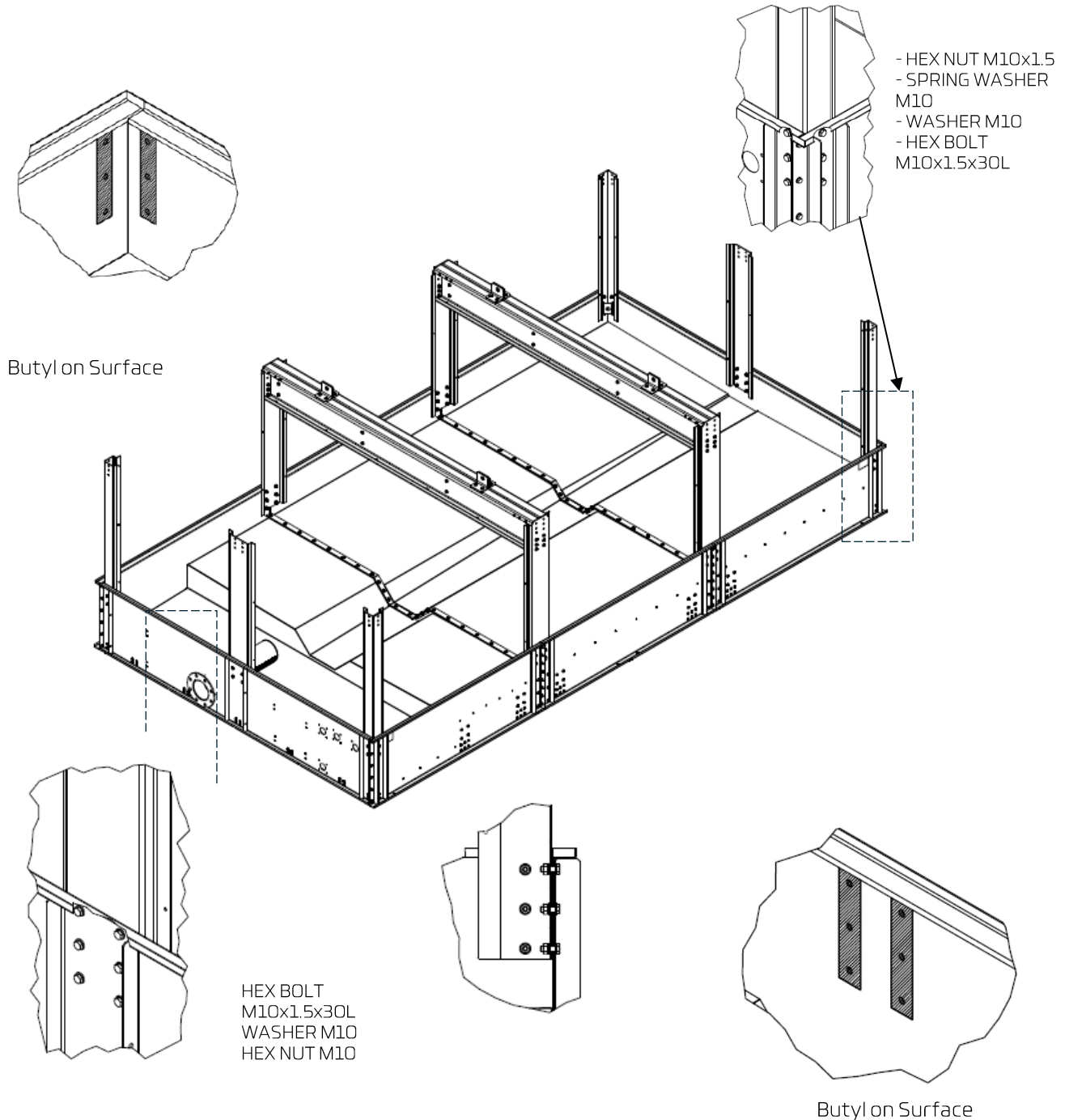


- SPRING WASHER M10  
- HEX NUT M10x1.5



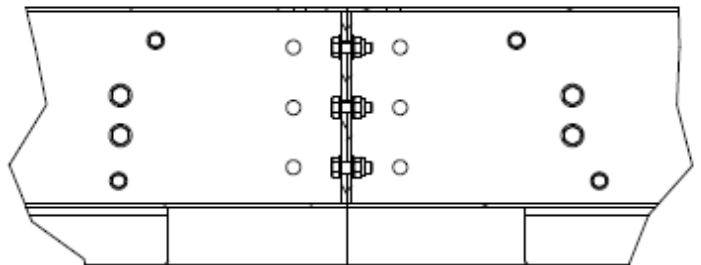
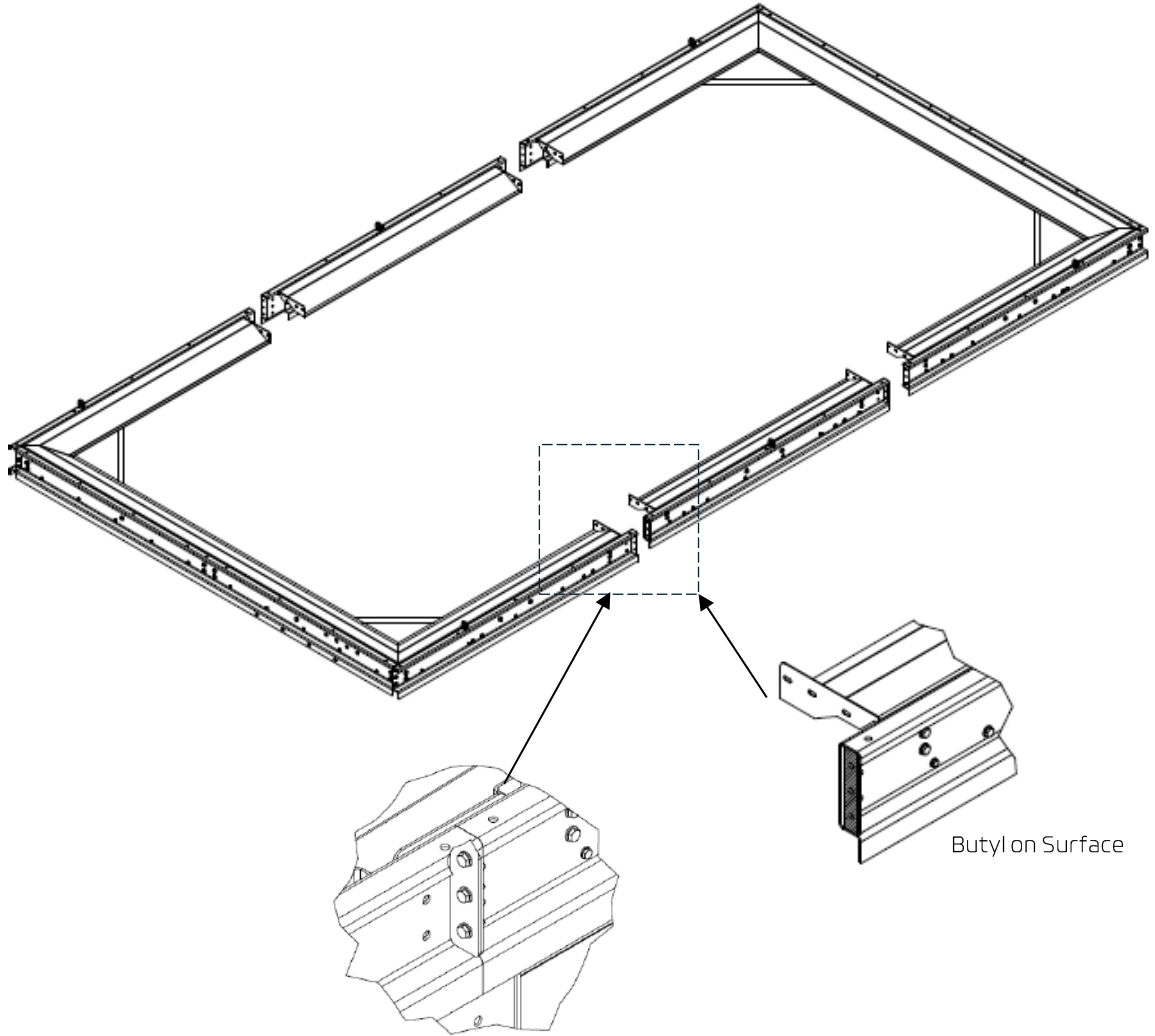
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## ► 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

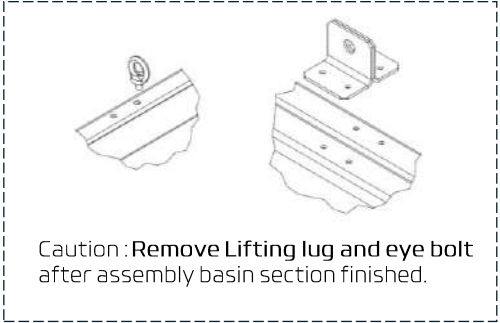
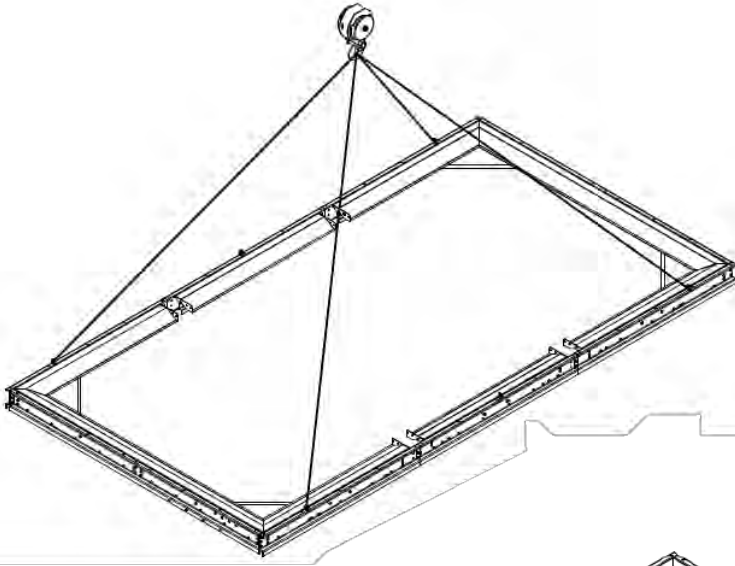
► Step 6 : Assembly Top Frame of BASIN SECTION



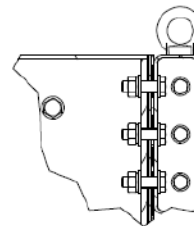
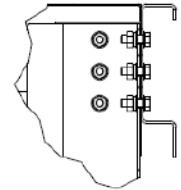
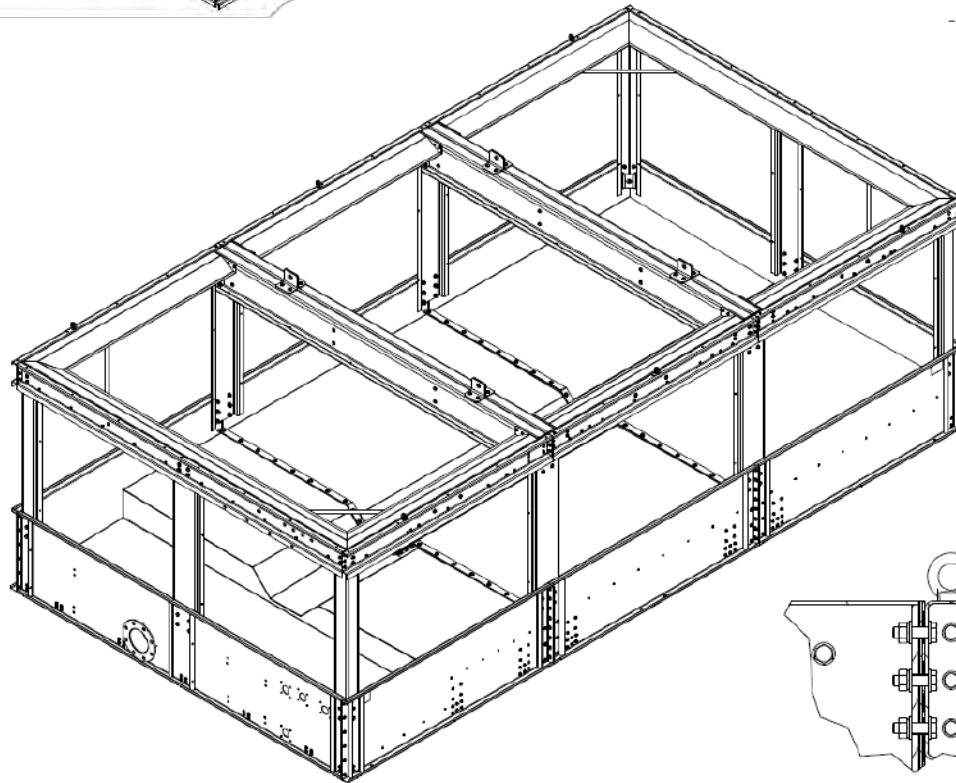
HEX BOLT  
M8x1.25x25L  
WASHER M8  
HEX.LOCK NUT  
M8x1.25

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

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



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



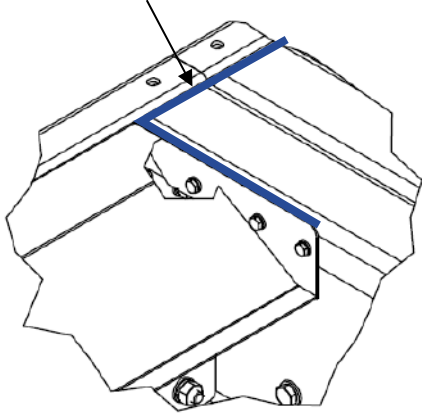
- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x35L

TIGHTENING TORQUE (A2-70)

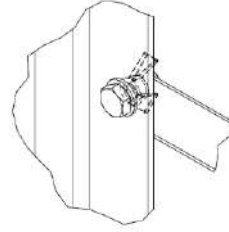
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## ► Step 8 : Assembly support frame and Deflector

SILICONE ON SURFACE

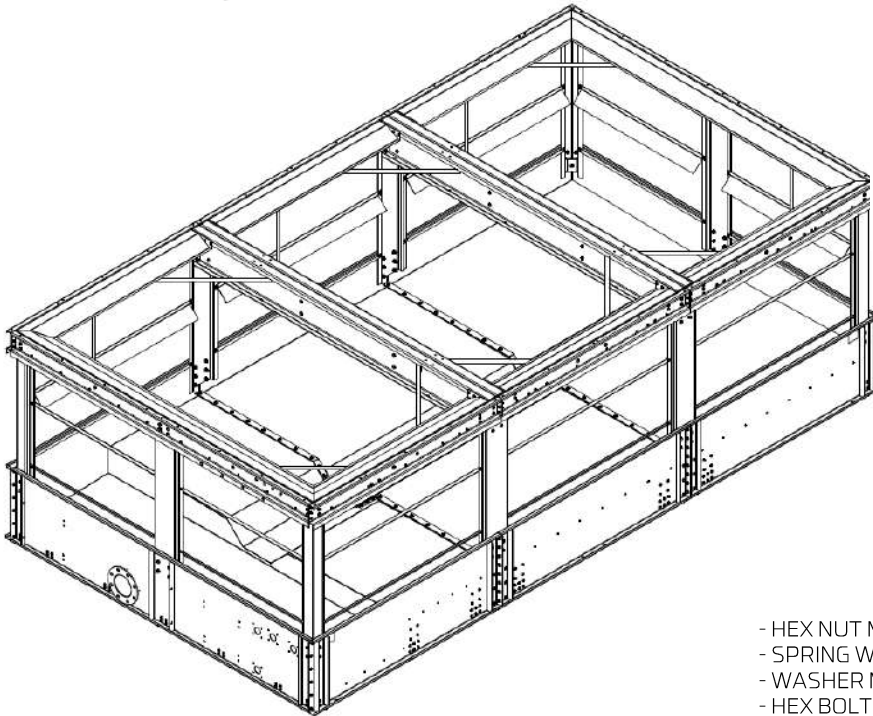
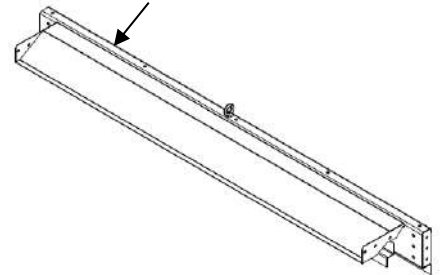


- HEX NUT M6x1
- SPRING WASHER M6
- WASHER M6
- HEX BOLT M6x1x20L

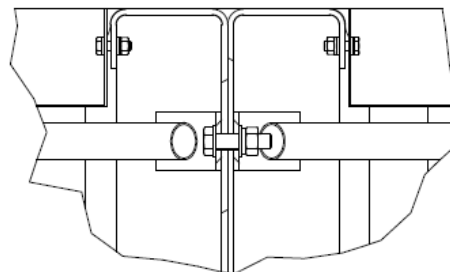


- LIIFTING EYE BOLT  
M10x1.5x17L
- WASHER FOR M10
- HEX NUT M10x1.5

SILICONE AND BUTYL ON SURFACE



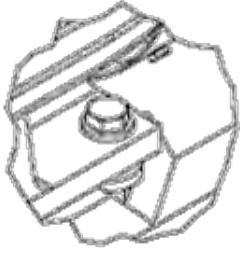
- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x30L



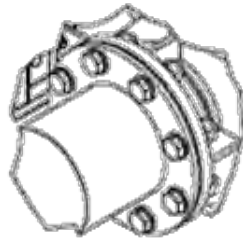
### TIGHTENING TORQUE (A2-70)

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

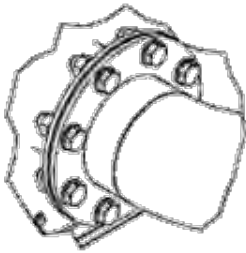
➤ Step 9 : Install water pipe and Ball Float Valve to BASIN SECTION



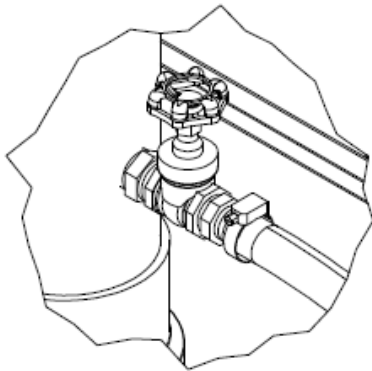
HEX NUT M12x1.75  
SPRING WASHER FOR M12  
WASHER FOR M12  
HEX BOLT M12x1.75x50L



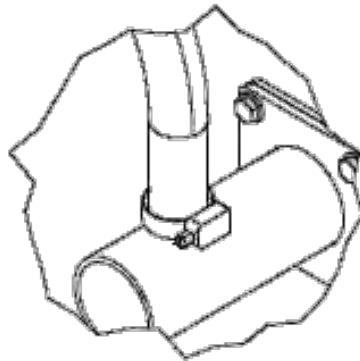
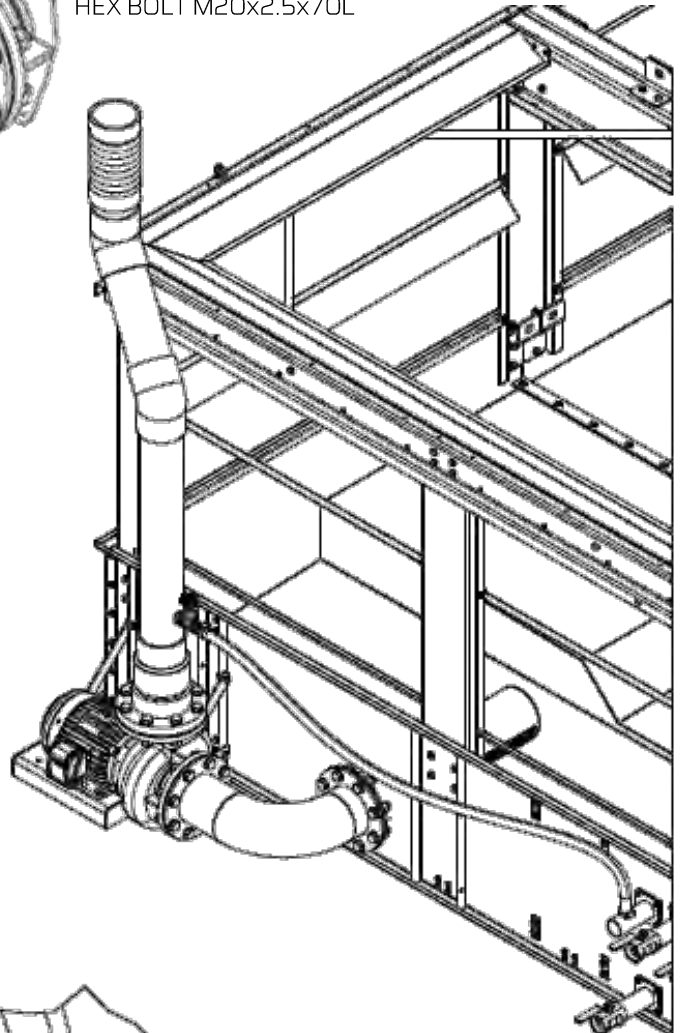
HEX NUT M20x2.5  
SPRING WASHER FOR M20  
WASHER FOR M20  
HEX BOLT M20x2.5x70L



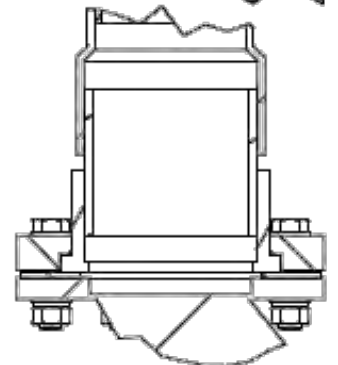
HEX NUT M20x2.5  
SPRING WASHER FOR M20  
WASHER FOR M20  
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"  
TEXTILE HOSE 1"



HOSE CLAMP 1"  
TEXTILE HOSE 1"

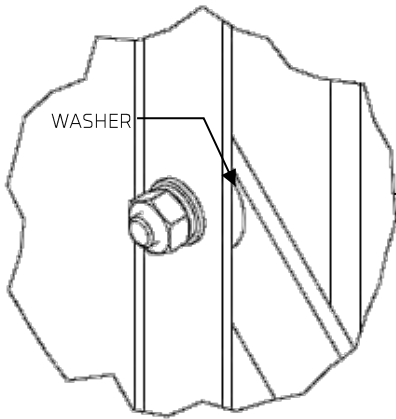


HEX BOLT M20 x90L  
HEX LOCK NUT M20  
WASHER FOR M20  
SPRING WASHER FOR M20

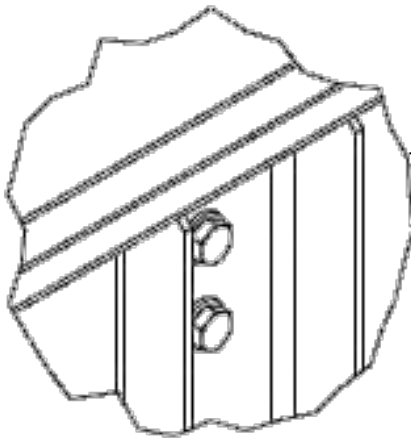
TIGHTENING TORQUE (A2-70)

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

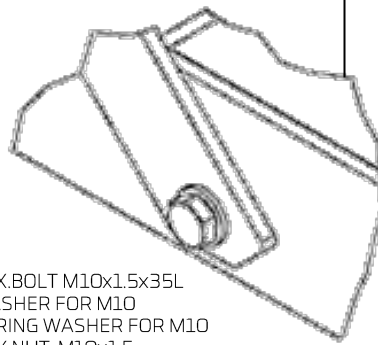
► Step 10 : Pump set assembly and install to BASIN SECTION



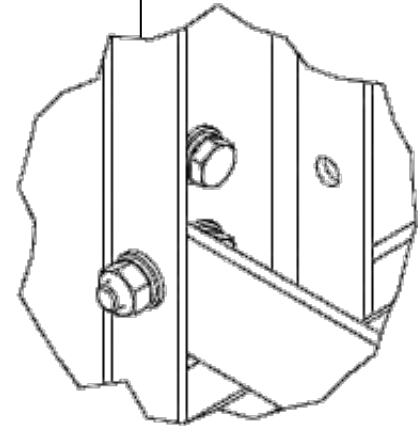
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



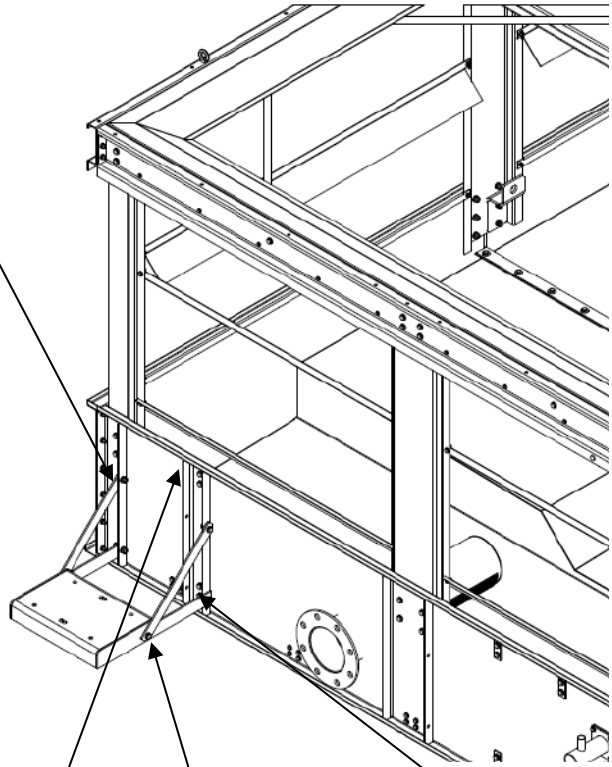
HEX.BOLT M10x1.5x25L  
WASHER FOR M10  
HEX.NUT LOCK M10x1.5



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

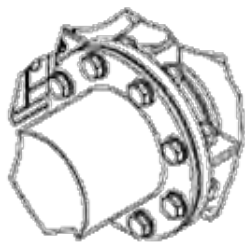
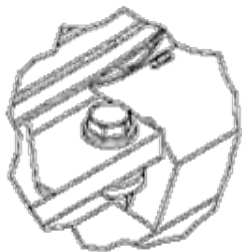


HEX.BOLT M10x1.5x30L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



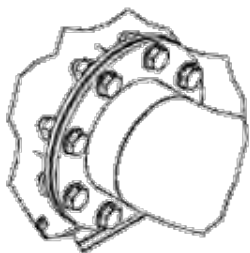
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

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

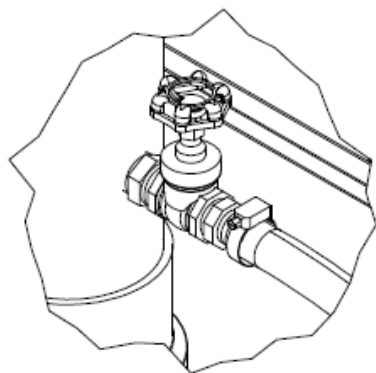
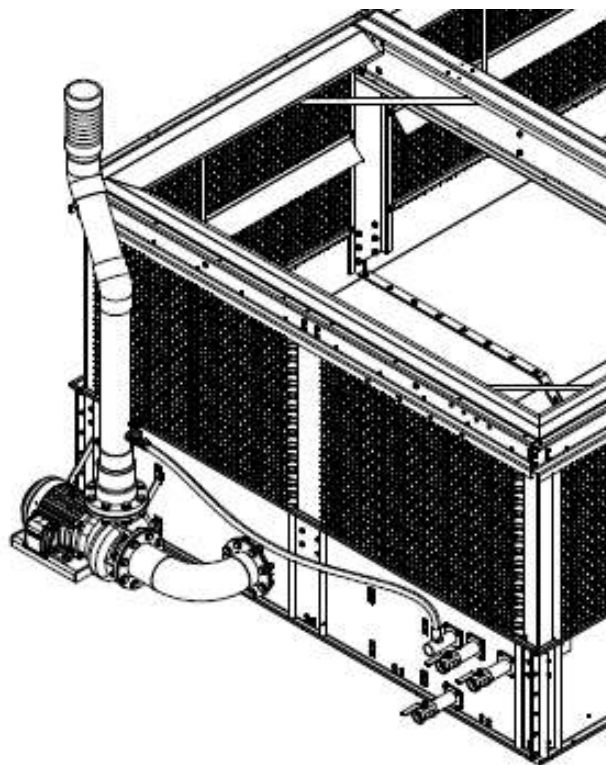


HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x70L

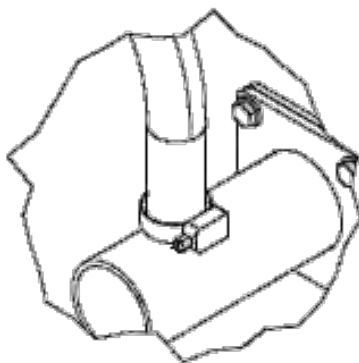
HEX NUT M12x1.75  
 SPRING WASHER FOR M12  
 WASHER FOR M12  
 HEX BOLT M12x1.75x50L



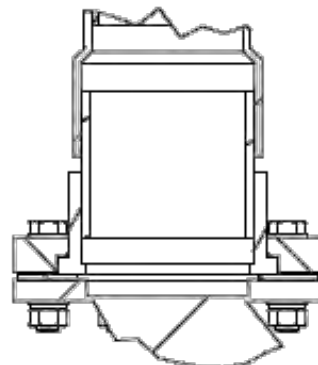
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x60L



HOSE CLAMP 1"  
 TEXTILE HOSE 1"



HOSE CLAMP 1"  
 TEXTILE HOSE 1"



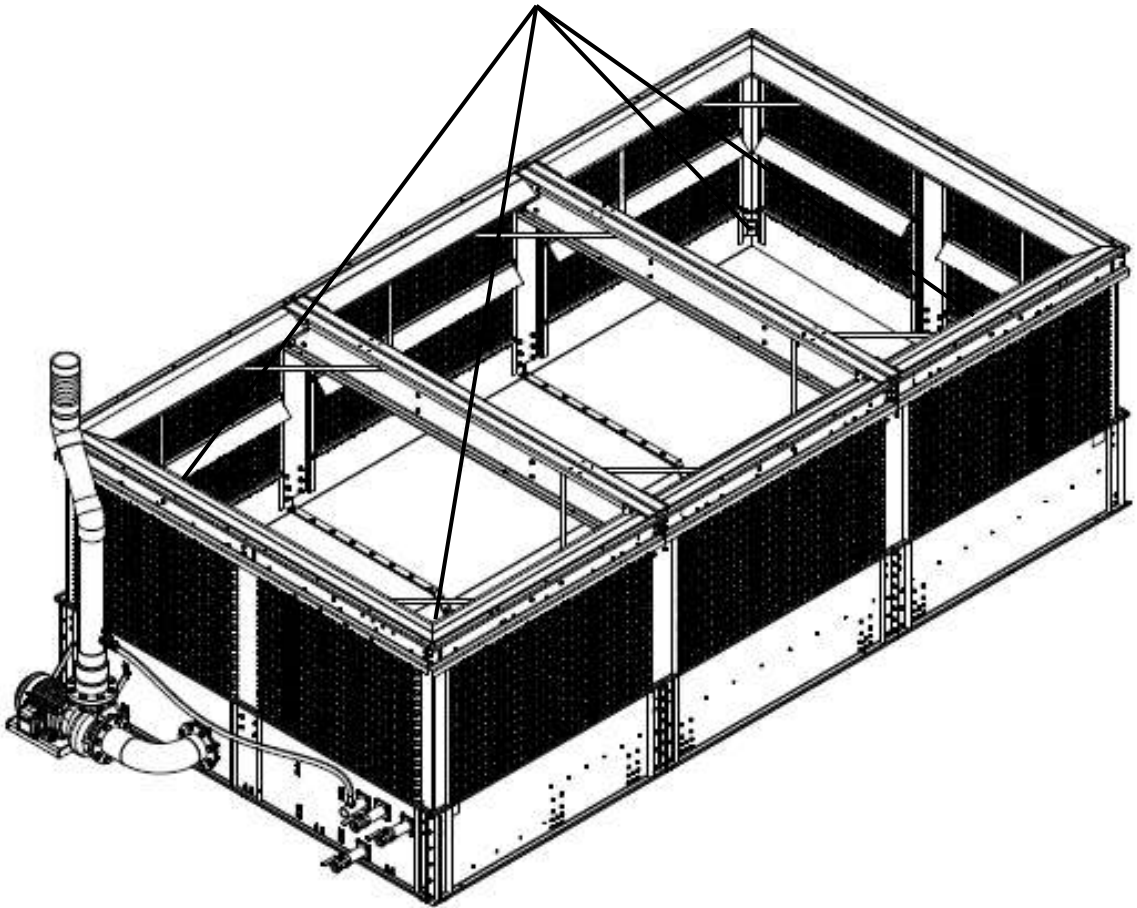
HEX BOLT M20x90L  
 HEX LOCK NUT M20  
 WASHER FOR M20  
 SPRING WASHER FOR M20

TIGHTENING TORQUE (A2-70)

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



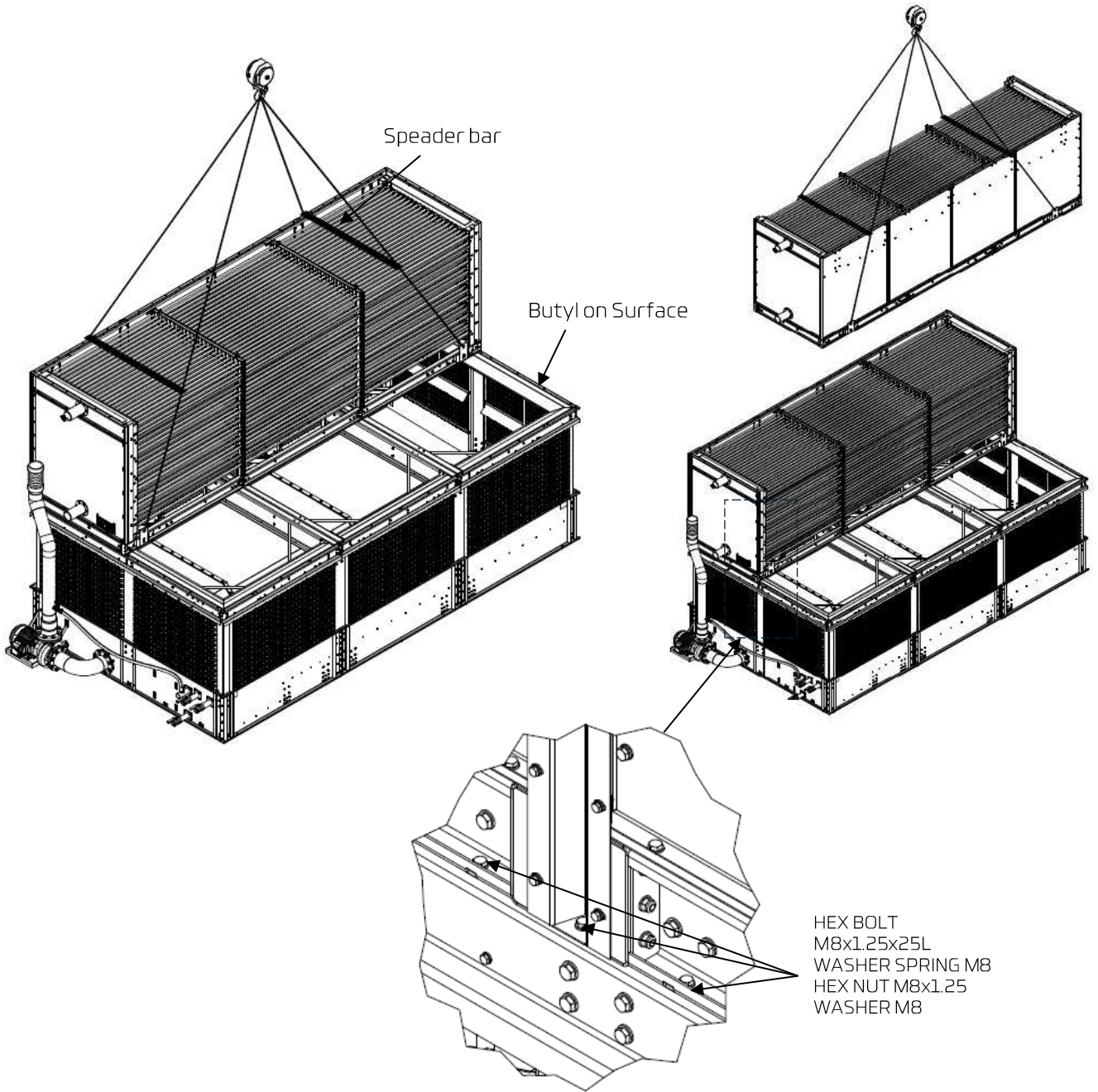
Move BASIN SECTION to position



### TIGHTENING TORQUE (A2-70)

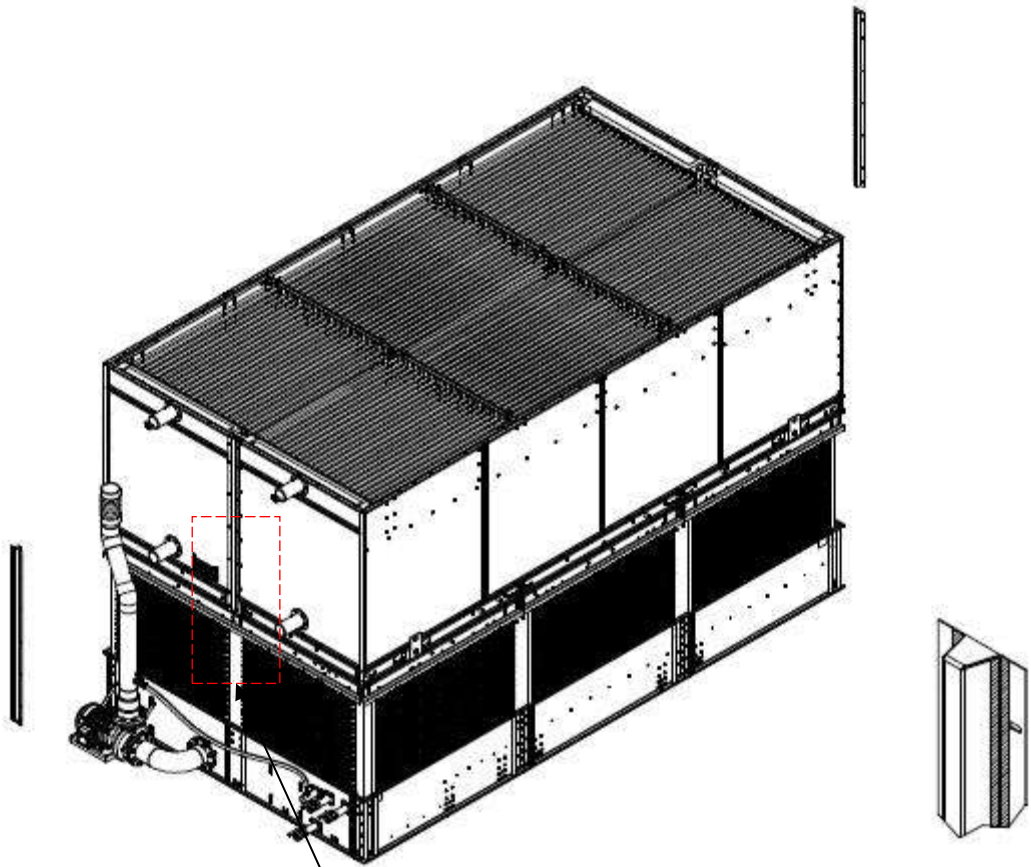
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## >> Assembly Coil Section L and R on Basin



### TIGHTENING TORQUE (A2-70)

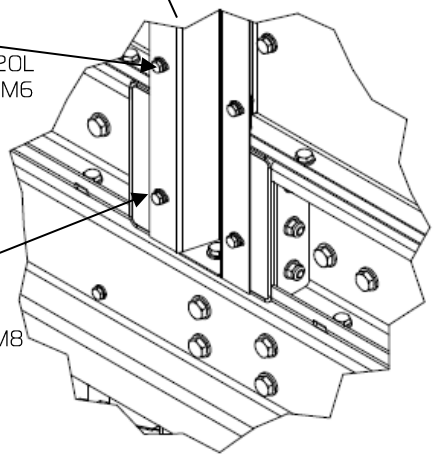
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BUTYL ON SURFACE

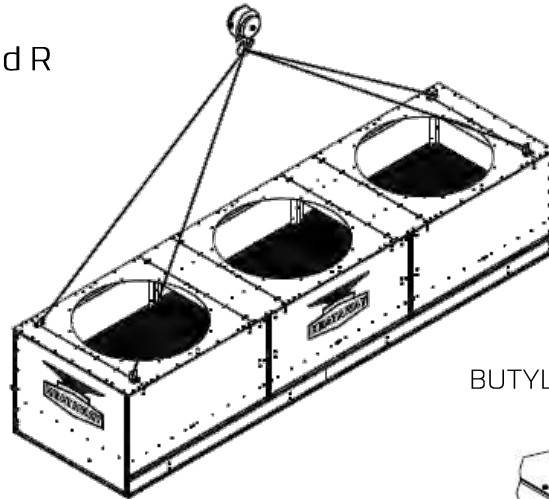
HEX BOLT M6x1x20L  
WASHER SPRING M6  
HEX NUT M6x1  
WASHER M6

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

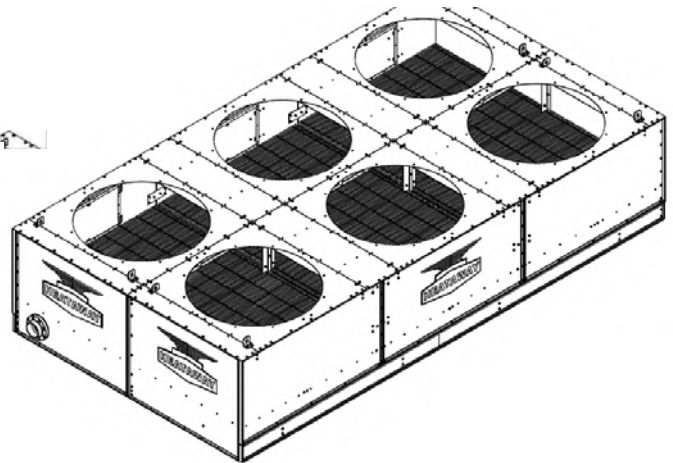
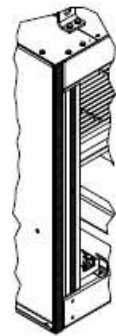
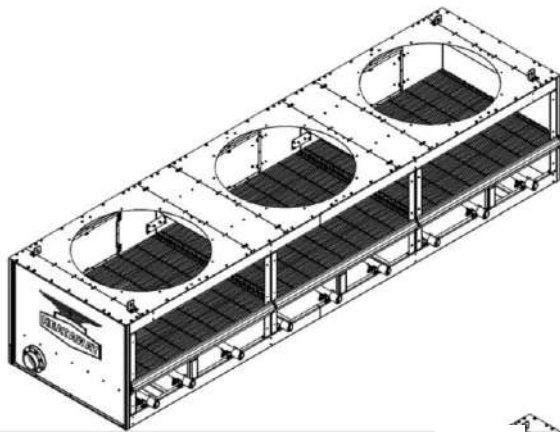


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

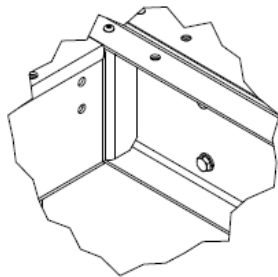
>> Assembly FAN Section L and R



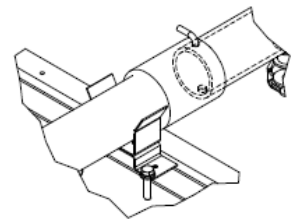
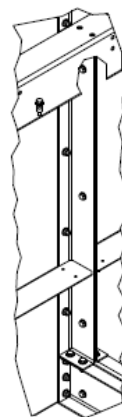
BUTYL ON SURFACE



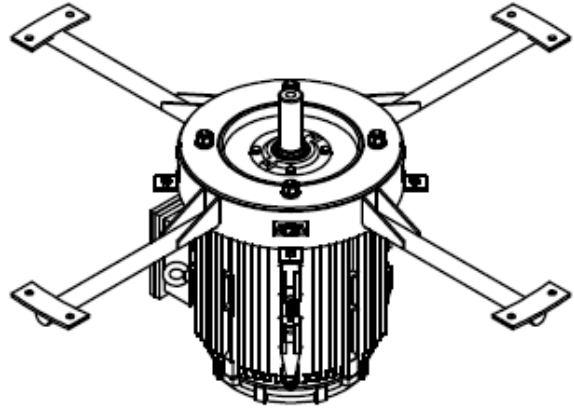
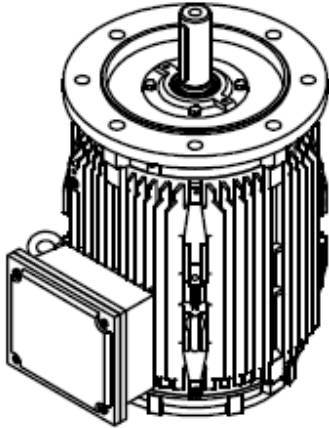
HEX BOLT  
M8x1.25x25L  
WASHER SPRING M8  
HEX NUT M8x1.25  
WASHER M8



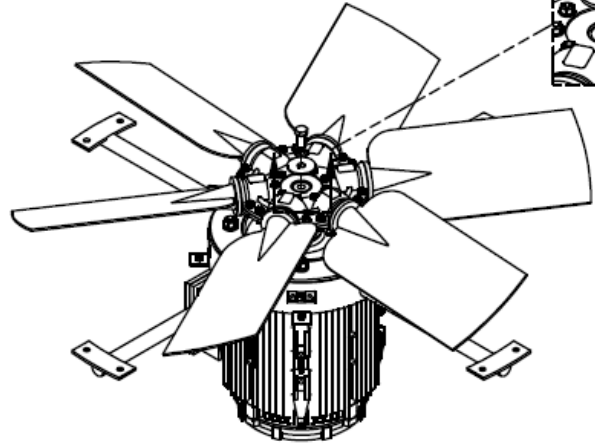
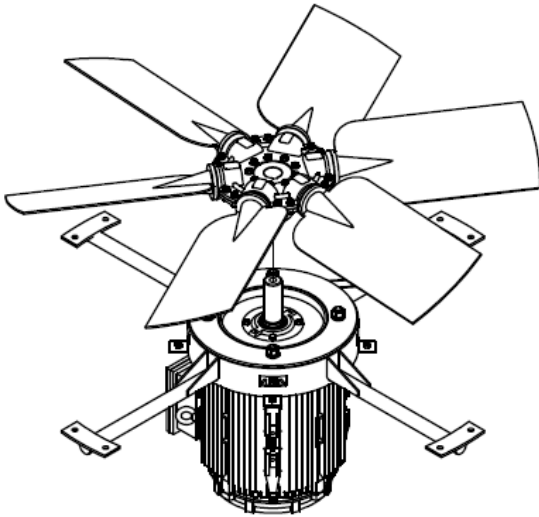
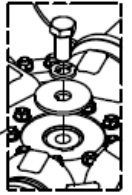
HEX BOLT  
M8x1.25x25L  
WASHER SPRING M8  
HEX NUT M8x1.25  
WASHER M8



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

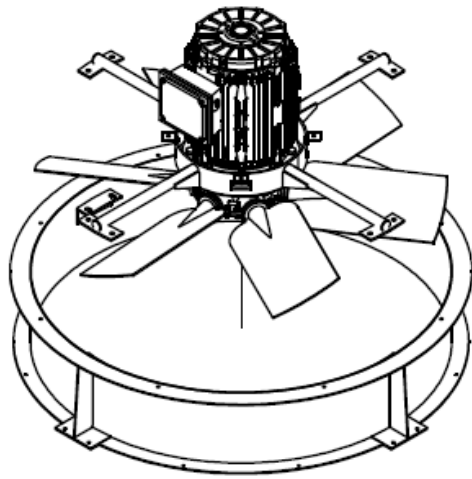


HEX NUT M16  
 SPRING WASHER FOR  
 M16  
 WASHER FOR M16  
 HEX BOLT M16x1.5x60L

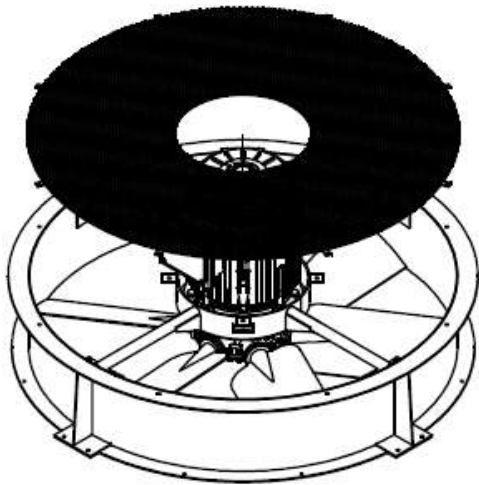
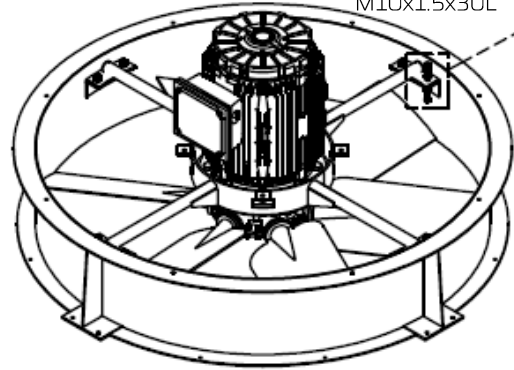
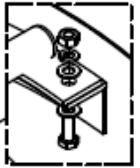


### TIGHTENING TORQUE (A2-70)

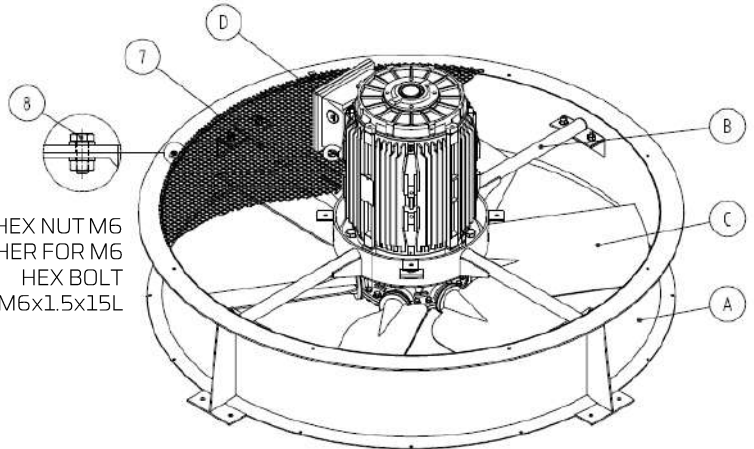
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



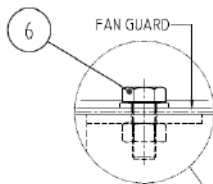
HEX NUT M10  
 SPRING WASHER FOR  
 M10  
 WASHER FOR M10  
 HEX BOLT  
 M10x1.5x30L



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

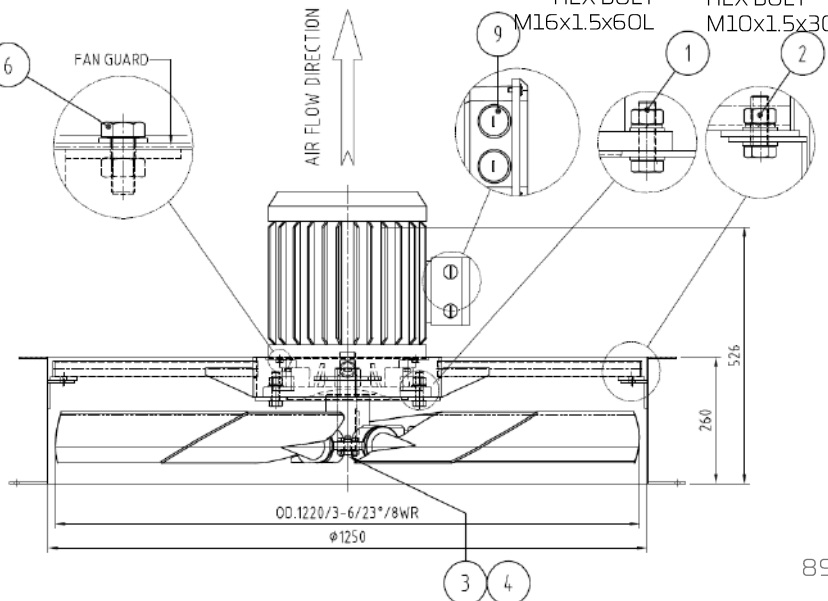


HEX NUT M8  
 WASHER FOR M8  
 HEX BOLT  
 M8x1.5x15L



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

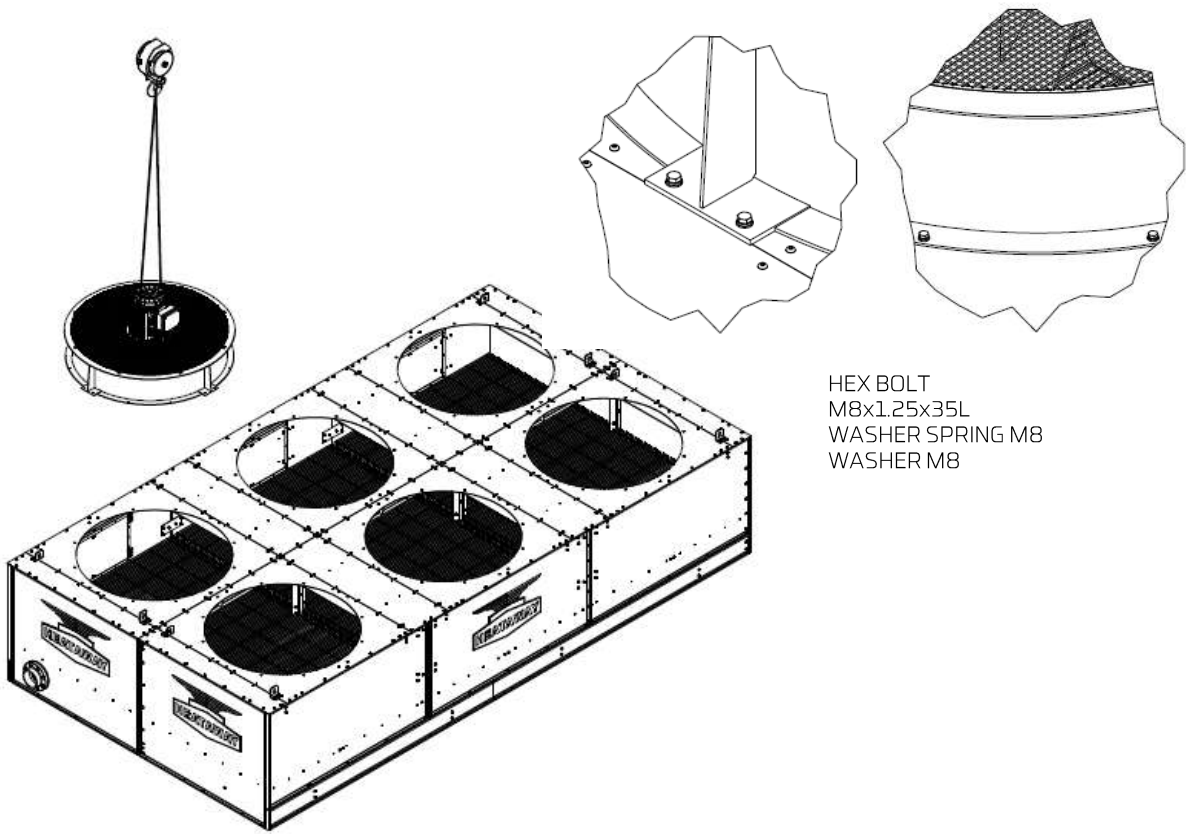
HEX NUT M10  
 SPRING WASHER FOR  
 M10  
 WASHER FOR M10  
 HEX BOLT  
 M10x1.5x30L



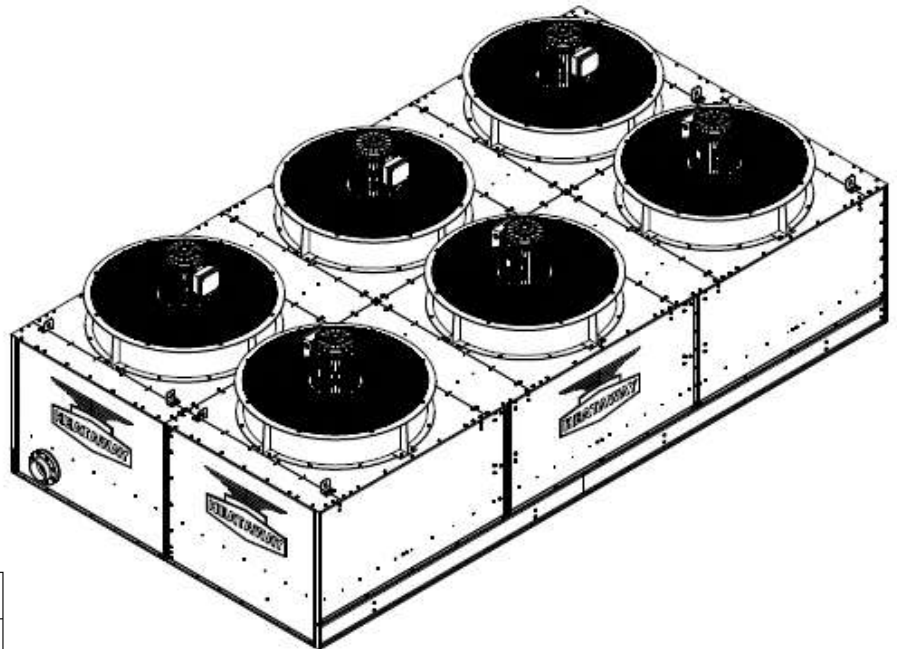
### TIGHTENING TORQUE (A2-70)

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



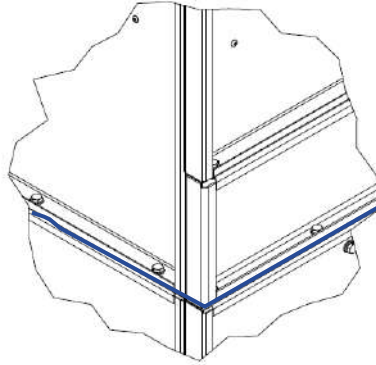
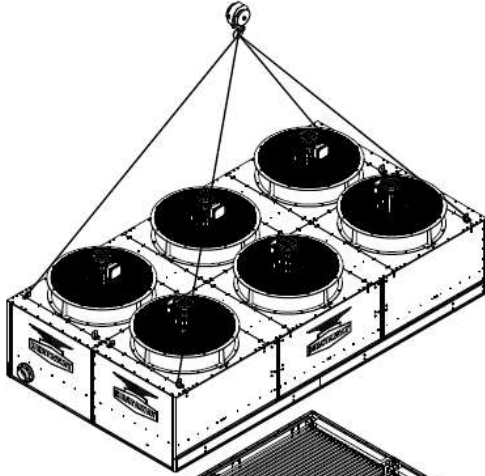
HEX BOLT  
M8x1.25x35L  
WASHER SPRING M8  
WASHER M8



### TIGHTENING TORQUE (A2-70)

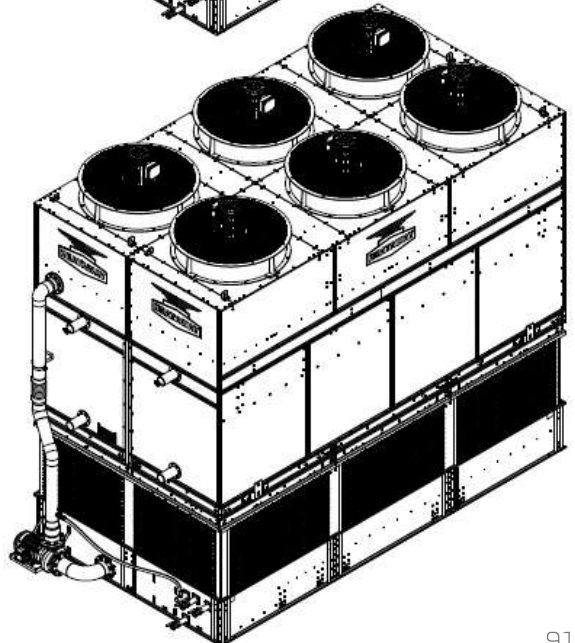
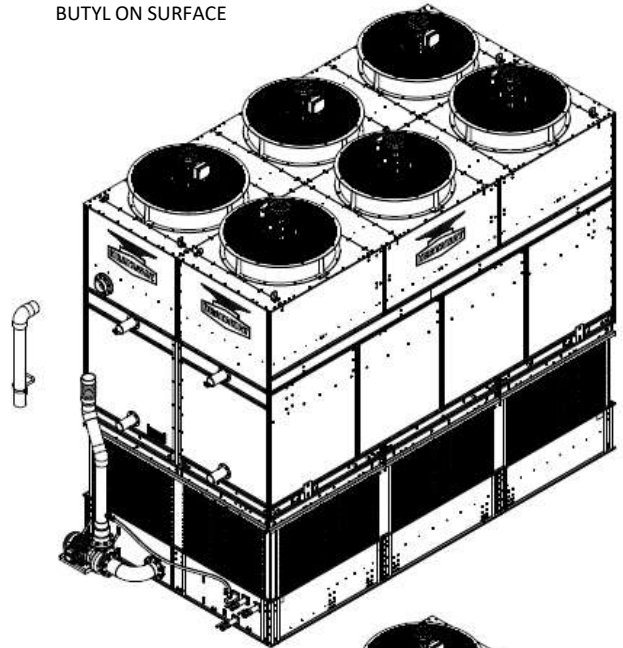
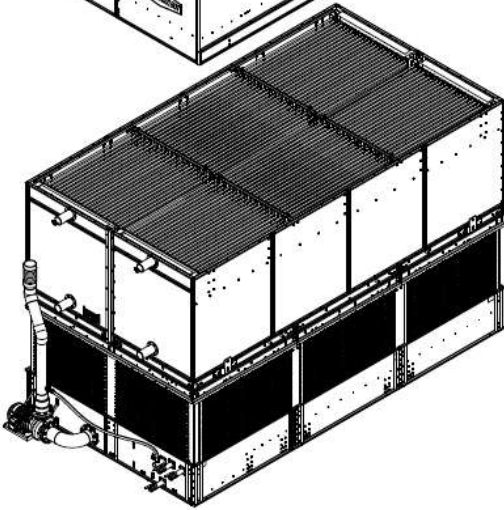
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## >> 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  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

Footprint

# 12' X 12'

Model

EC9-1650-1212C-S

EC9-1800-1212C-M

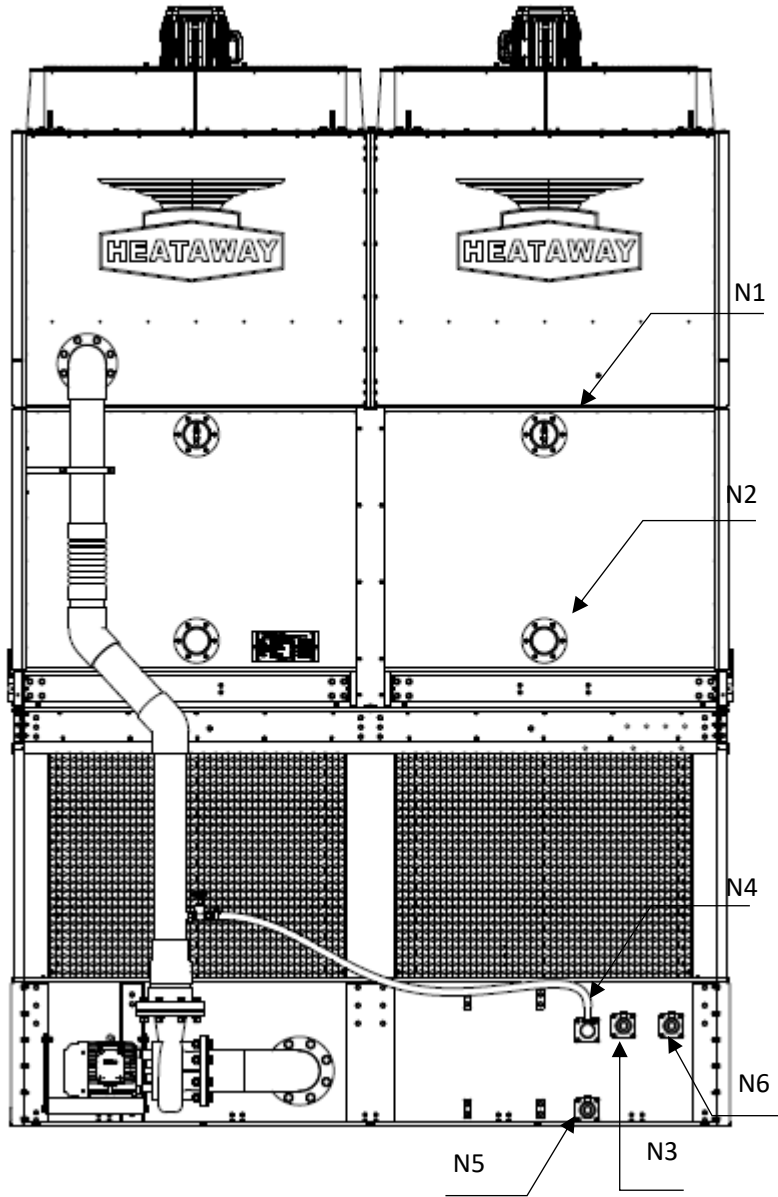
EC9-1950-1212C-L

EC9-2030-1212C-M

EC9-2220-1212C-M

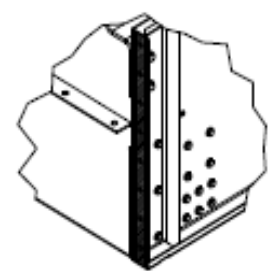
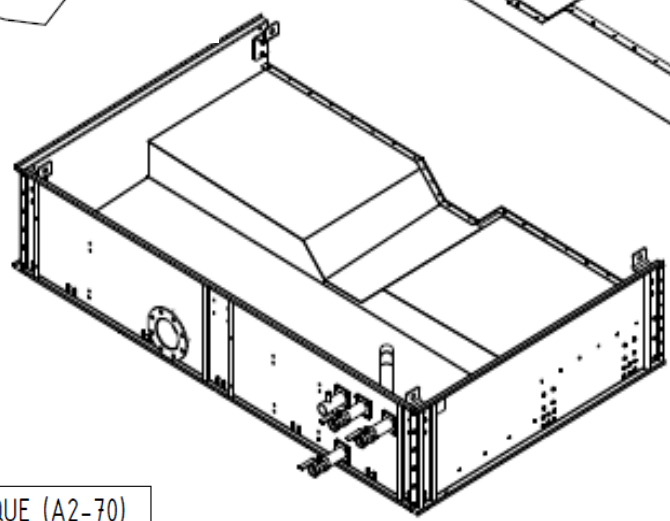
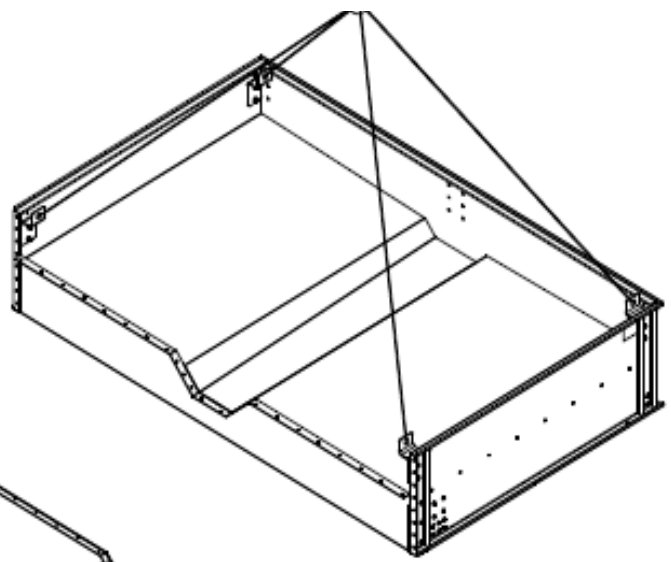
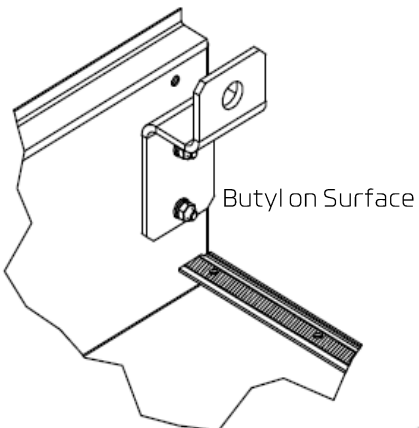
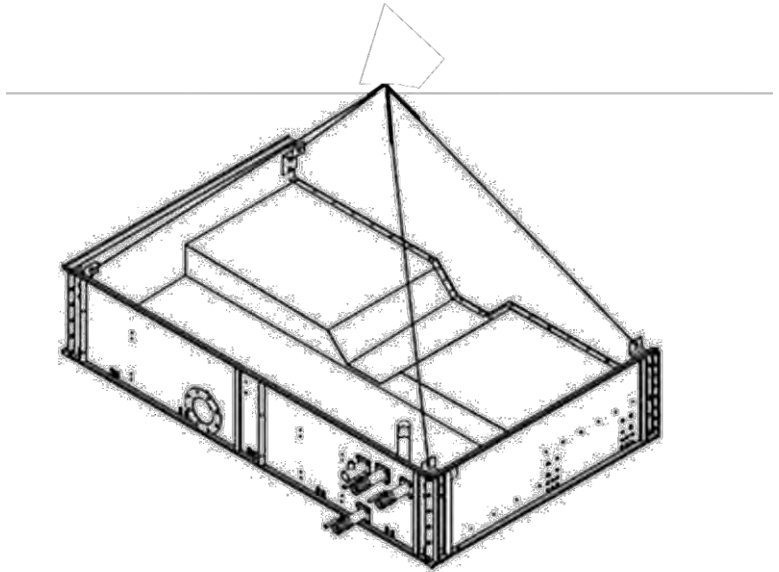
EC9-2400-1212C-L





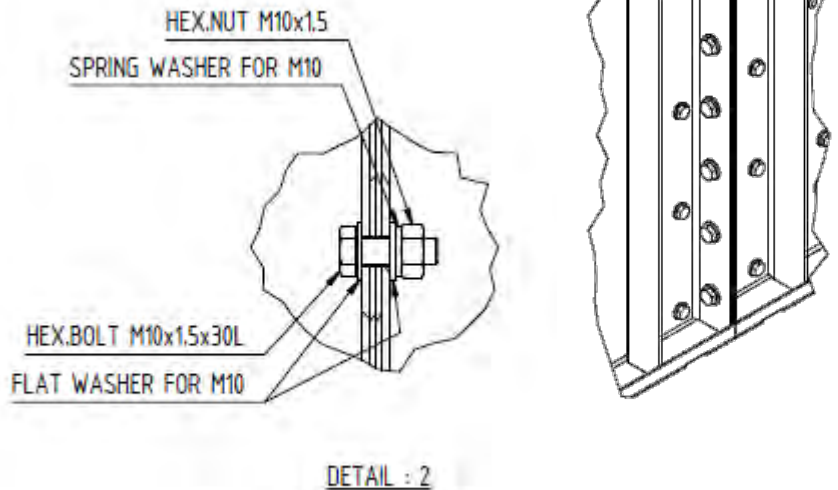
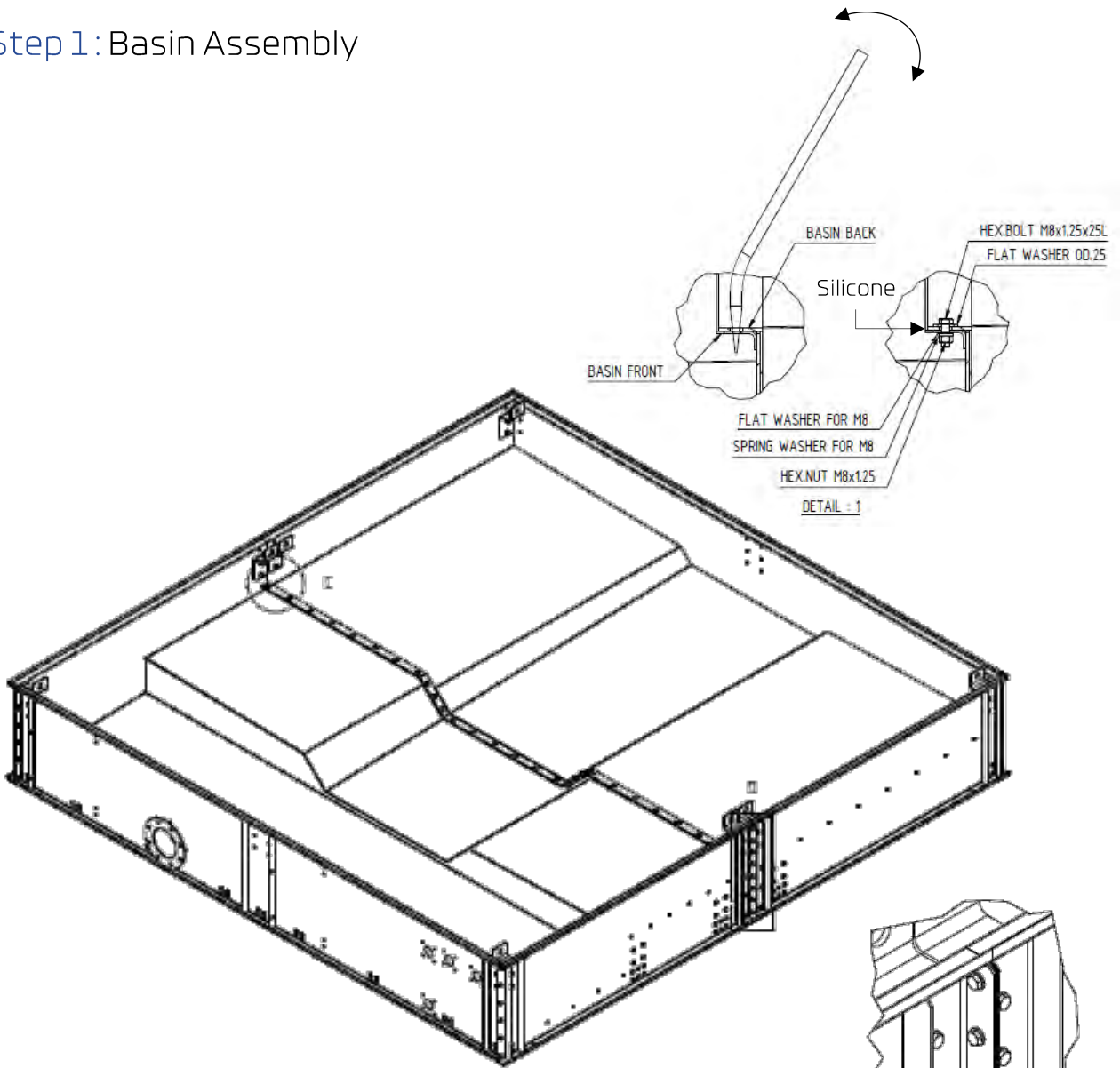
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

## Step 1: Basin Assembly



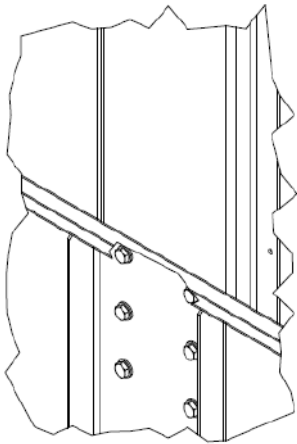
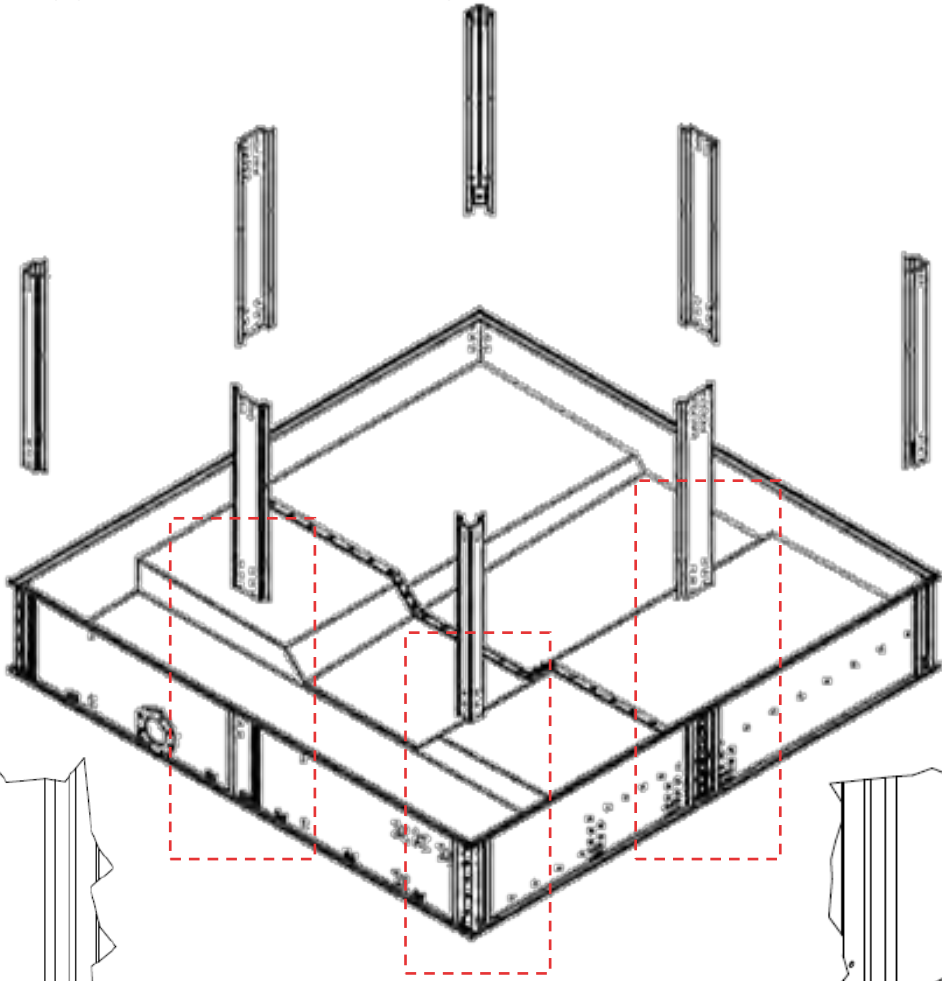
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 1: Basin Assembly



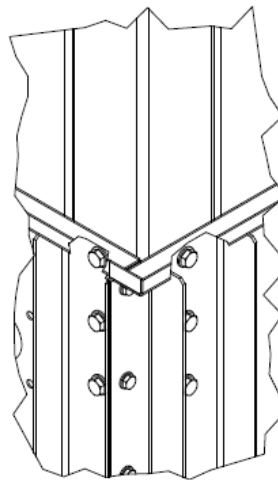
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 2 : Support Frame Assembly



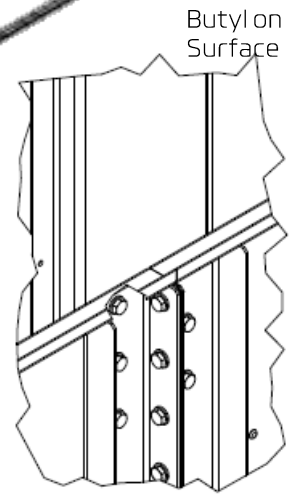
Butyl on Surface

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



Butyl on Surface

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

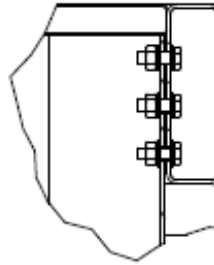
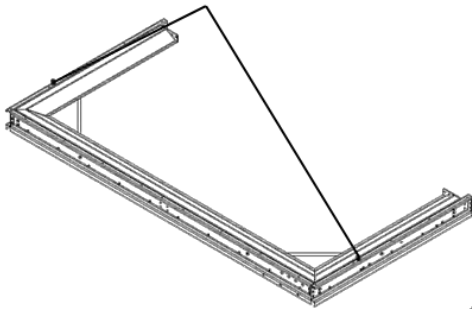


Butyl on Surface

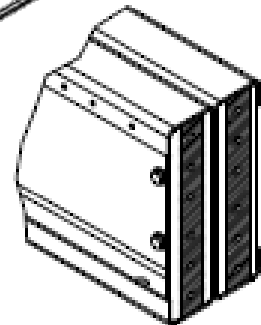
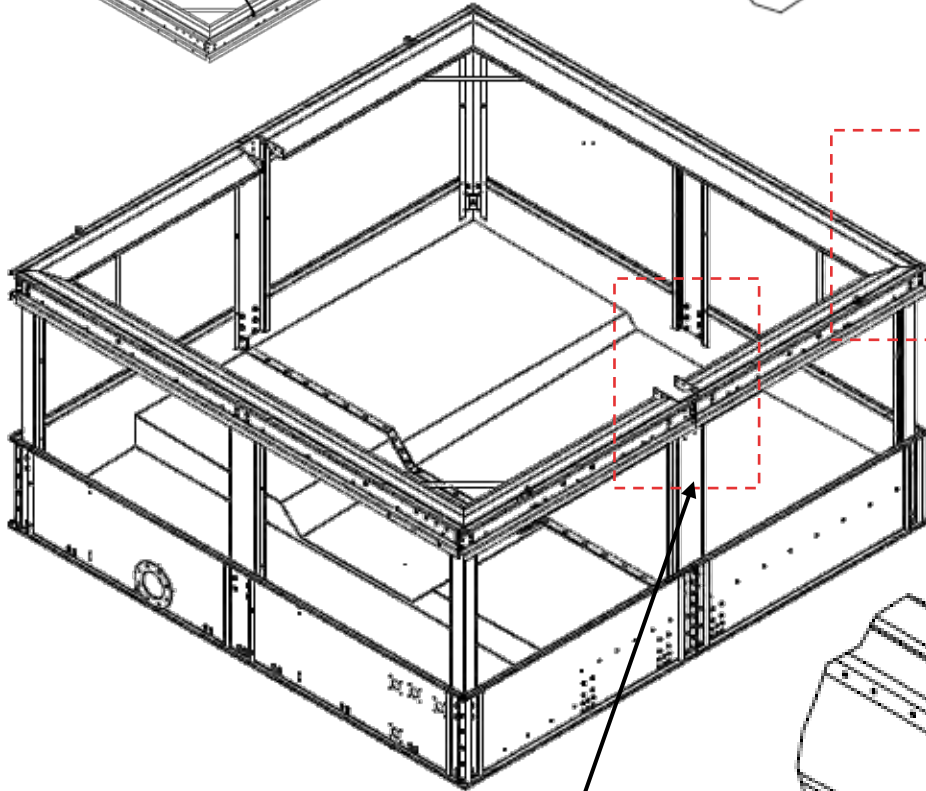
HEX BOLT  
M10x1.5x30L  
HEX NUT M10  
WASHER M10  
SPRING WASHER  
M10

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

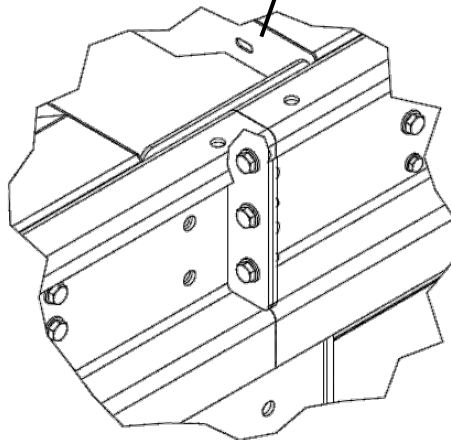
## Step 3: Frame Assembly



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



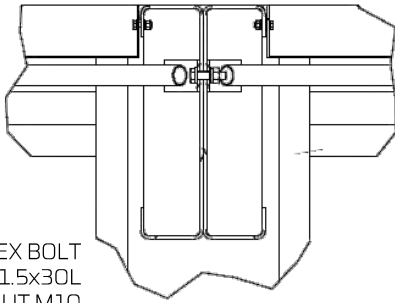
Butyl on Surface



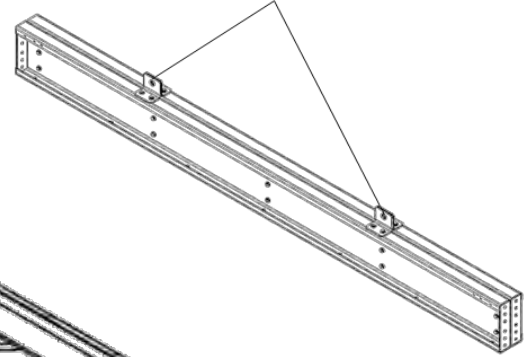
HEX BOLT  
M8x1.25x25L  
HEX.LOCK NUT  
M8x1.25  
WASHER M8

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

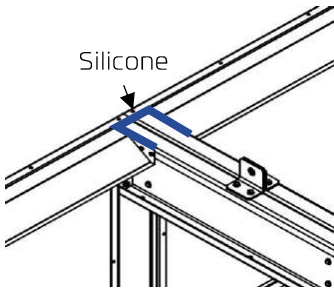
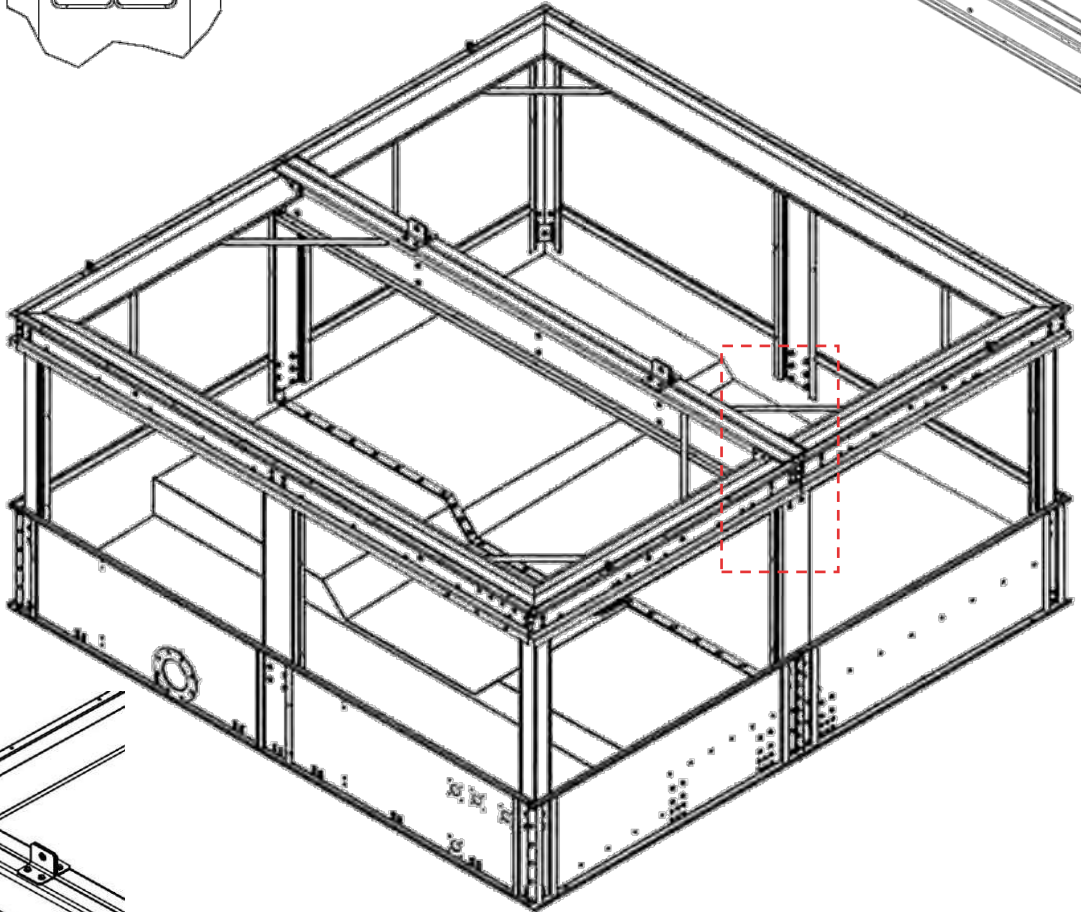
## Step 4: Frame Beam and Support Assembly



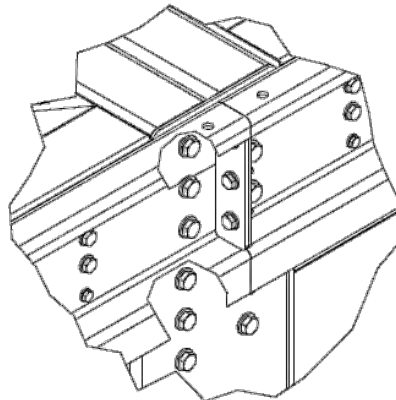
HEX BOLT  
M10x1.5x40L  
HEX NUT M10  
WASHER M10  
SPRING WASHER  
M10



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



Silicone

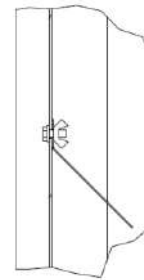
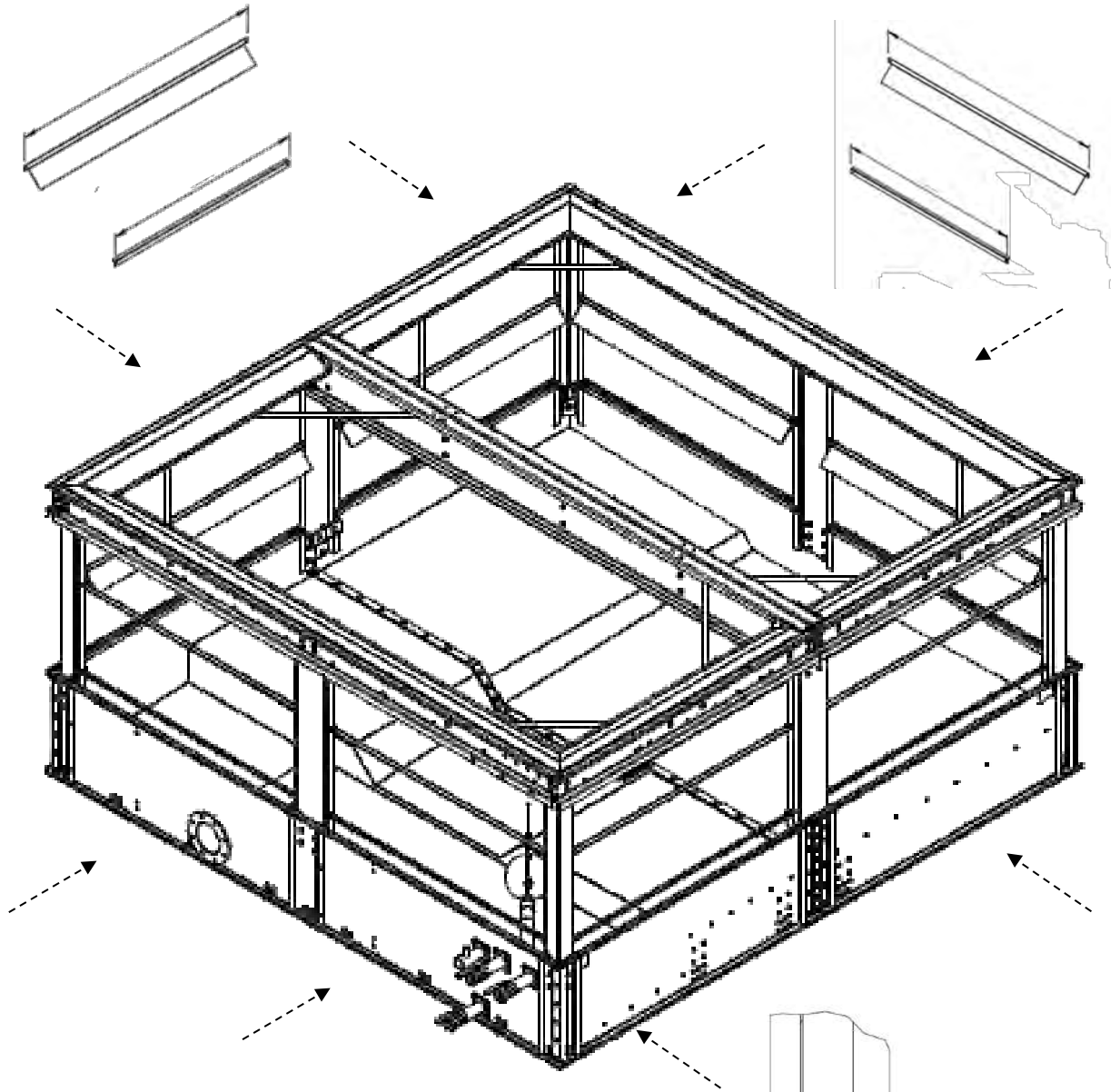


HEX BOLT  
M10x1.5x30L  
HEX NUT M10  
WASHER M10  
SPRING WASHER  
M10

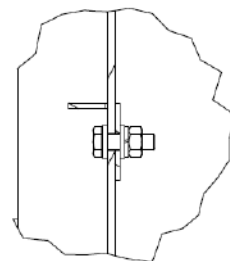
### TIGHTENING TORQUE (A2-70)

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

## Step 5: Water Deflect Assembly



HEX BOLT  
M8x1.25x20L  
WING NUT M8  
WASHER M8

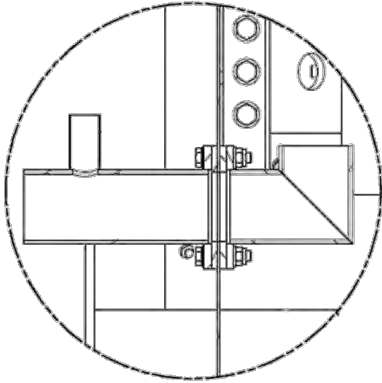


HEX BOLT  
M6x1.25x20L  
HEX LOCK NUT  
M6x1.25  
WASHER M6  
SPRING WASHER M6

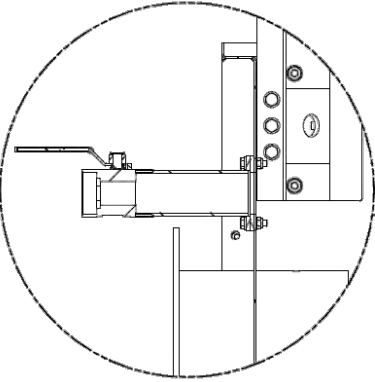
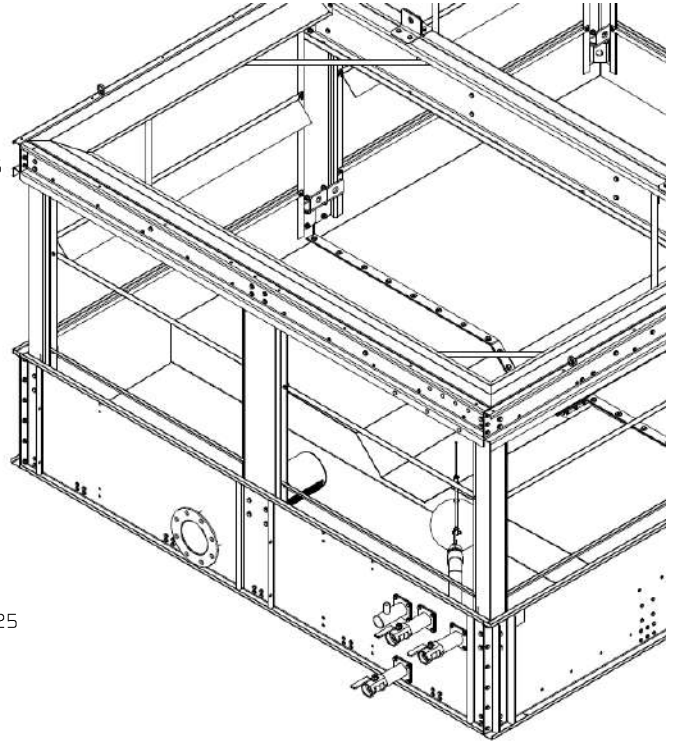
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



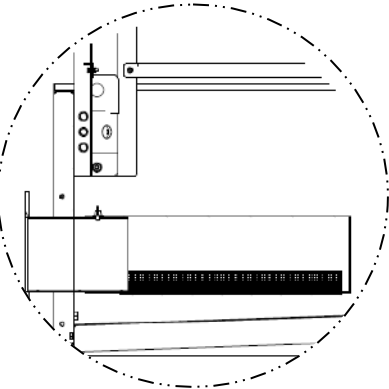
## Step 6 : Piping and Valve Assembly



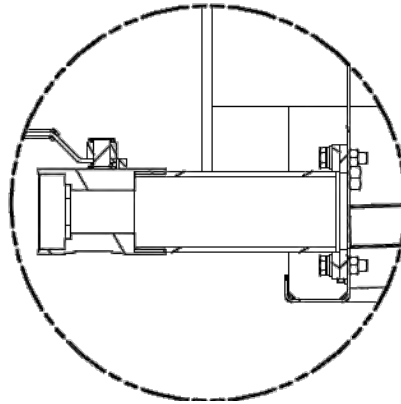
PIPE OVER FLOW  
BOLT M8x1.25x40L  
NR GASKET  
WASHER FOR M8  
HEX.LOCK NUT M8X1.25



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



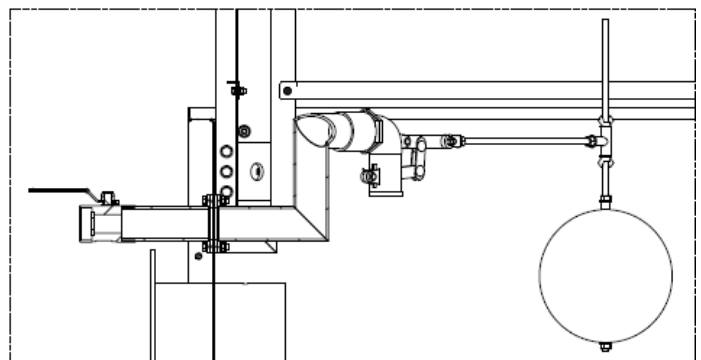
PIPE WITH STRAINER  
WING SCREW - M8 x 12  
WASHER



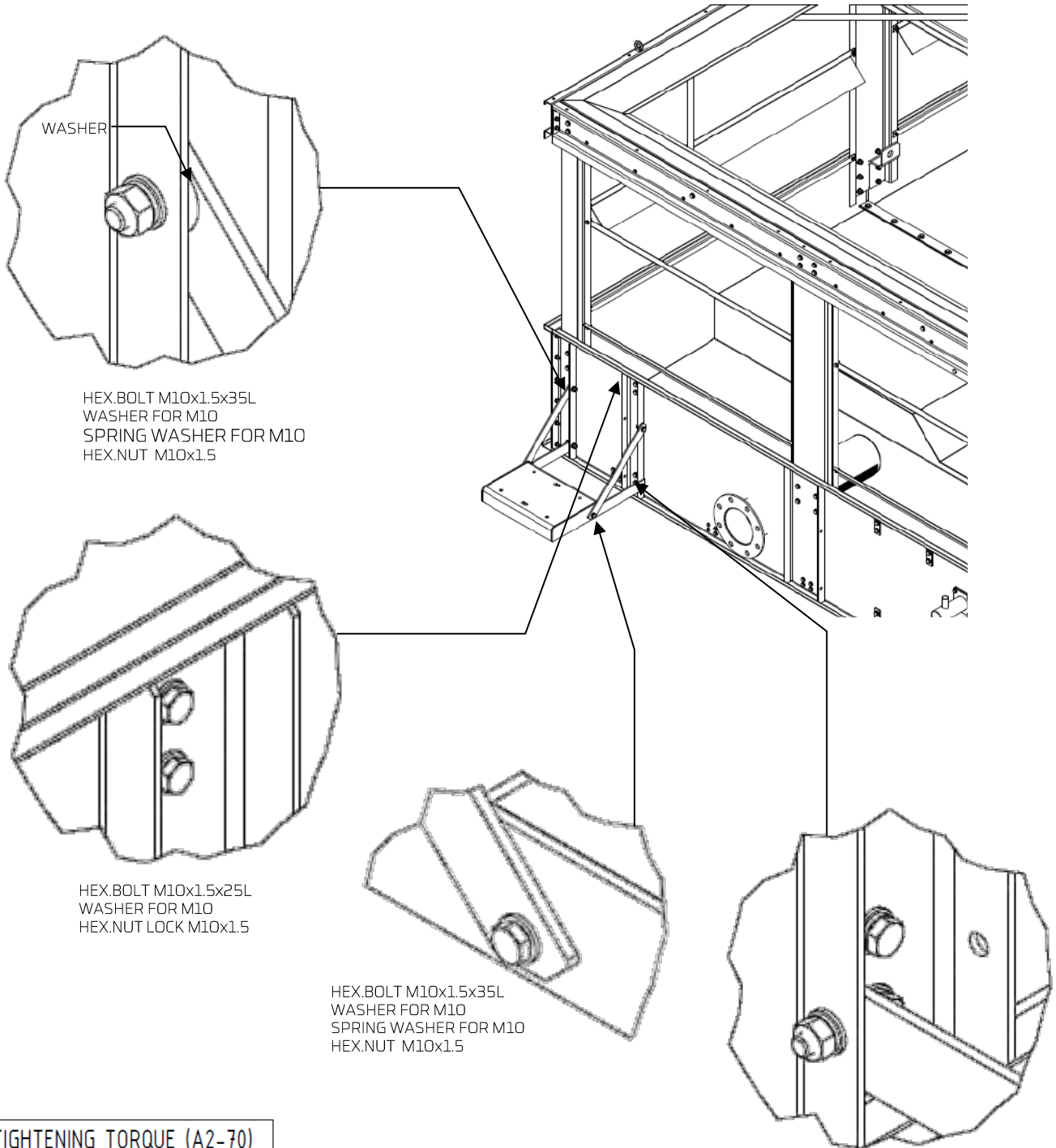
BALL VALVE  
DRAIN WATER PIPE  
BOLT M8x1.25x30L  
SPRING WASHER M8  
WASHER FOR M8  
NR GASKET  
HEX.LOCK NUT M8X1.25

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

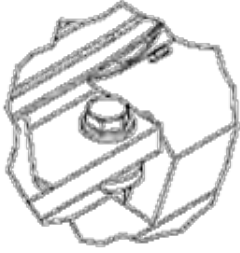


## Step 7 : Water Pump Base Assembly

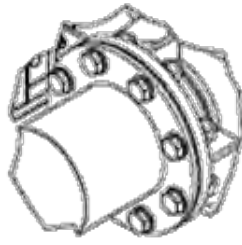


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

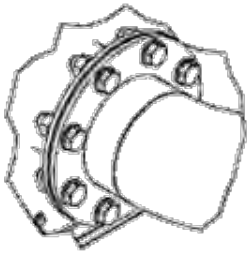
## Step 8: Water Pump pipe Assembly



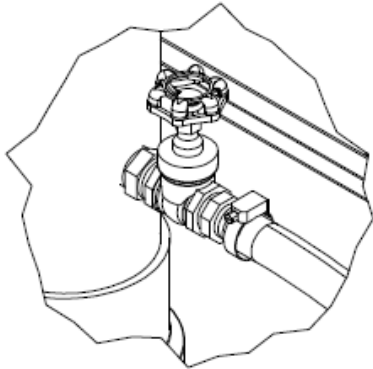
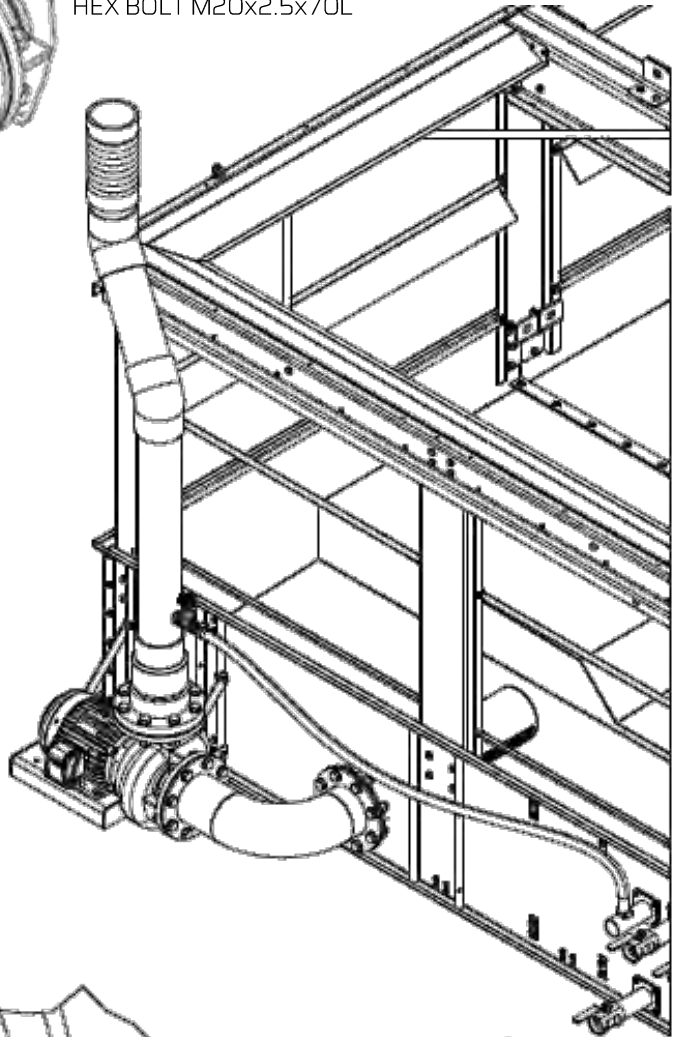
HEX NUT M12x1.75  
 SPRING WASHER FOR M12  
 WASHER FOR M12  
 HEX BOLT M12x1.75x50L



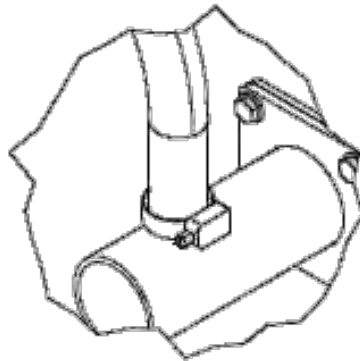
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x70L



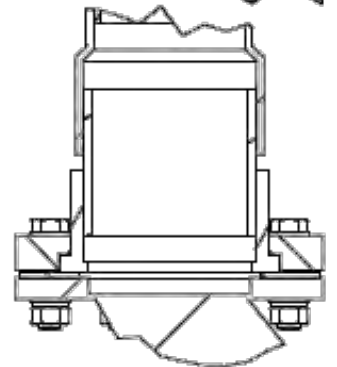
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x60L



HOSE CLAMP 1"  
 TEXTILE HOSE 1"



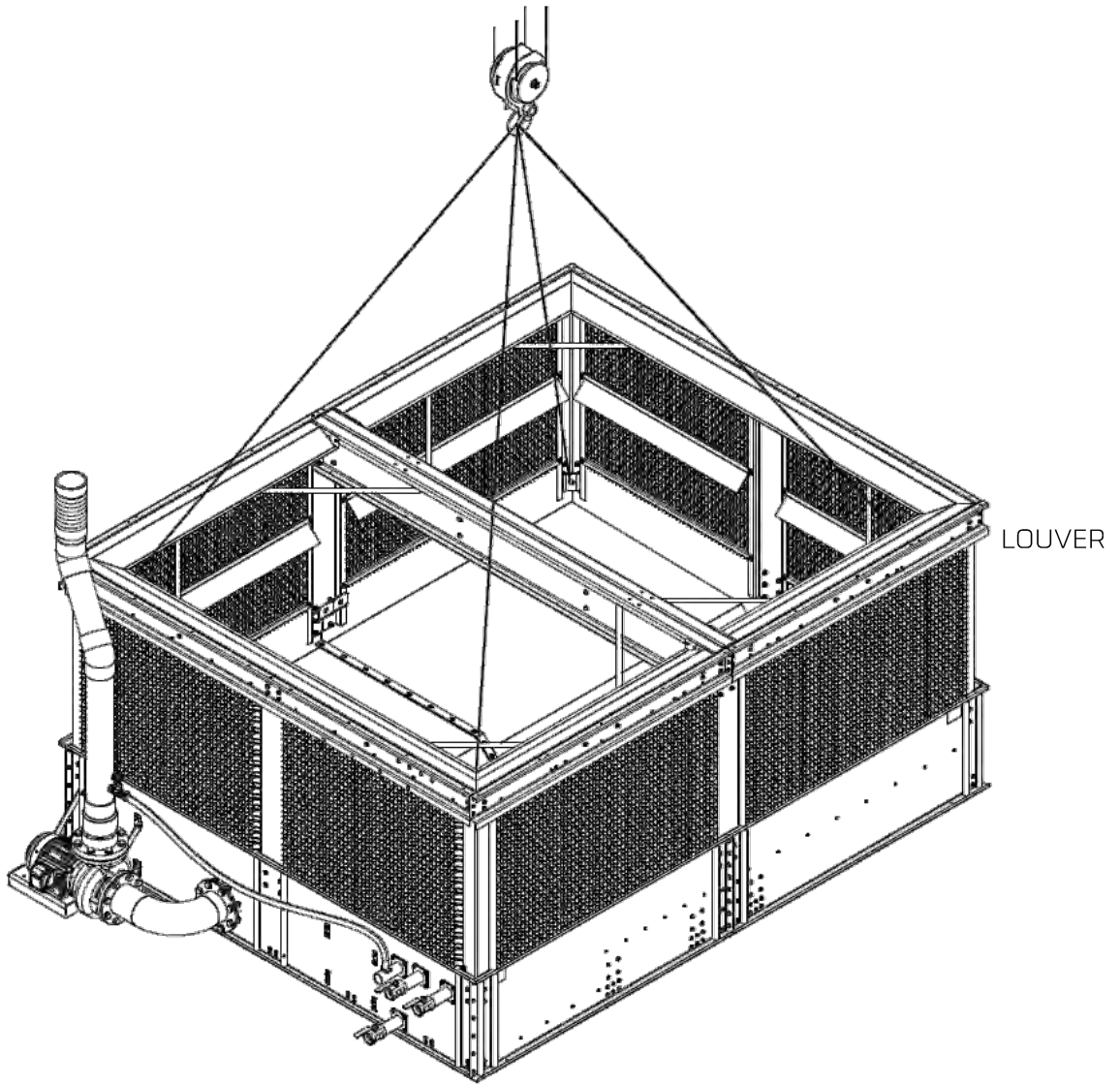
HOSE CLAMP 1"  
 TEXTILE HOSE 1"



HEX BOLT M20x90L  
 HEX LOCK NUT M20  
 WASHER FOR M20  
 SPRING WASHER FOR M20

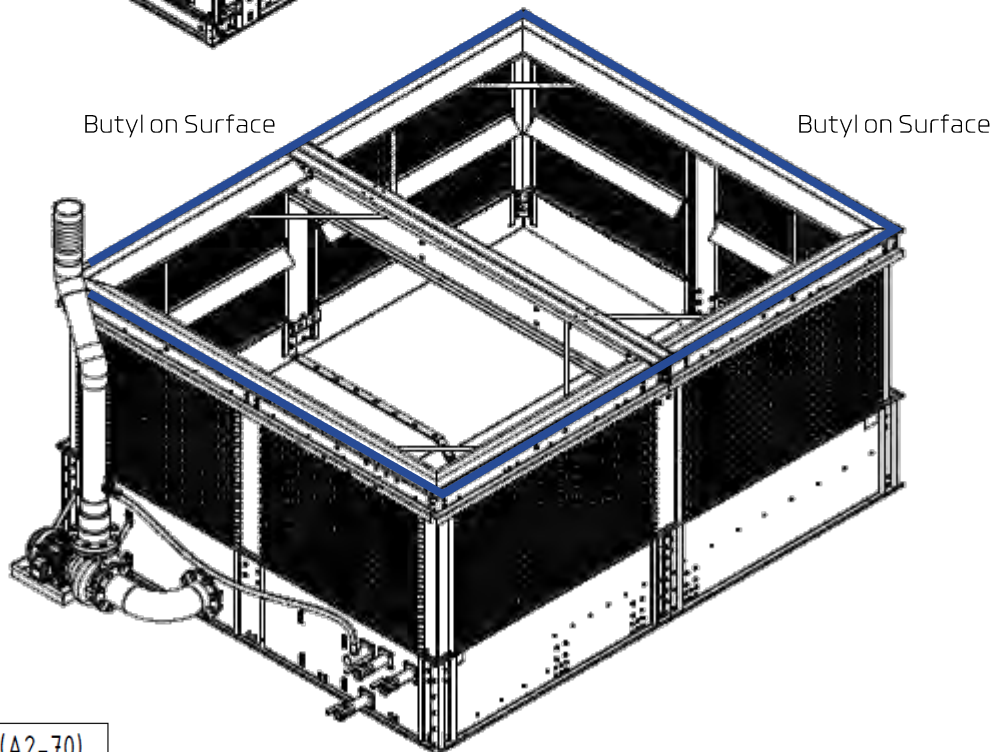
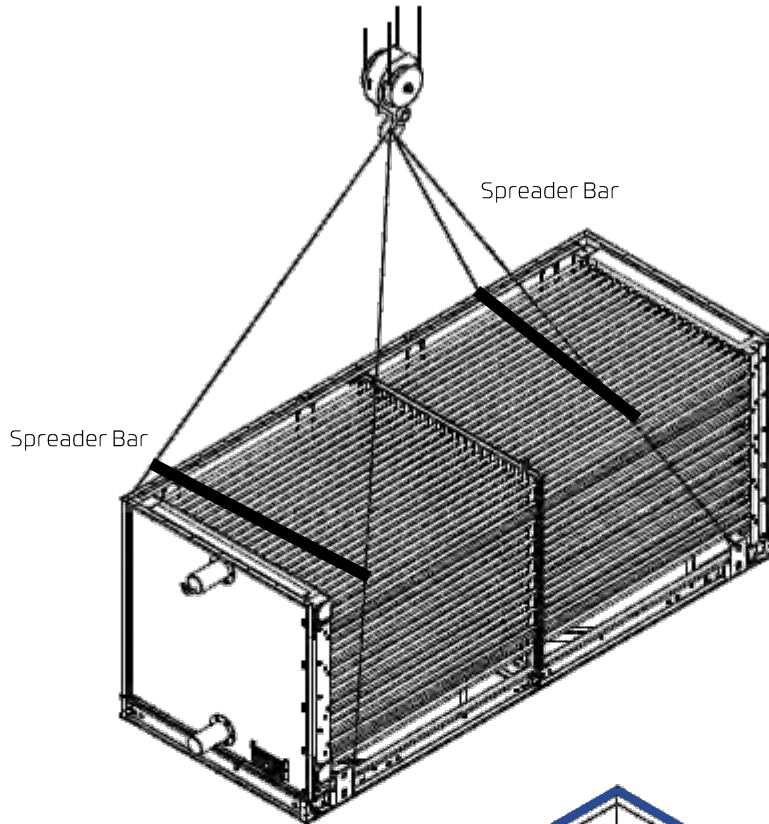
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## Step 9: Move Assembled Basin to Position



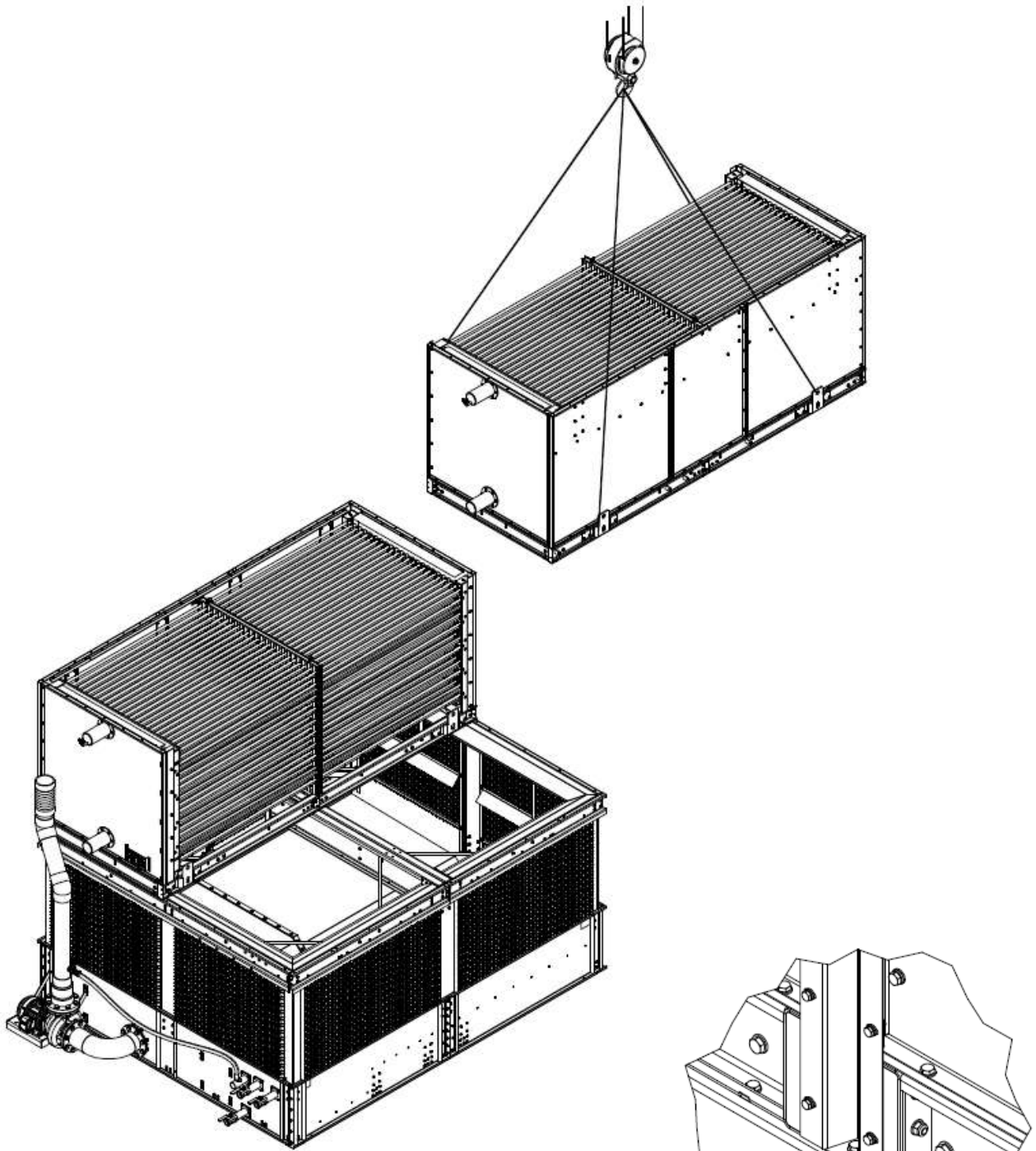
### TIGHTENING TORQUE (A2-70)

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



### TIGHTENING TORQUE (A2-70)

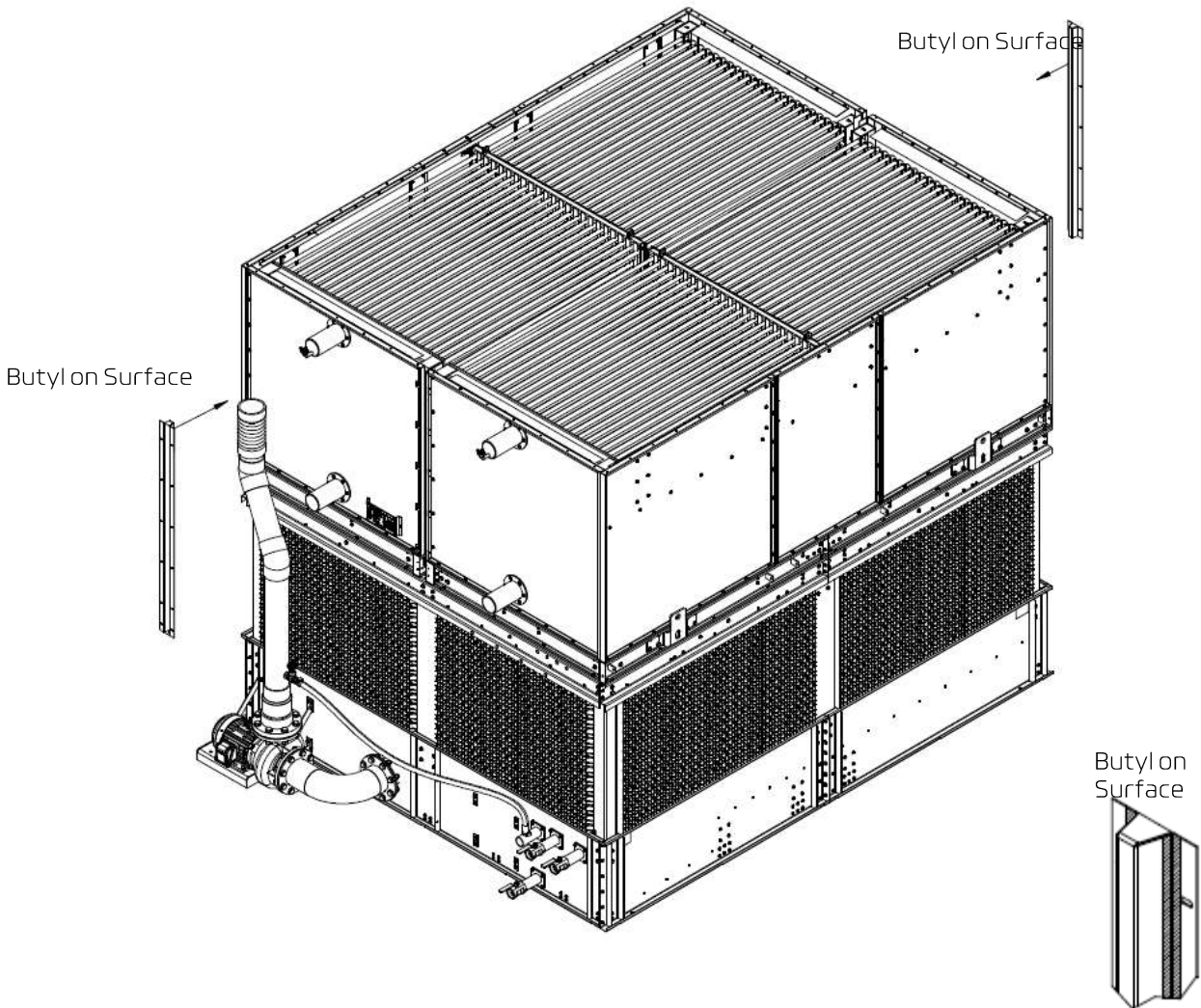
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



### TIGHTENING TORQUE (A2-70)

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

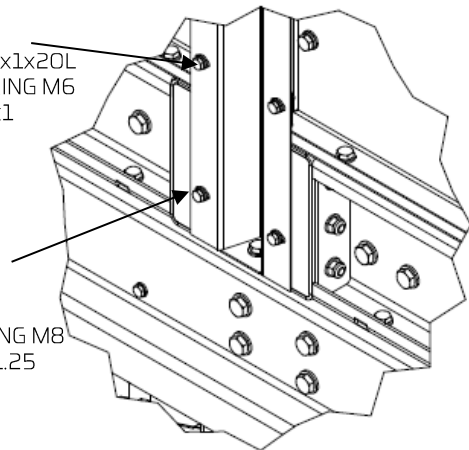
HEX BOLT  
 M8x1.25x25L  
 WASHER SPRING M8  
 HEX NUT M8x1.25  
 WASHER M8

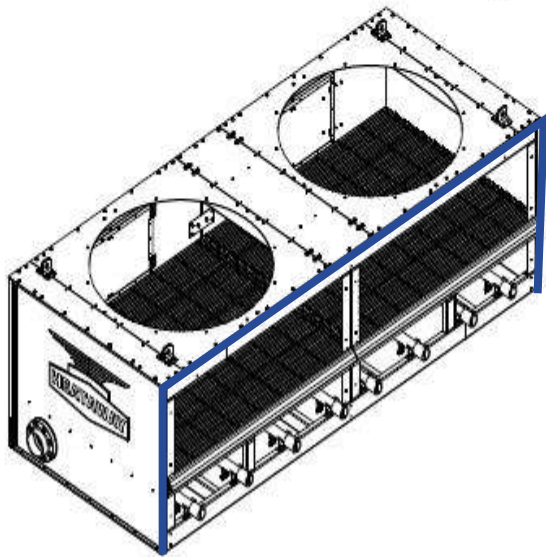
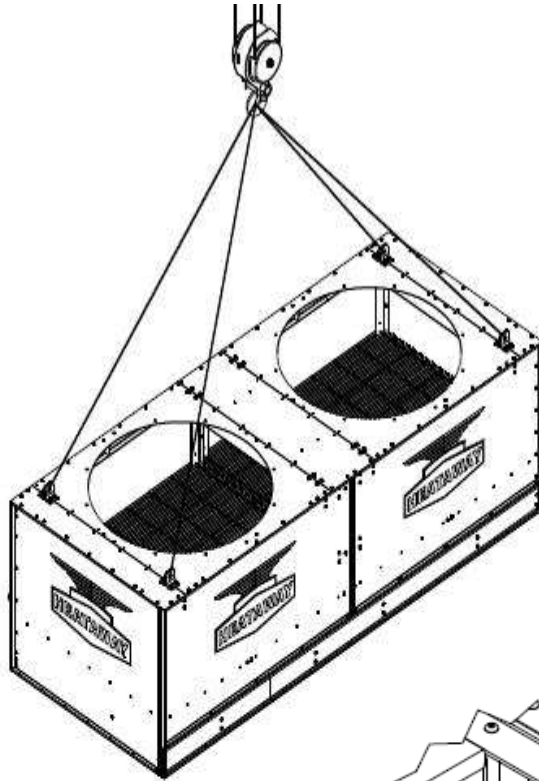


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

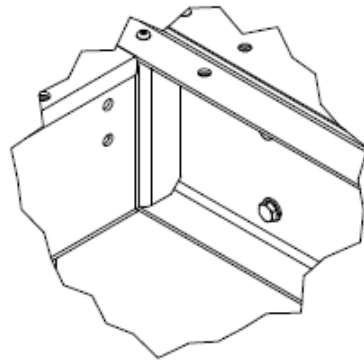
HEX BOLT M6x1x20L  
 WASHER SPRING M6  
 HEX NUT M6x1  
 WASHER M6

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

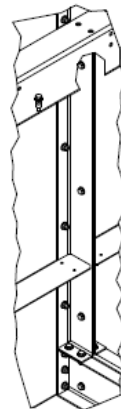




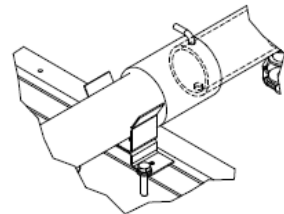
Butyl on Surface



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

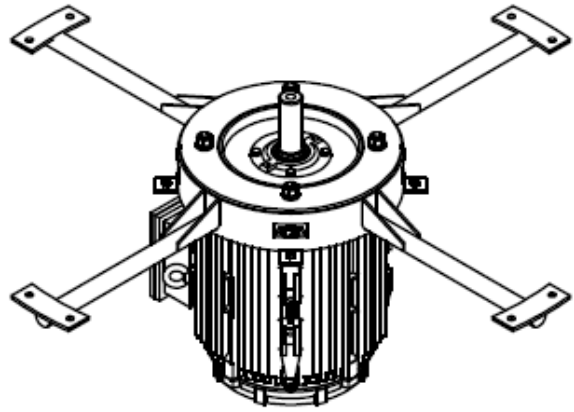
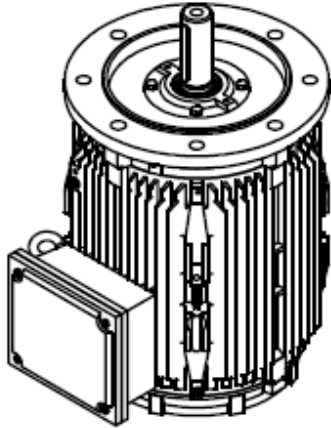


HEX BOLT  
M8x1.25x25L  
WASHER SPRING M8  
HEX NUT M8x1.25  
WASHER M8

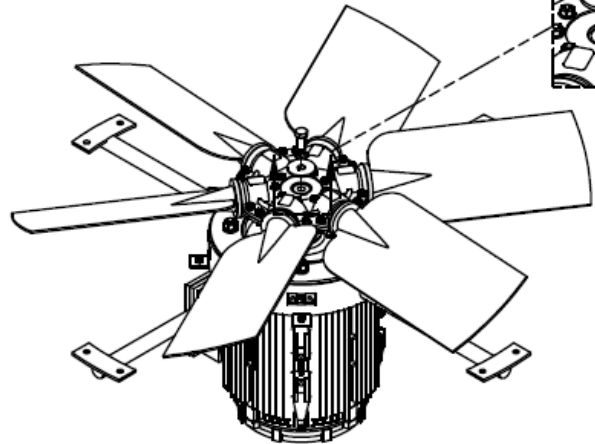
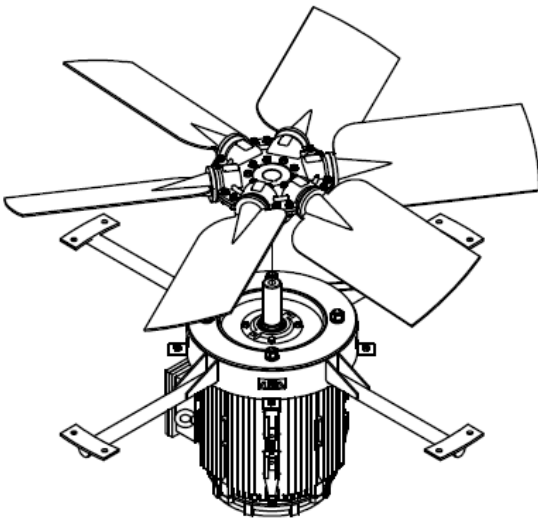
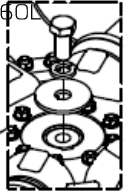


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



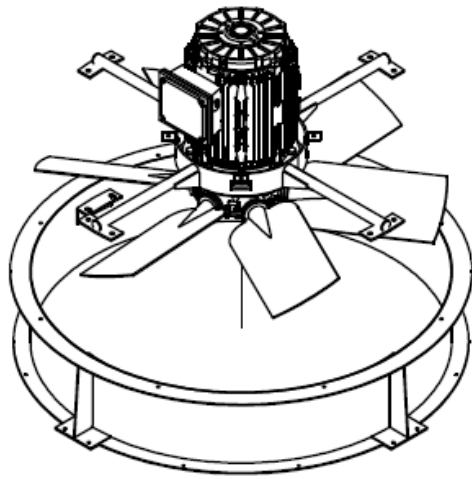


HEX NUT M16  
 SPRING WASHER FOR  
 M16  
 WASHER FOR M16  
 HEX BOLT  
 M16x1.5x60

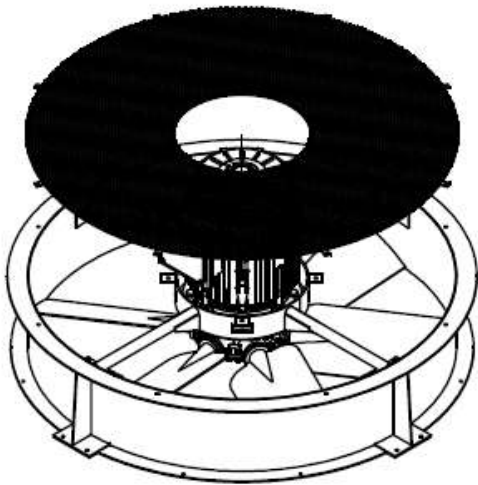
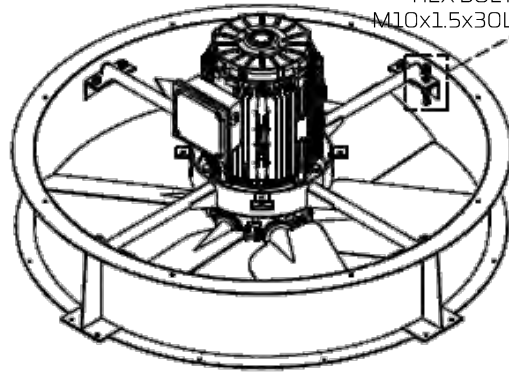
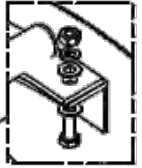


### TIGHTENING TORQUE (A2-70)

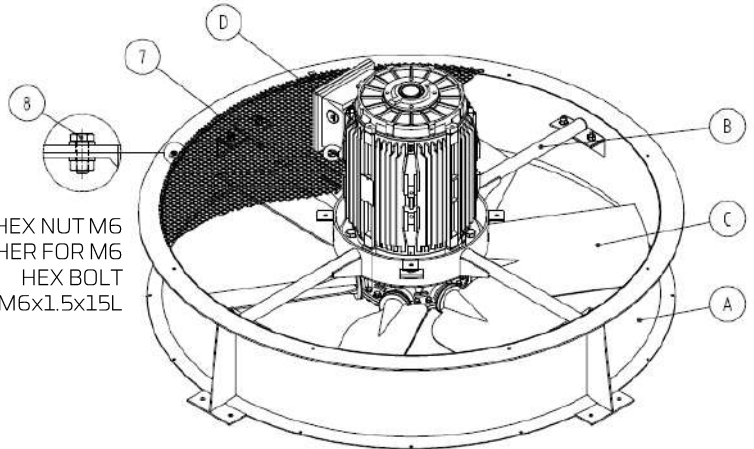
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



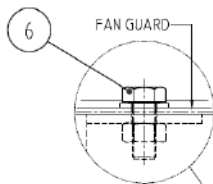
HEX NUT M10  
 SPRING WASHER FOR  
 M10  
 WASHER FOR M10  
 HEX BOLT  
 M10x1.5x30L



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



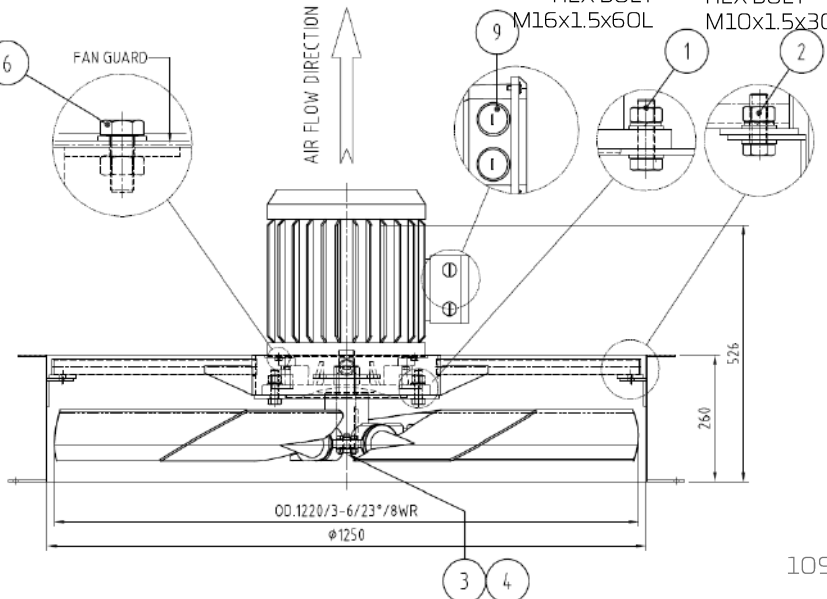
HEX NUT M8  
 WASHER FOR M8  
 HEX BOLT  
 M8x1.5x15L



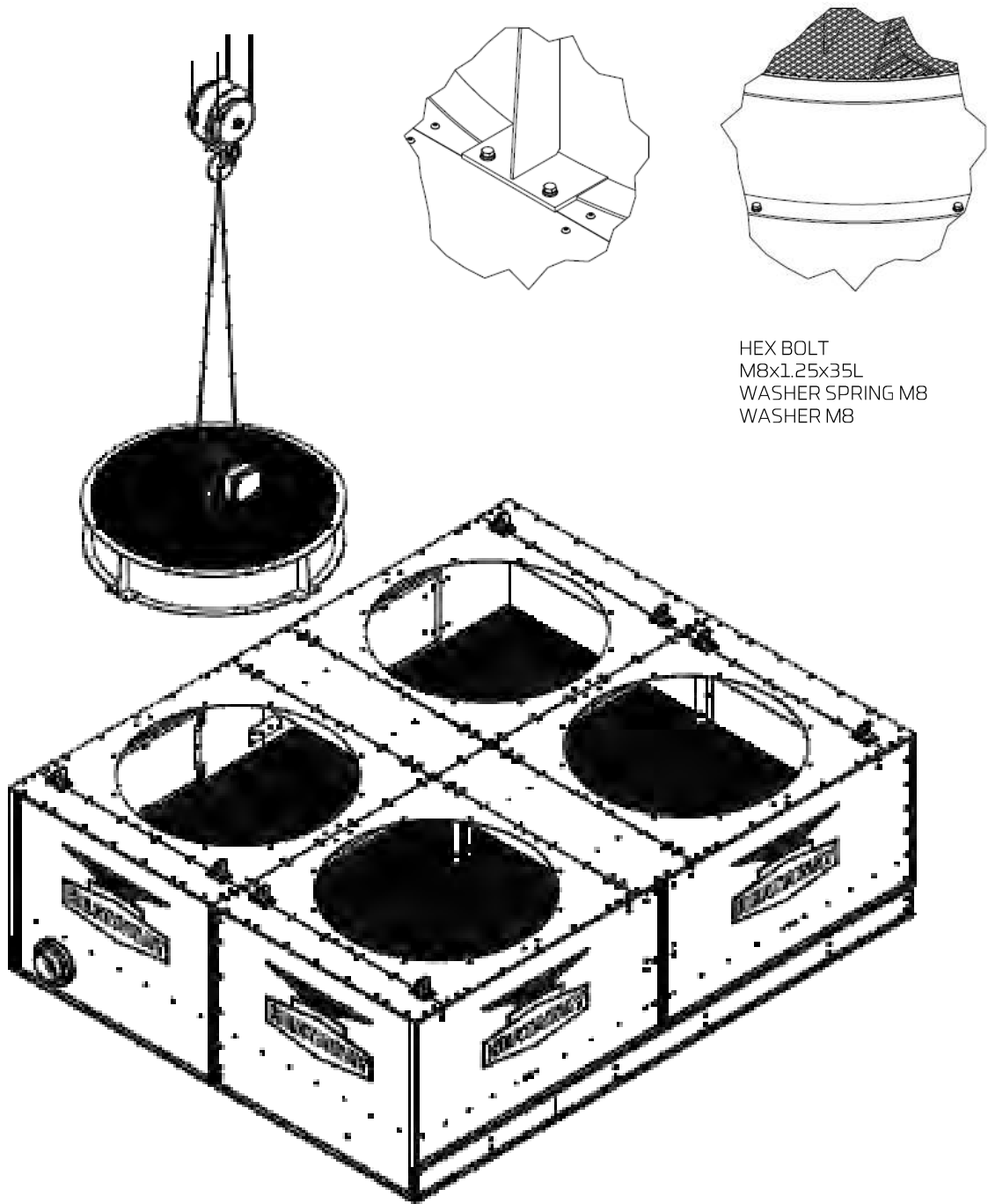
HEX NUT M16  
 SPRING WASHER FOR  
 M16  
 WASHER FOR M16  
 HEX BOLT  
 M16x1.5x60L

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

AIR FLOW DIRECTION

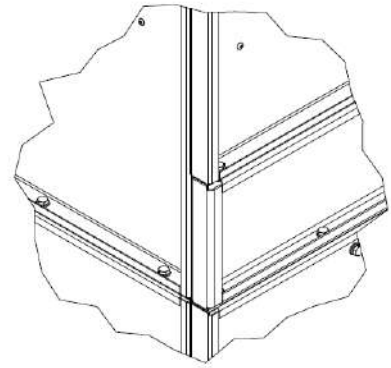
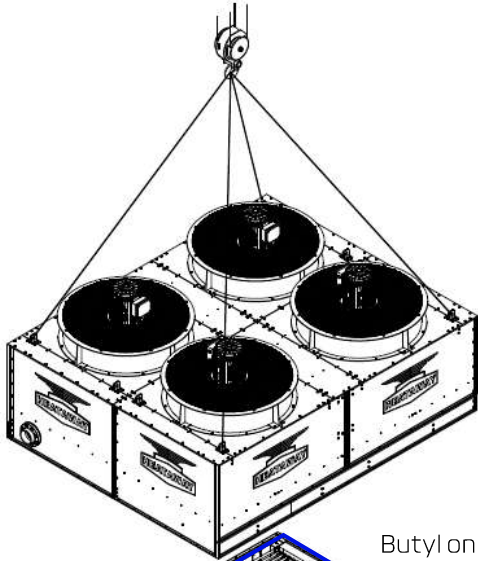


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



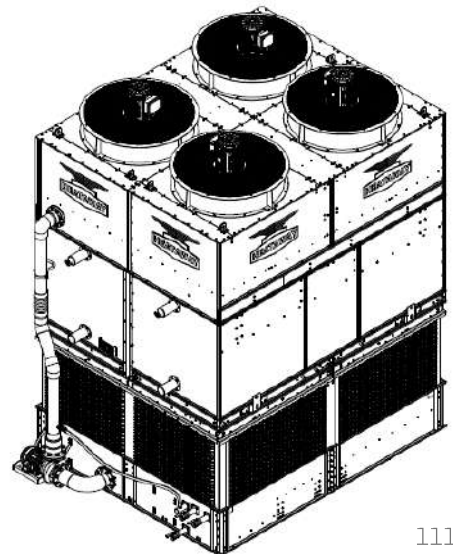
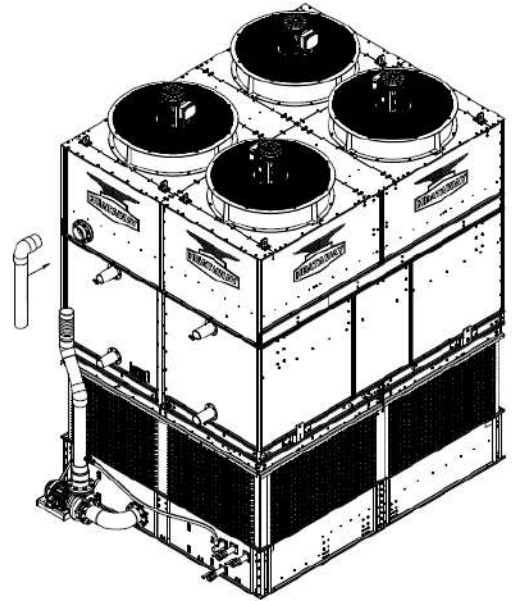
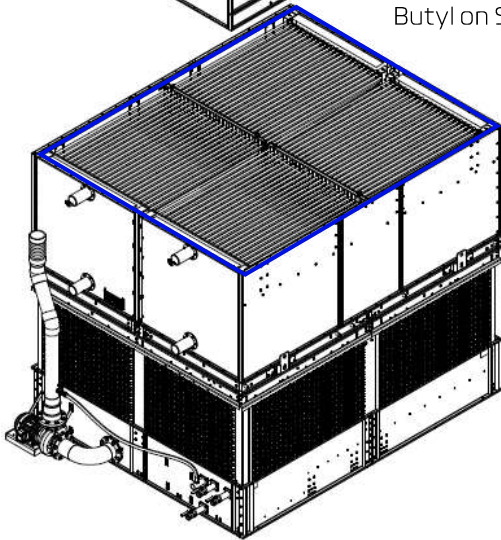
### TIGHTENING TORQUE (A2-70)

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  
LIEV NIT MO 1 DE

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  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

Footprint

**12' X 18'**

Model

EC9-2600-1218C-S

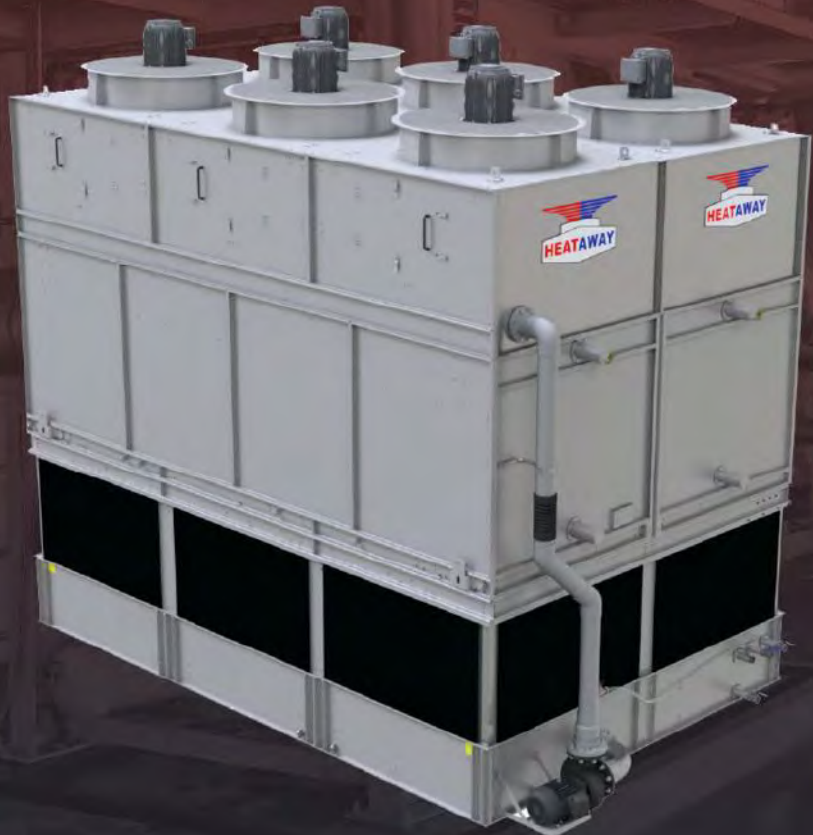
EC9-2800-1218C-M

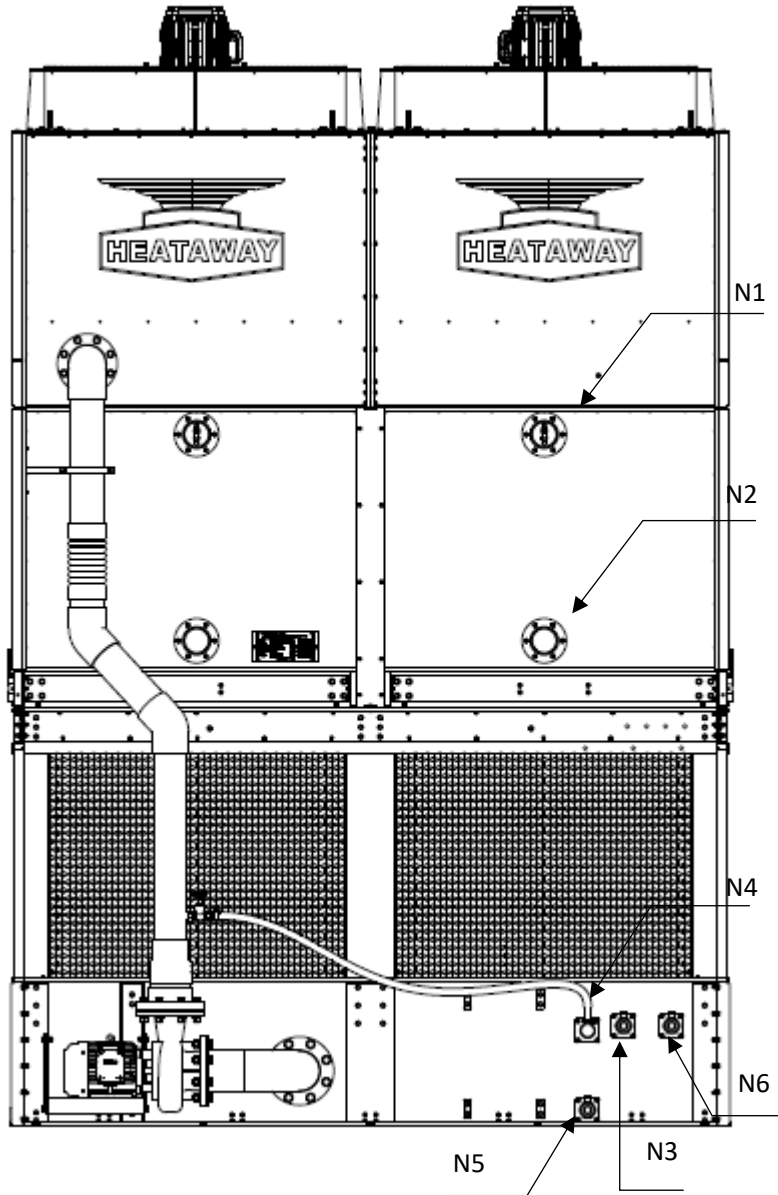
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EC9-3210-1218C-M

EC9-3500-1218C-M

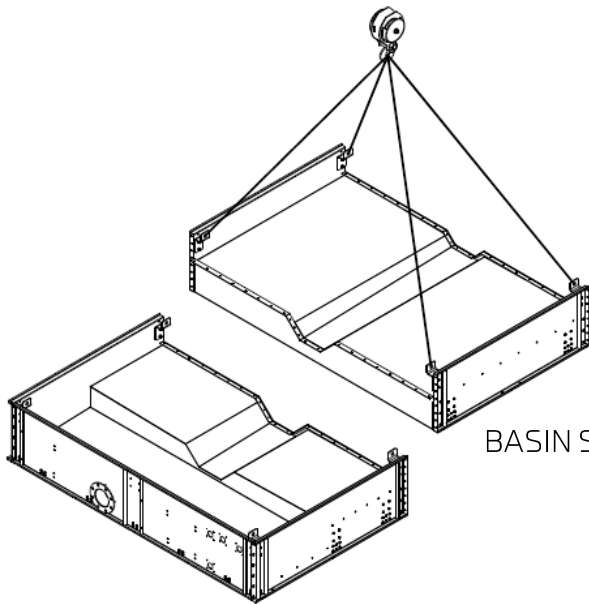
EC9-3800-1218C-L





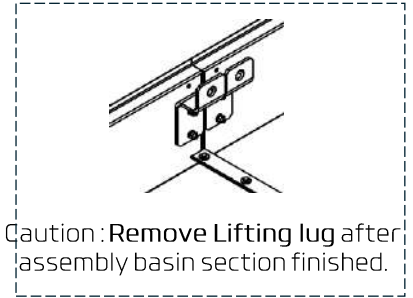
PIPING CONNECTION					
MARK	DESCRIPTION	Q'TY	SIZE	THREAD	VALVE
N1	REFRIGERANT INLET	2	4"	-	-
N2	REFRIGERANT OUTLET	2	4"	-	-
N3	MAKE UP WATER	1	2"	BSPT(F)	BALL VALVE
N4	OVER FLOW	1	2"	BSPT(M)	-
N5	DRAIN	1	2"	BSPT(F)	BALL VALVE
N6	QUICK REFILL	1	2"	BSPT(F)	BALL VALVE

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

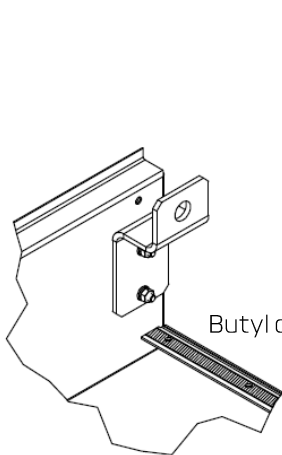


BASIN SECTION-M

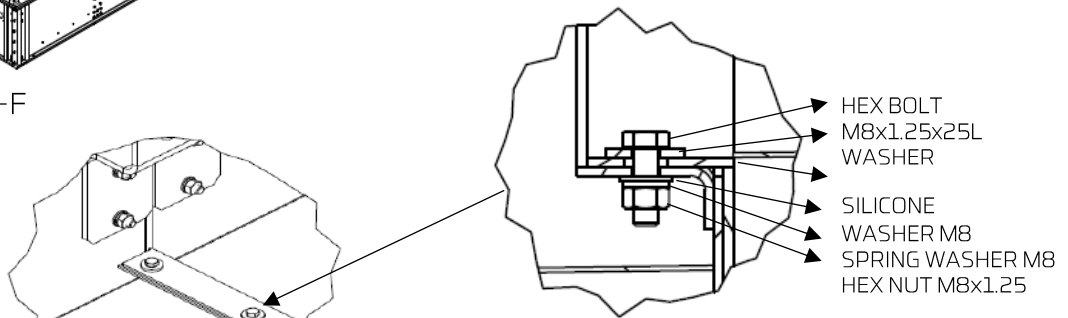
BASIN SECTION-F



Caution : Remove Lifting lug after assembly basin section finished.

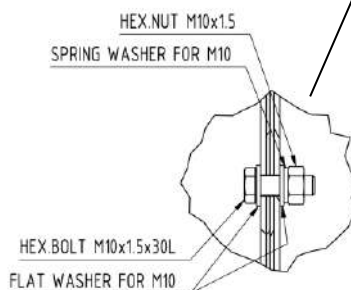


Butyl on Surface

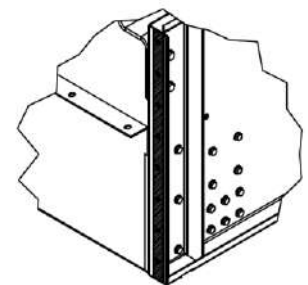


- HEX BOLT M8x1.25x25L
- WASHER
- SILICONE WASHER M8
- SPRING WASHER M8
- HEX NUT M8x1.25

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

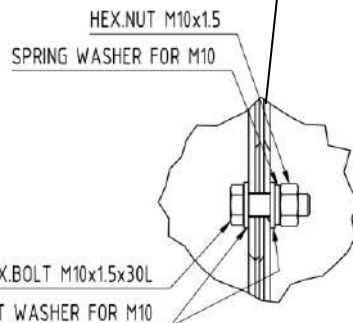
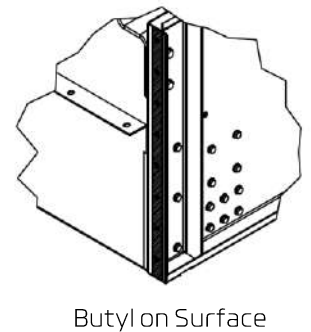
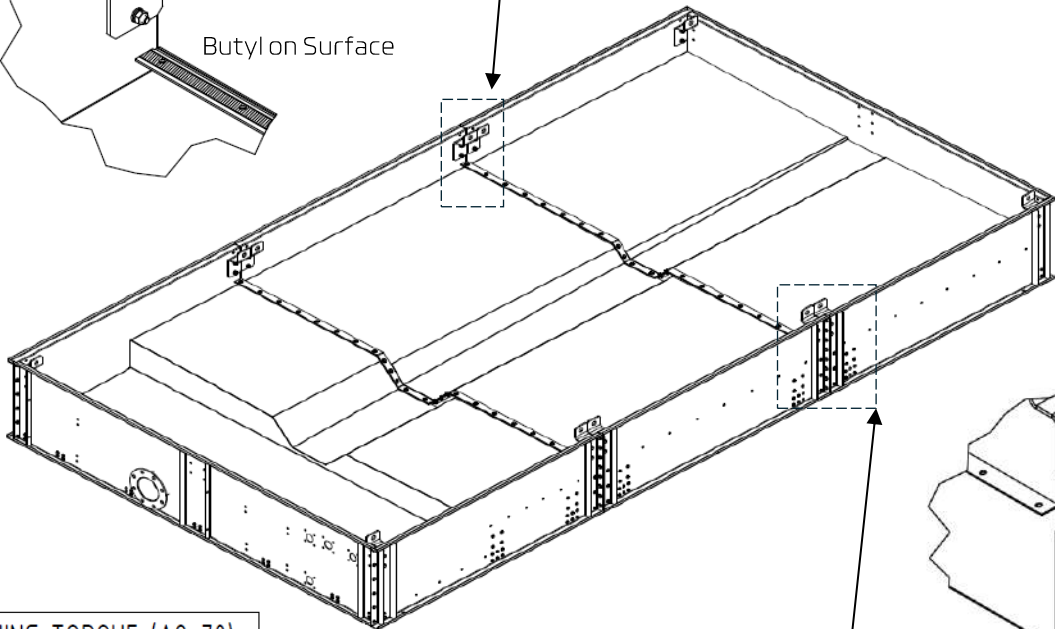
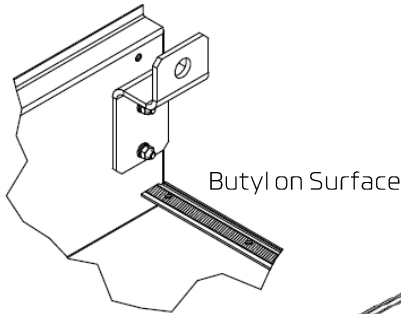
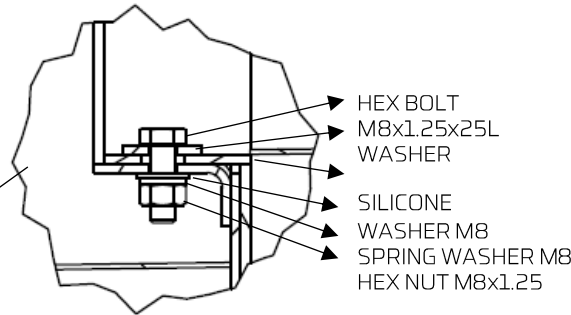
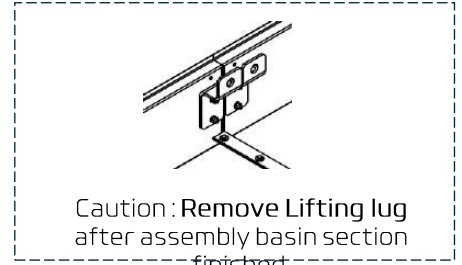
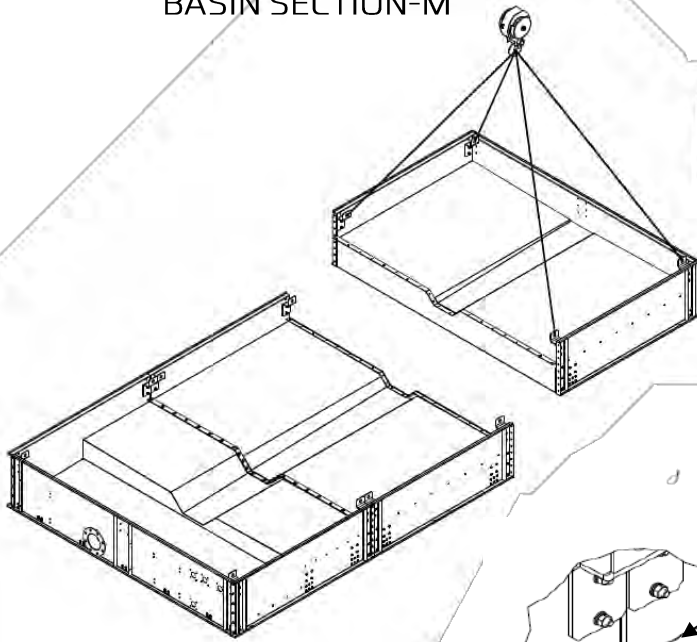


- HEX.NUT M10x1.5
- SPRING WASHER FOR M10
- HEX BOLT M10x1.5x30L
- FLAT WASHER FOR M10



Butyl on Surface

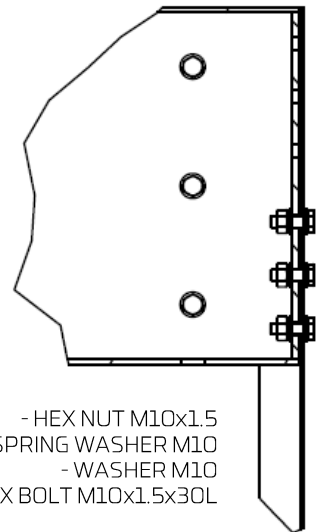
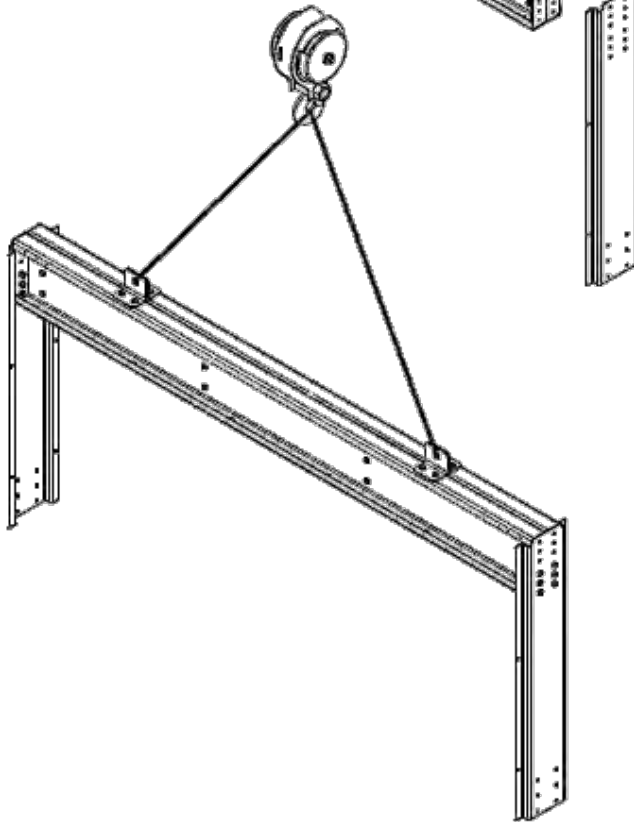
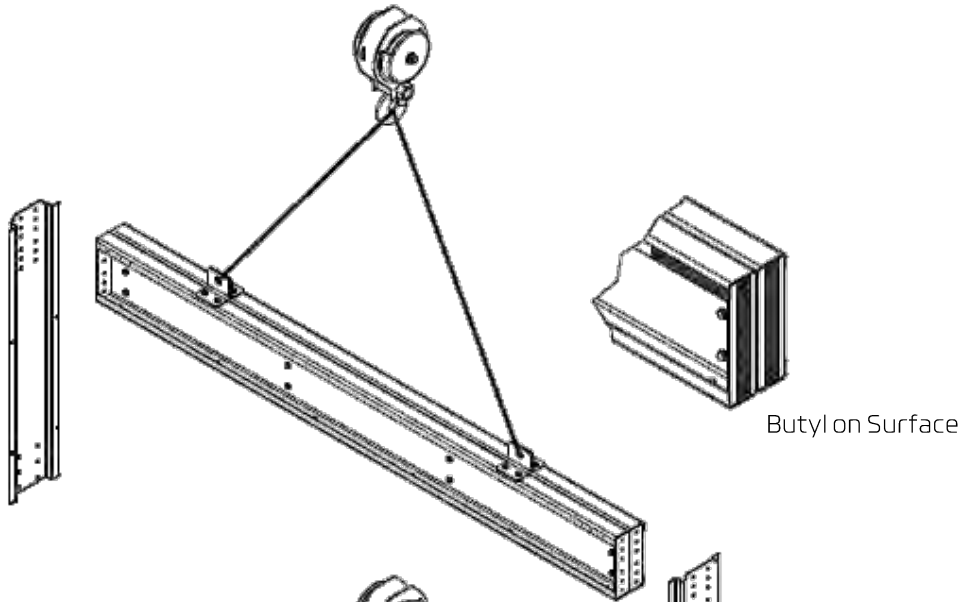
► Step 2 : Assembly "BASIN SECTION-B" with "BASIN SECTION-F" And "BASIN SECTION-M"



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



## ► Step 3 : Assembly Frame Support

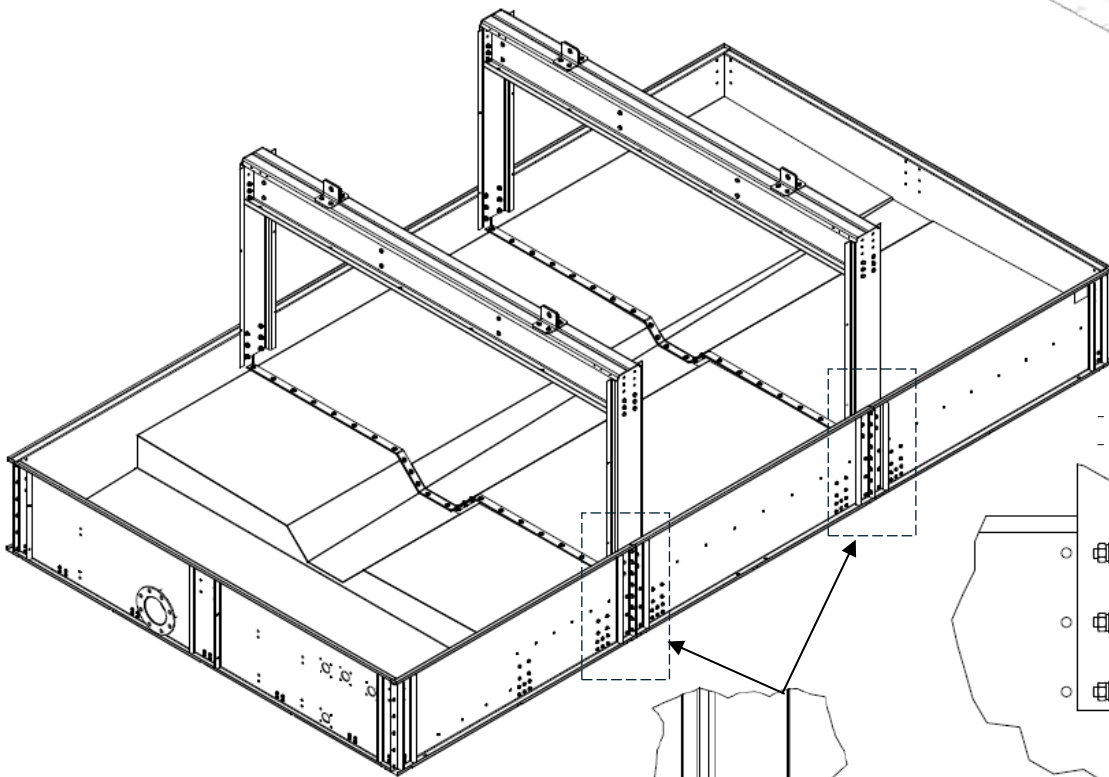
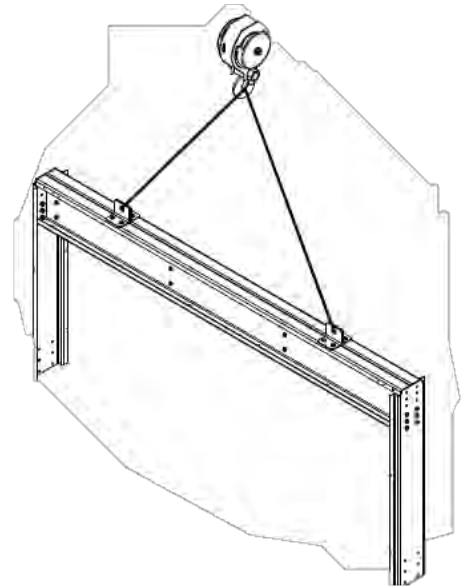
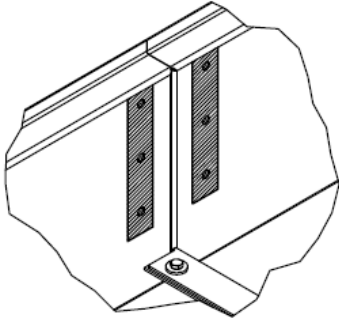


### TIGHTENING TORQUE (A2-70)

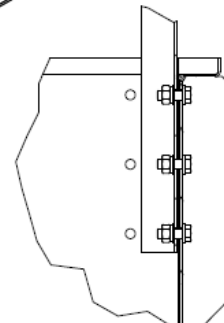
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

► Step 4 : Assembly Frame Support with BASIN Set Assembly

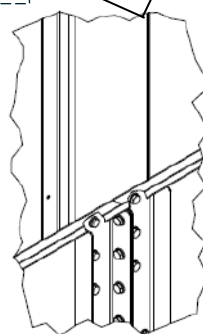
Butyl on Surface



- HEX BOLT M10x1.5x30L  
- WASHER M10

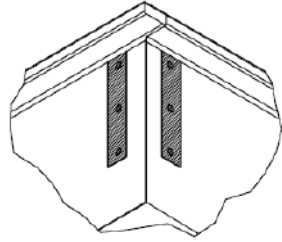


- SPRING WASHER M10  
- HEX NUT M10x1.5

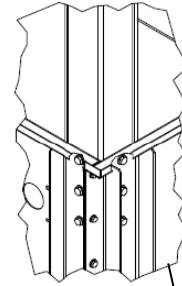


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

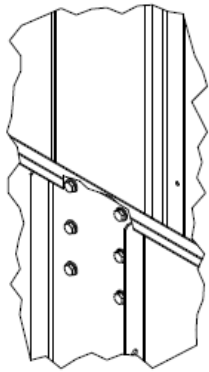
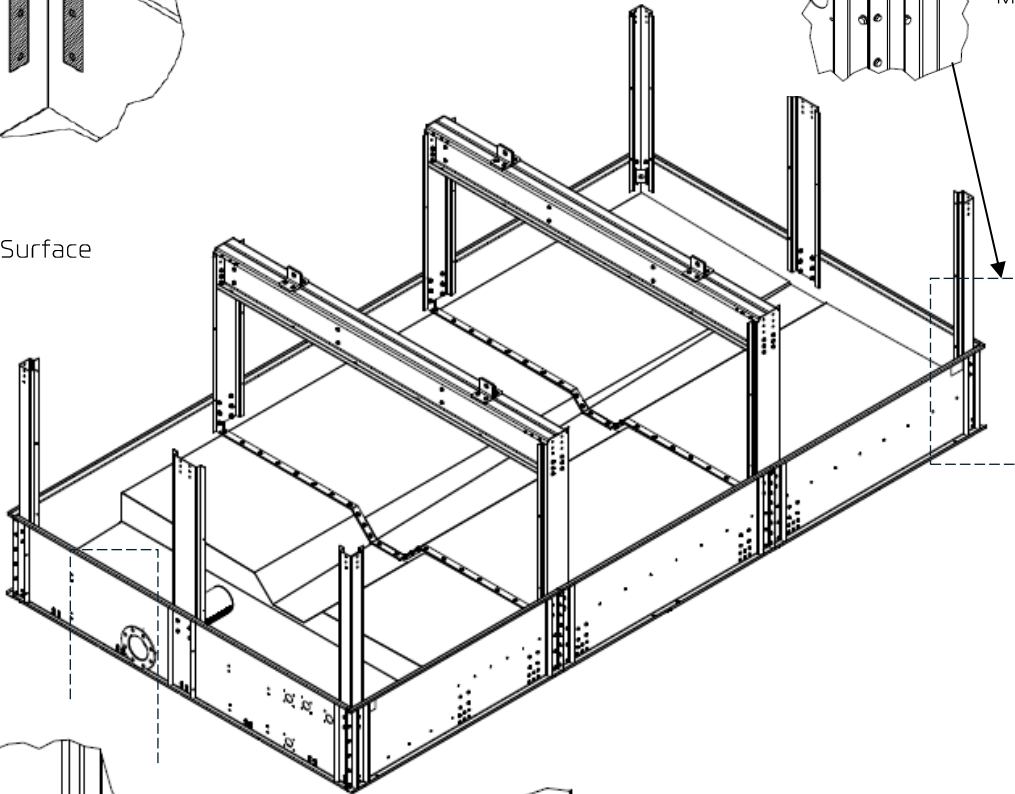
► Step 5 : Assembly Frame Support with BASIN Set Assembly



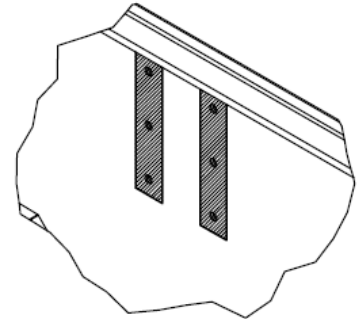
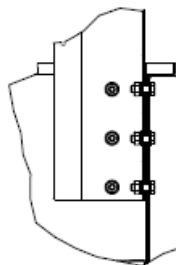
Butyl on Surface



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



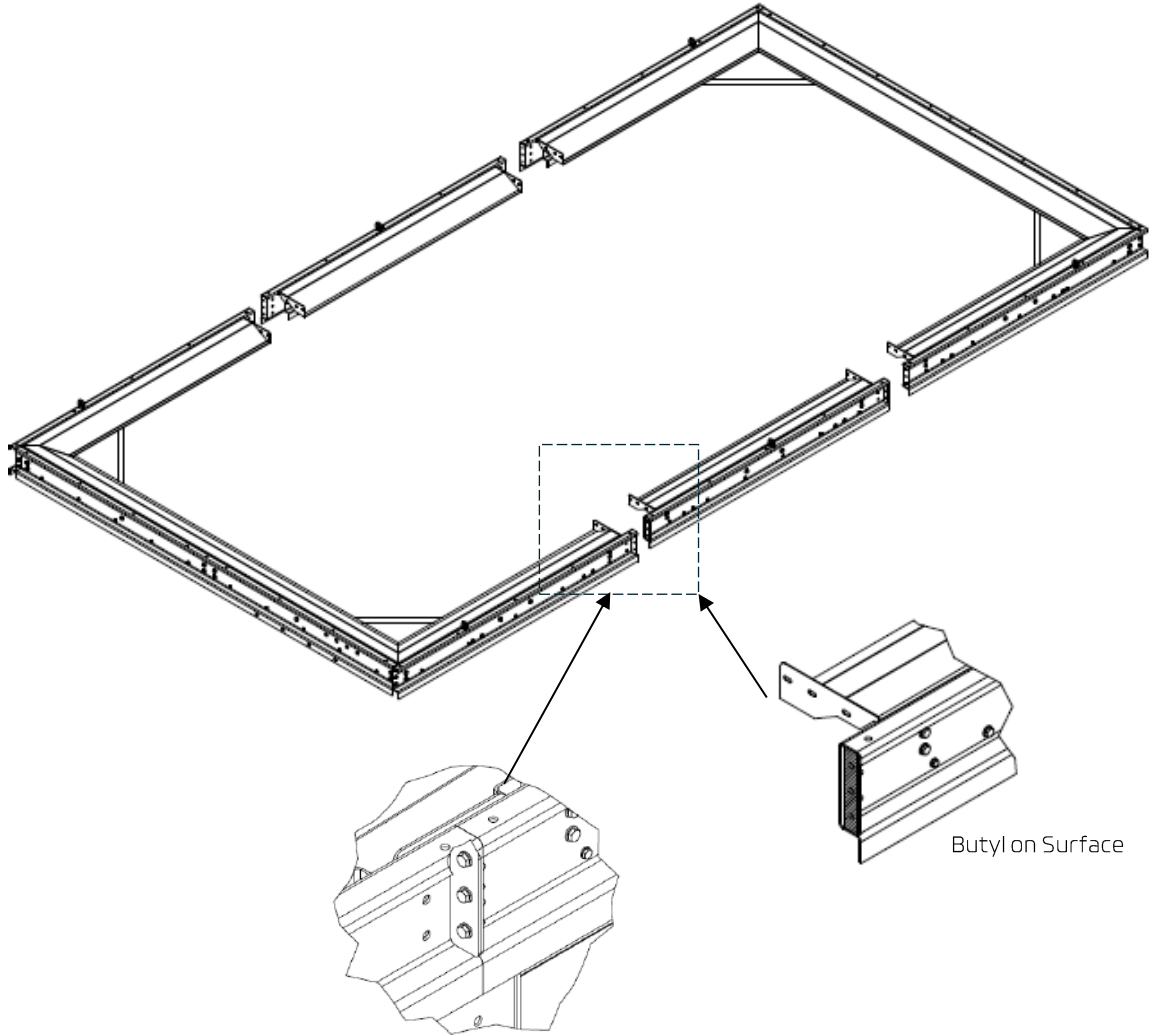
- HEX BOLT M10x1.5x30L
- WASHER M10
- HEX NUT M10



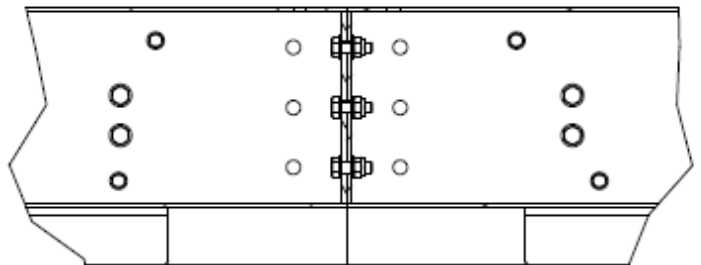
Butyl on Surface

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

► Step 6 : Assembly Top Frame of BASIN SECTION



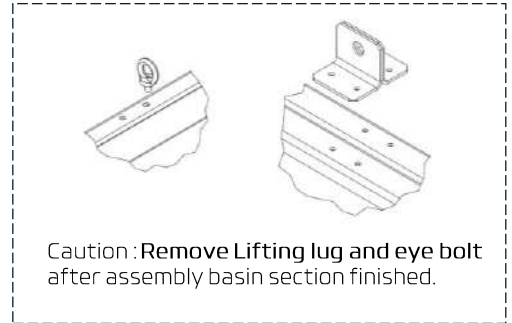
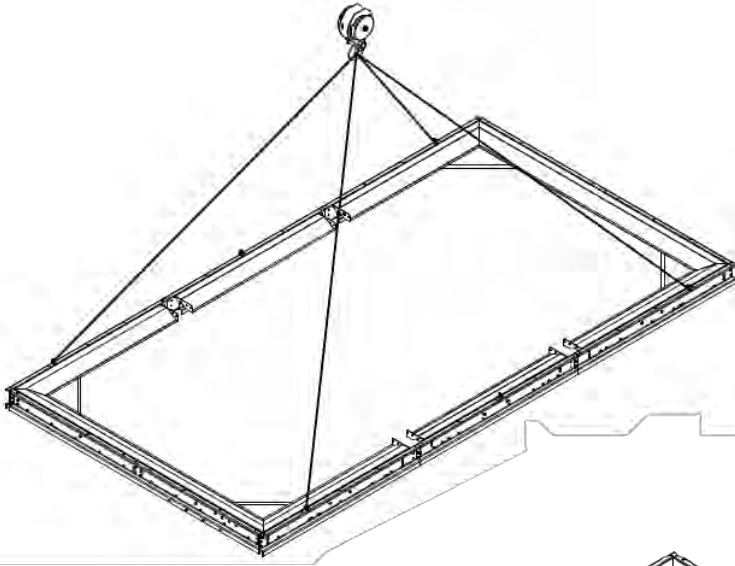
Butyl on Surface



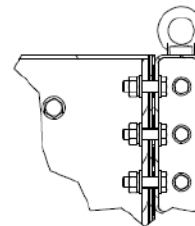
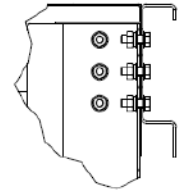
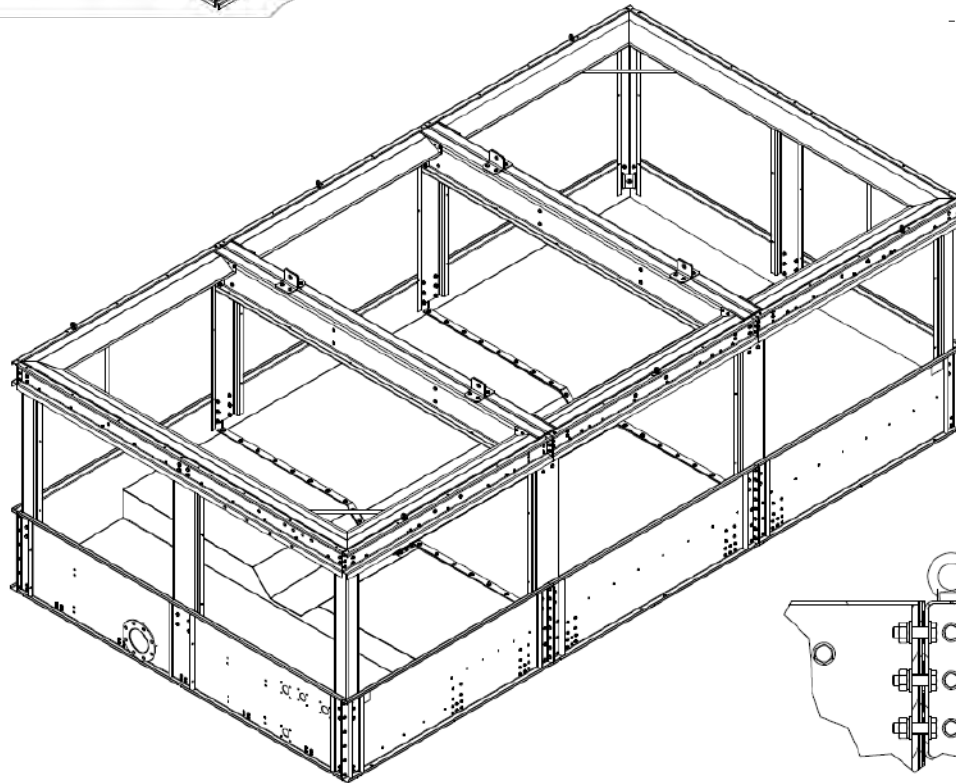
HEX BOLT  
M8x1.25x25L  
WASHER M8  
HEX.LOCK NUT  
M8x1.25

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

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



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



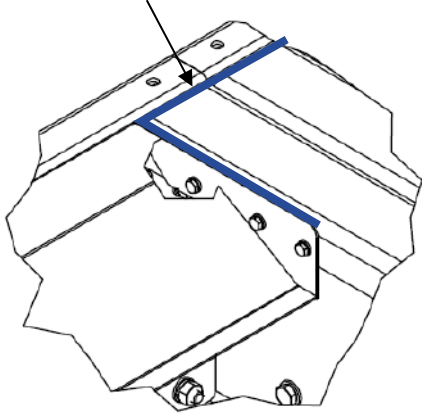
- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x35L

TIGHTENING TORQUE (A2-70)

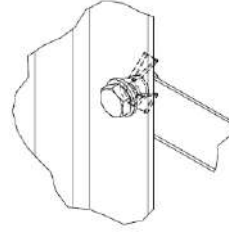
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## ► Step 8 : Assembly support frame and Deflector

SILICONE ON SURFACE

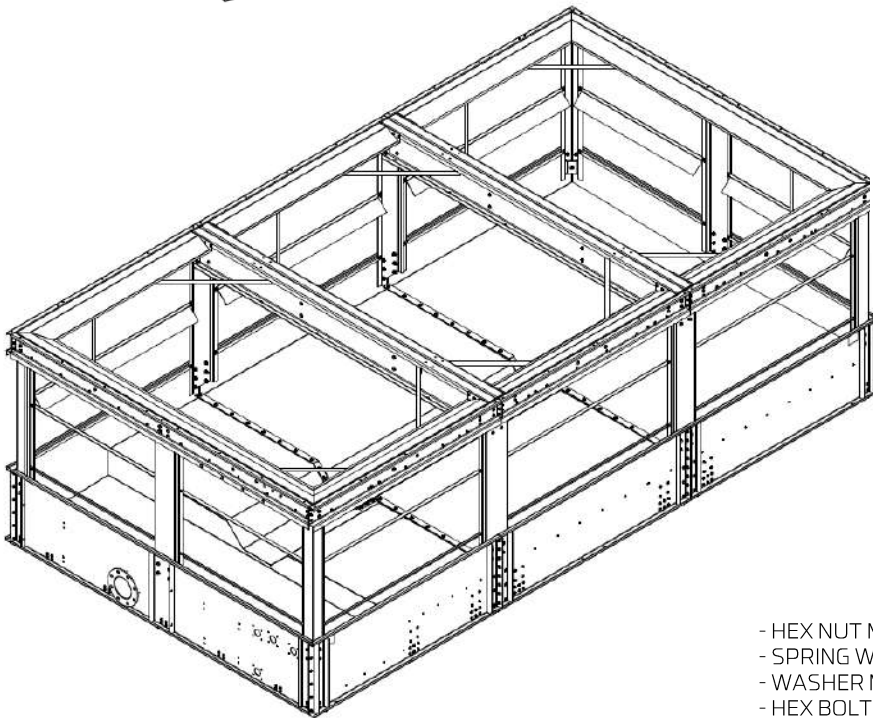
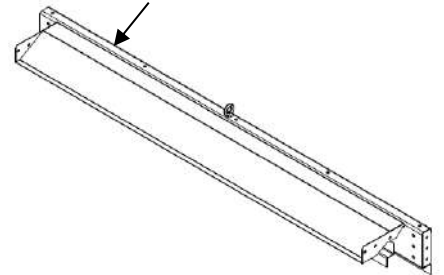


- HEX NUT M6x1
- SPRING WASHER M6
- WASHER M6
- HEX BOLT M6x1x20L

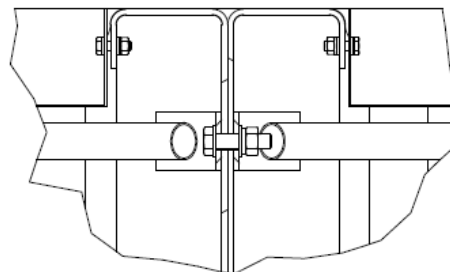


- LIIFTING EYE BOLT  
M10x1.5x17L
- WASHER FOR M10
- HEX NUT M10x1.5

SILICONE AND BUTYL ON SURFACE



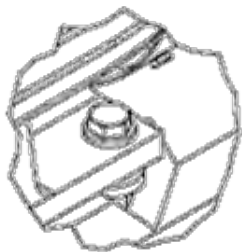
- HEX NUT M10x1.5
- SPRING WASHER M10
- WASHER M10
- HEX BOLT M10x1.5x30L



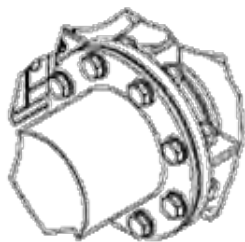
### TIGHTENING TORQUE (A2-70)

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

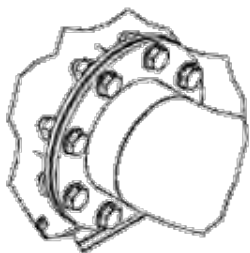
➤ Step 9 : Install water pipe and Ball Float Valve to BASIN SECTION



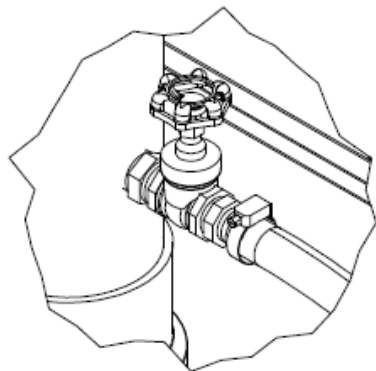
HEX NUT M12x1.75  
SPRING WASHER FOR M12  
WASHER FOR M12  
HEX BOLT M12x1.75x50L



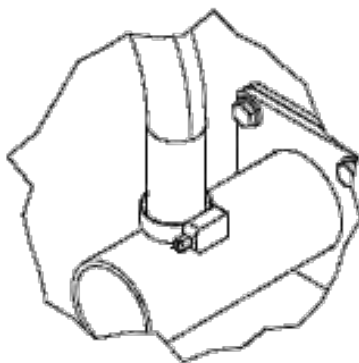
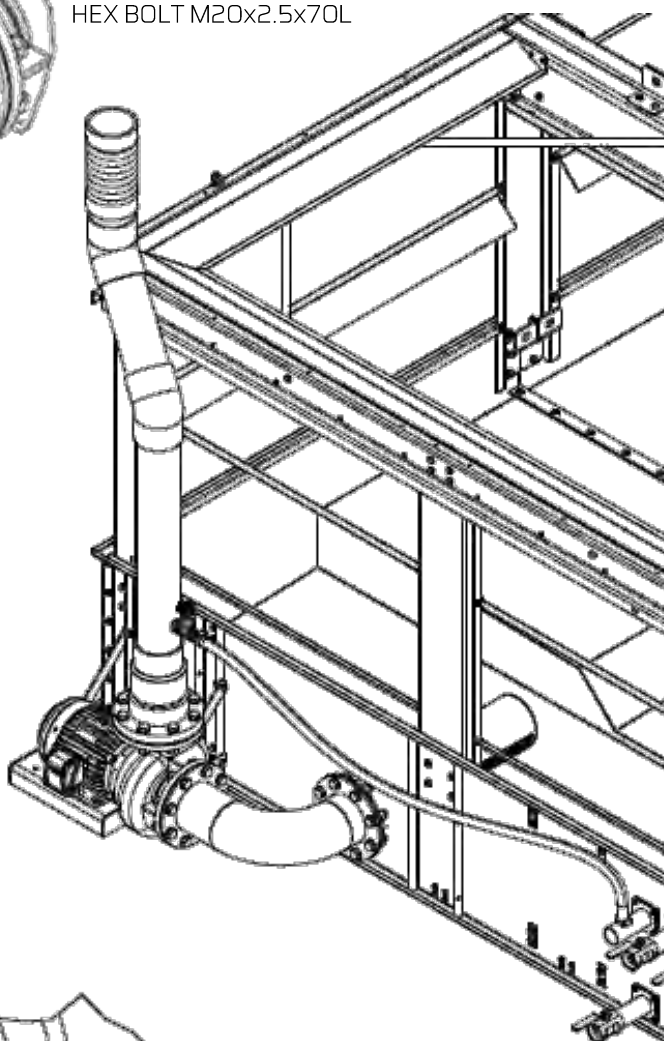
HEX NUT M20x2.5  
SPRING WASHER FOR M20  
WASHER FOR M20  
HEX BOLT M20x2.5x70L



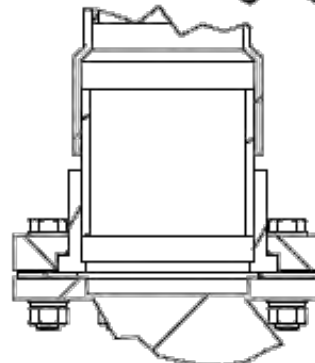
HEX NUT M20x2.5  
SPRING WASHER FOR M20  
WASHER FOR M20  
HEX BOLT M20x2.5x60L



HOSE CLAMP 1"  
TEXTILE HOSE 1"



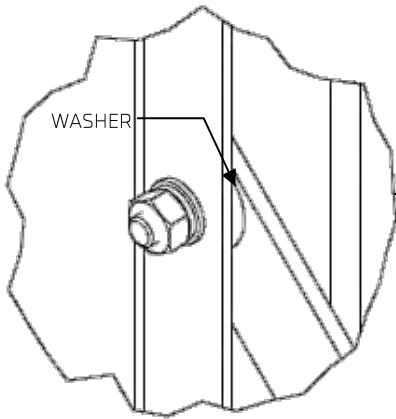
HOSE CLAMP 1"  
TEXTILE HOSE 1"



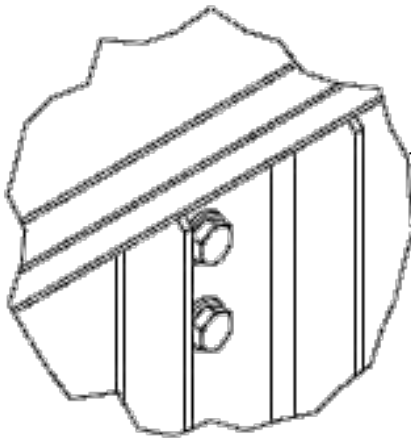
HEX BOLT M20 x90L  
HEX LOCK NUT M20  
WASHER FOR M20  
SPRING WASHER FOR M20

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

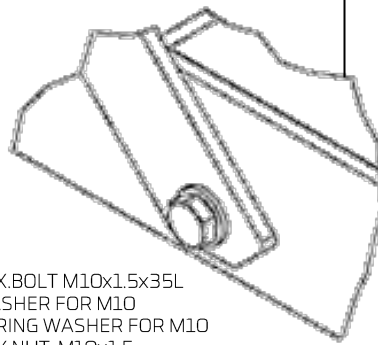
➤ Step 10 : Pump set assembly and install to BASIN SECTION



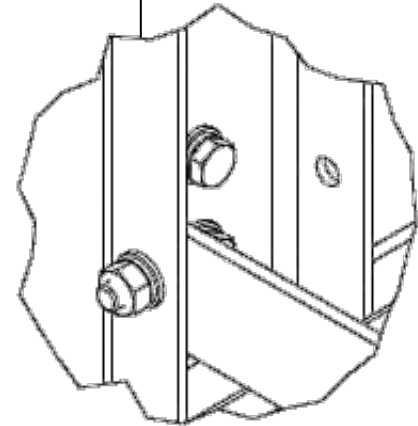
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



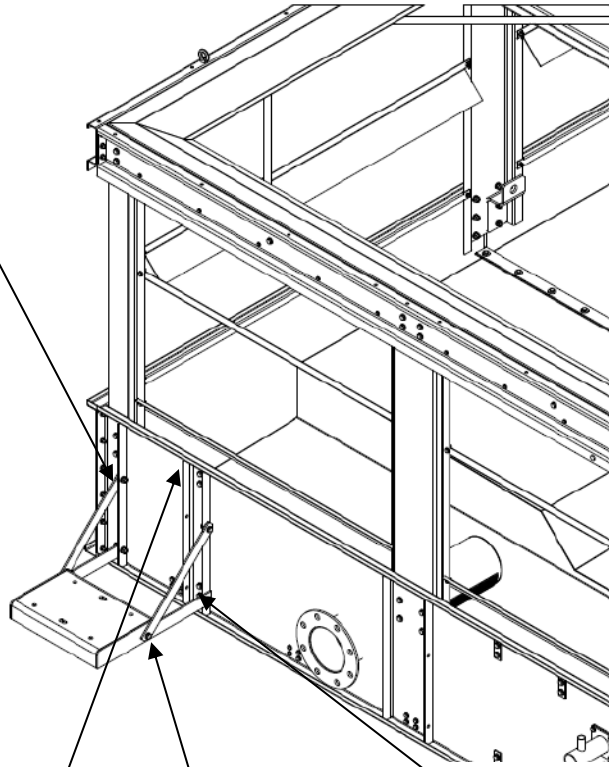
HEX.BOLT M10x1.5x25L  
WASHER FOR M10  
HEX.NUT LOCK M10x1.5



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



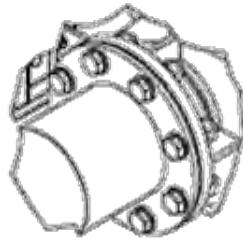
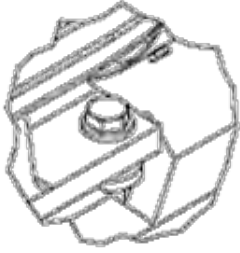
HEX.BOLT M10x1.5x30L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



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

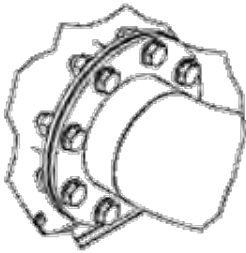


➤ Step 10 : Pump set assembly and install to BASIN SECTION

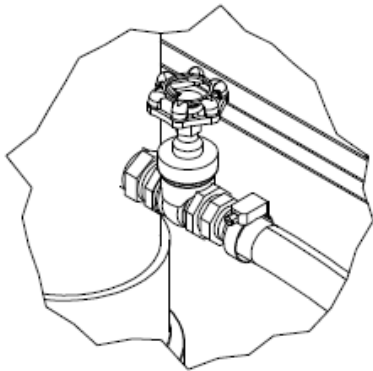
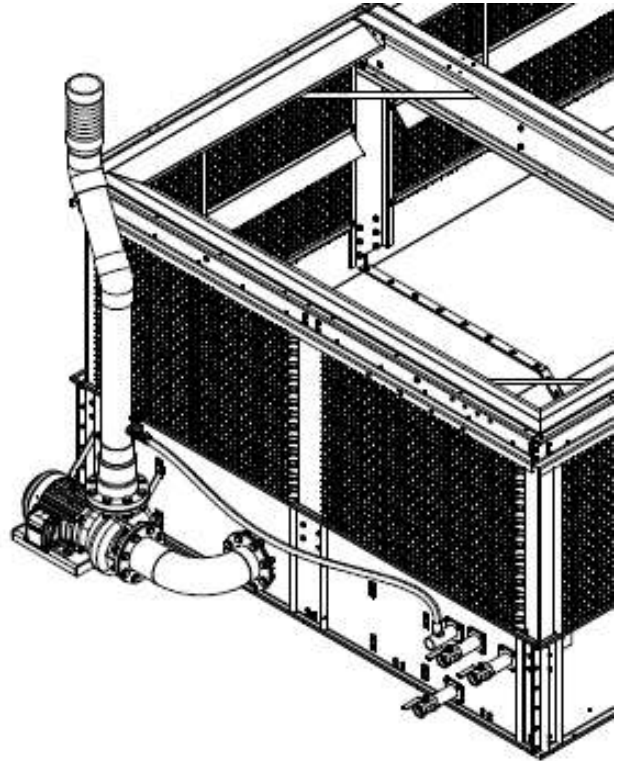


HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x70L

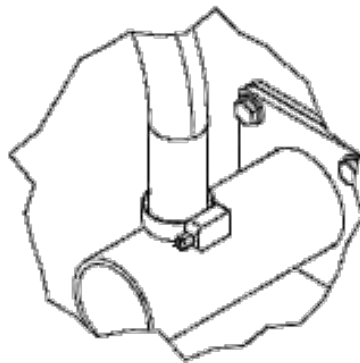
HEX NUT M12x1.75  
 SPRING WASHER FOR M12  
 WASHER FOR M12  
 HEX BOLT M12x1.75x50L



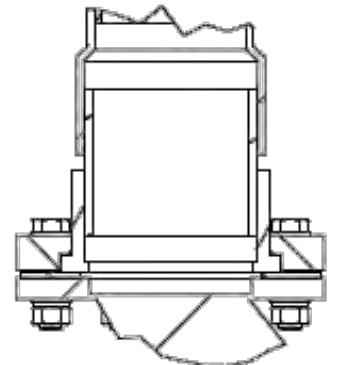
HEX NUT M20x2.5  
 SPRING WASHER FOR M20  
 WASHER FOR M20  
 HEX BOLT M20x2.5x60L



HOSE CLAMP 1"  
 TEXTILE HOSE 1"



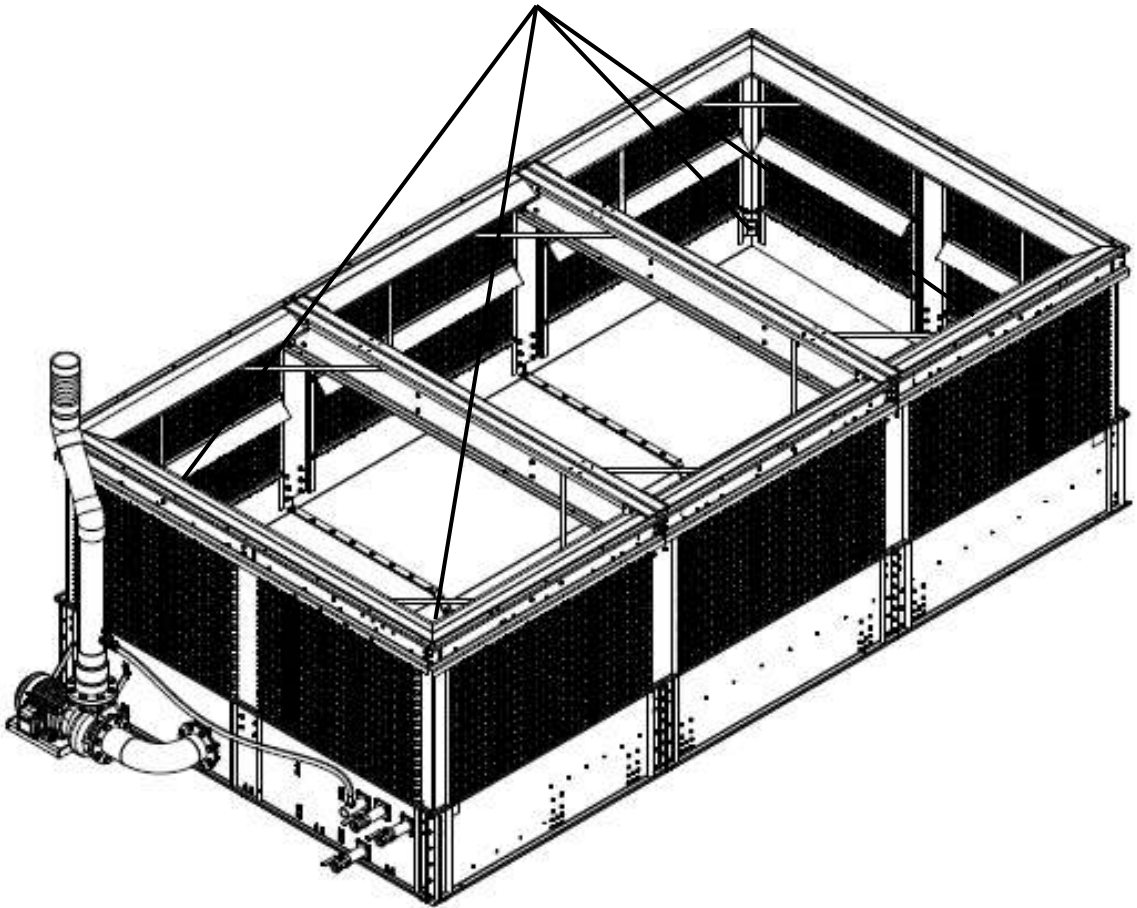
HOSE CLAMP 1"  
 TEXTILE HOSE 1"



HEX BOLT M20x90L  
 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

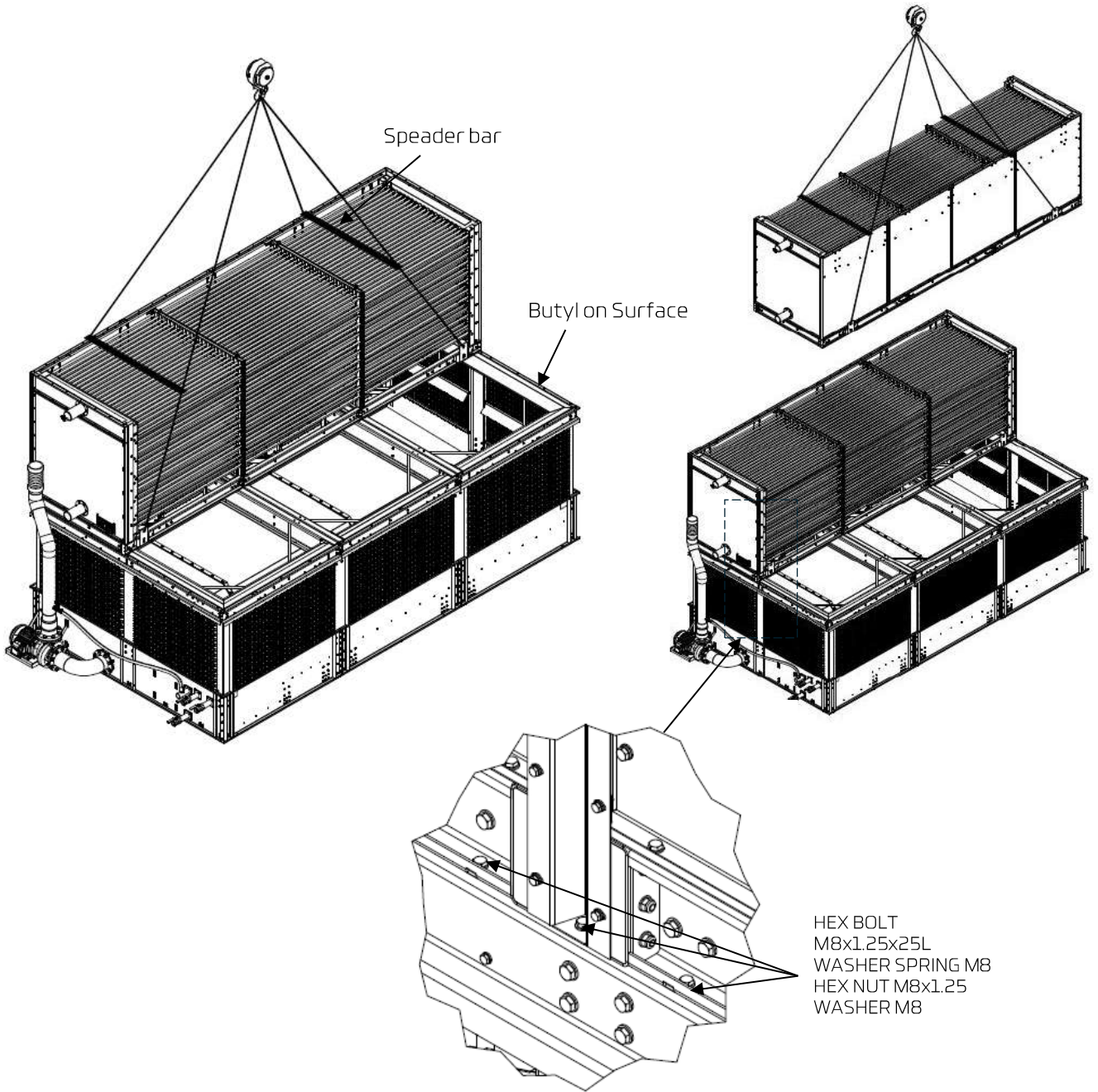
Move BASIN SECTION to position



### TIGHTENING TORQUE (A2-70)

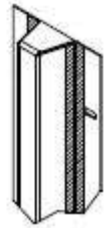
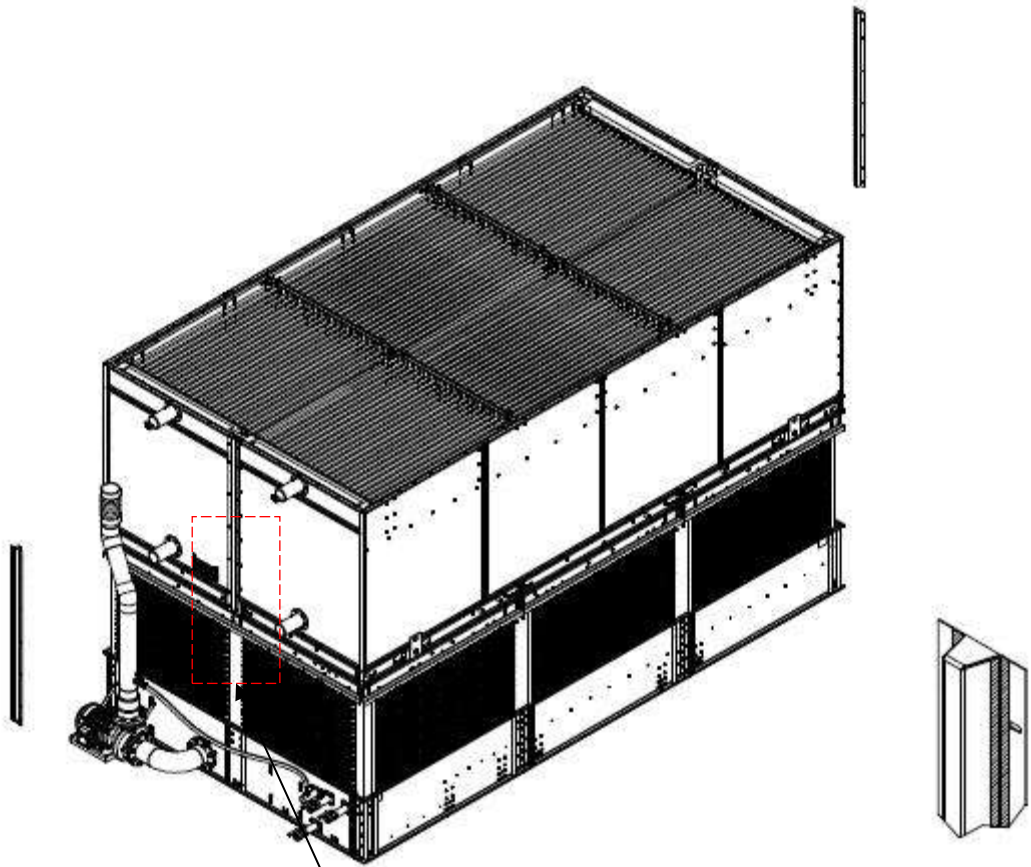
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

## >> Assembly Coil Section L and R on Basin



### TIGHTENING TORQUE (A2-70)

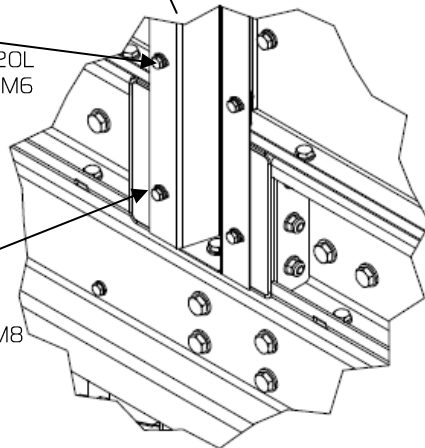
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



BUTYL ON SURFACE

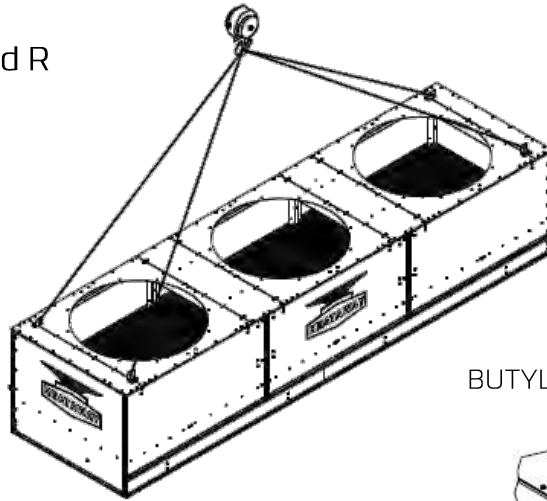
HEX BOLT M6x1x20L  
WASHER SPRING M6  
HEX NUT M6x1  
WASHER M6

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

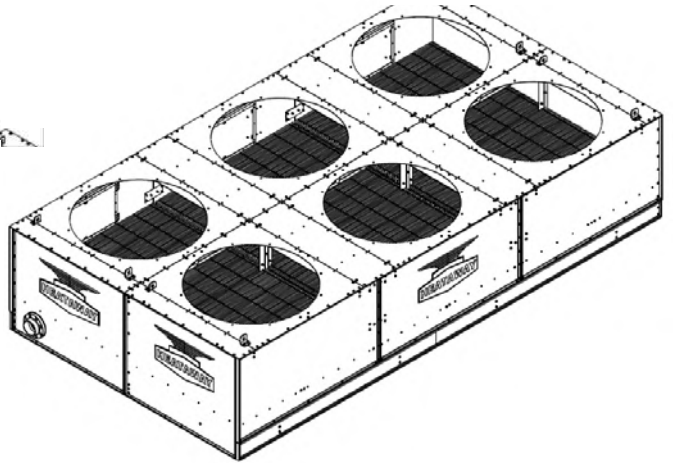
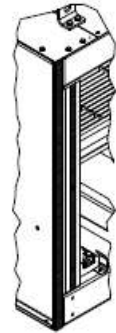
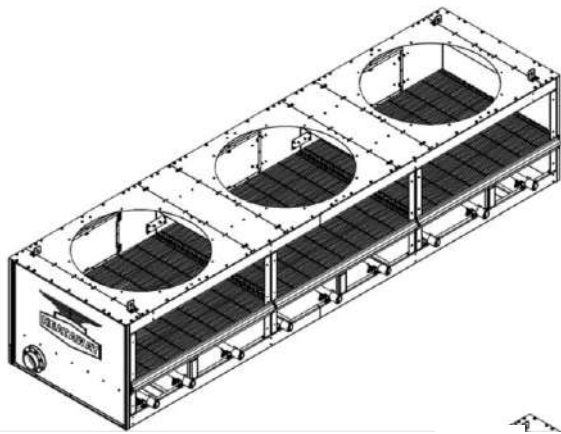


TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0

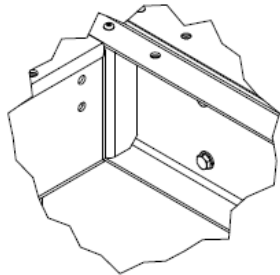
>> Assembly FAN Section L and R



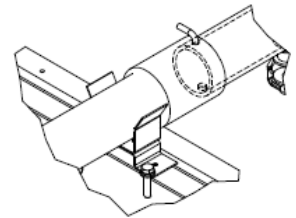
BUTYL ON SURFACE



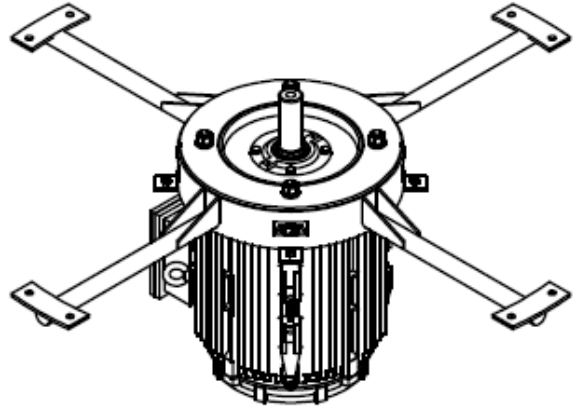
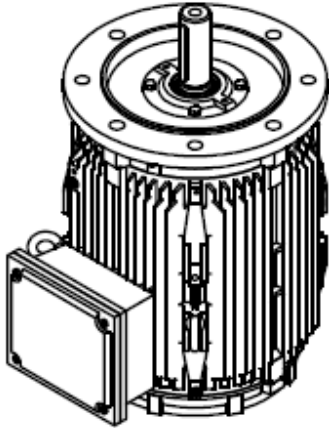
HEX BOLT  
M8x1.25x25L  
WASHER SPRING M8  
HEX NUT M8x1.25  
WASHER M8



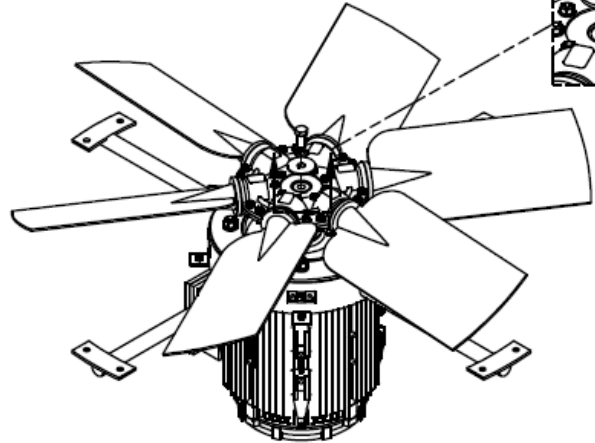
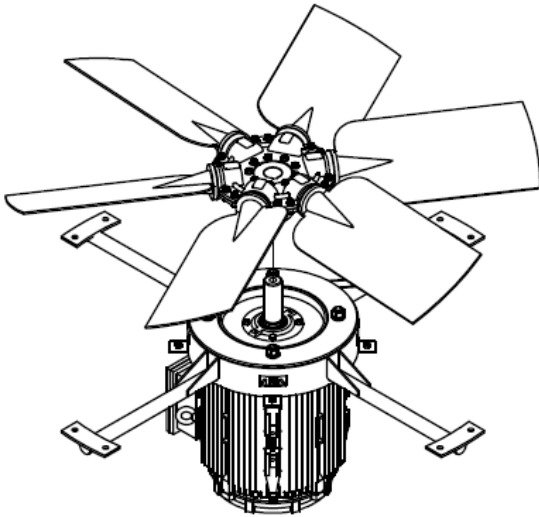
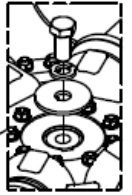
HEX BOLT  
M8x1.25x25L  
WASHER SPRING M8  
HEX NUT M8x1.25  
WASHER M8



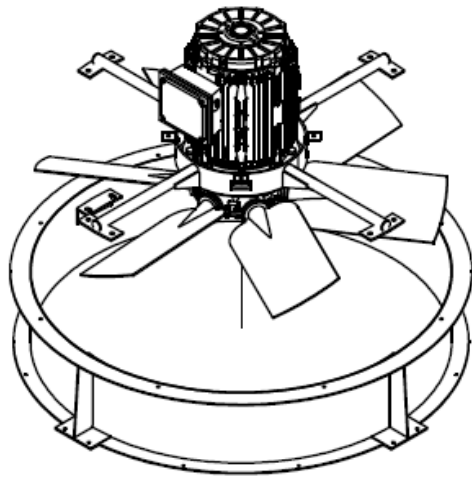
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



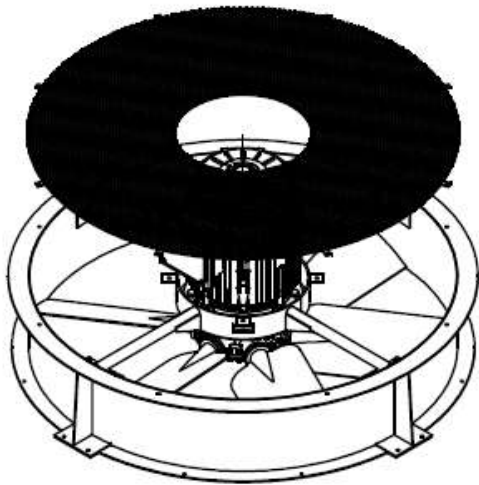
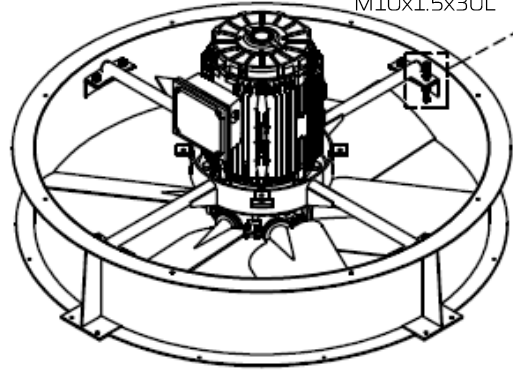
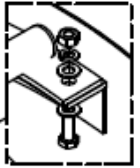
HEX NUT M16  
 SPRING WASHER FOR  
 M16  
 WASHER FOR M16  
 HEX BOLT M16x1.5x60L



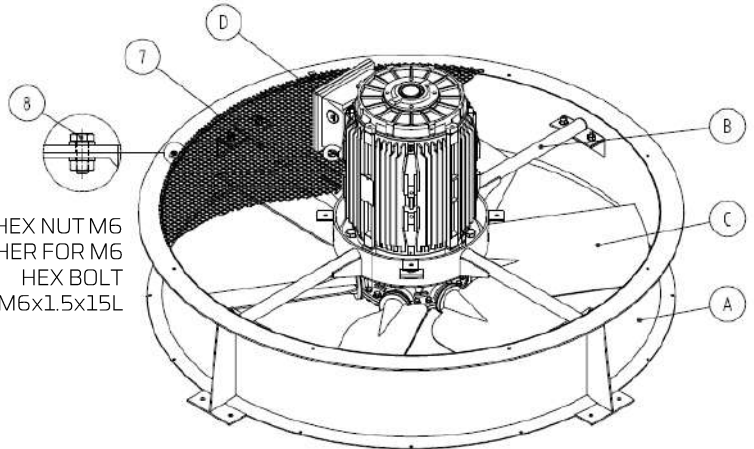
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



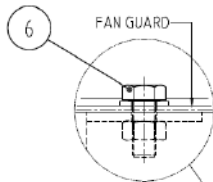
HEX NUT M10  
 SPRING WASHER FOR  
 M10  
 WASHER FOR M10  
 HEX BOLT  
 M10x1.5x30L



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



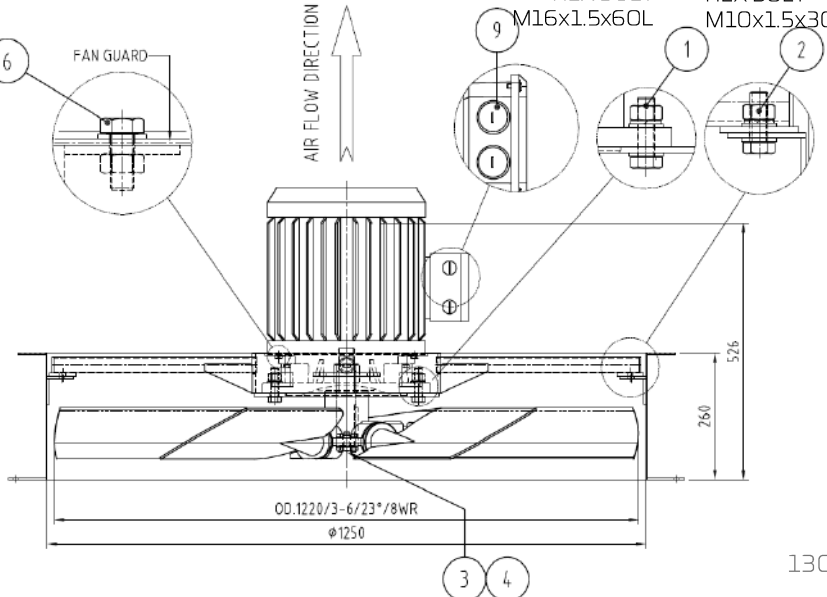
HEX NUT M8  
 WASHER FOR M8  
 HEX BOLT  
 M8x1.5x15L



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

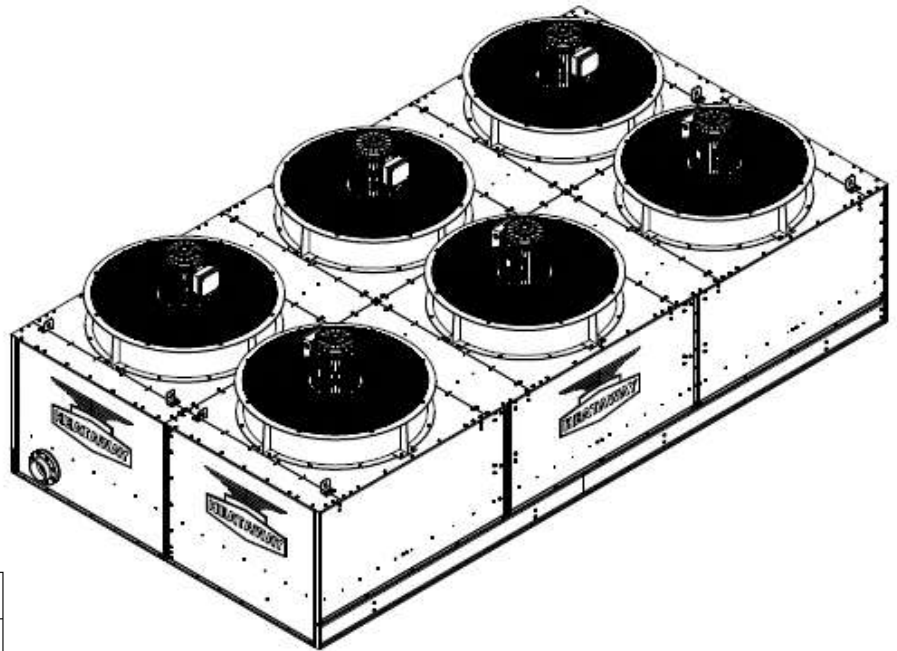
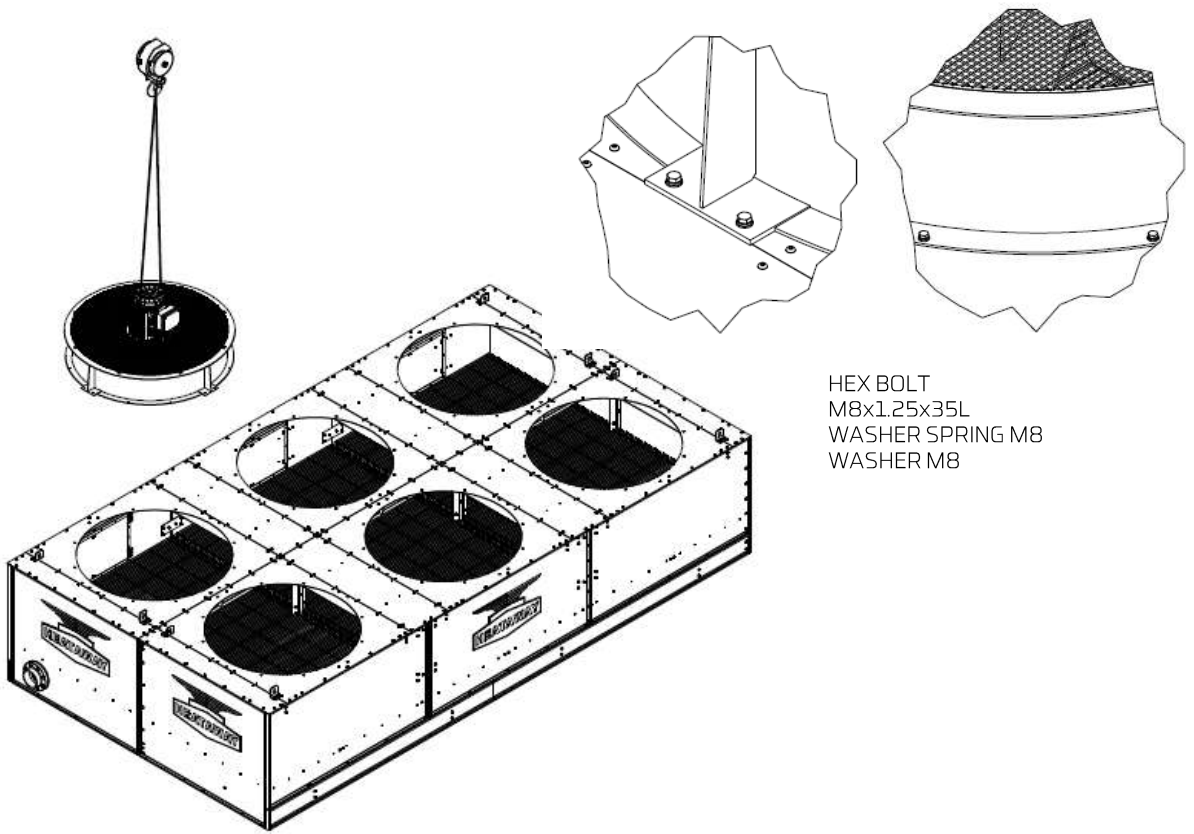
HEX NUT M10  
 SPRING WASHER FOR  
 M10  
 WASHER FOR M10  
 HEX BOLT  
 M10x1.5x30L

AIR FLOW DIRECTION



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

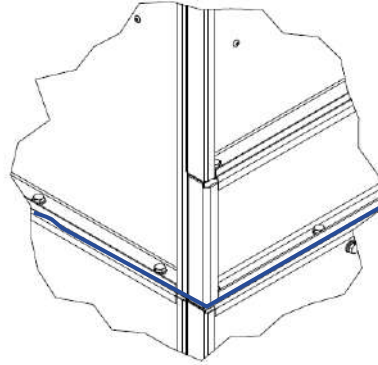
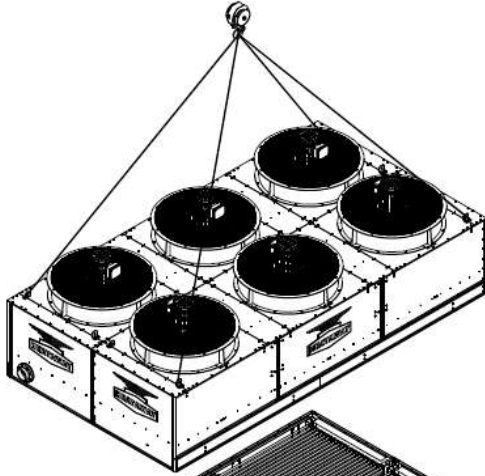
>> Install FAN set With Motor to FAN Section



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

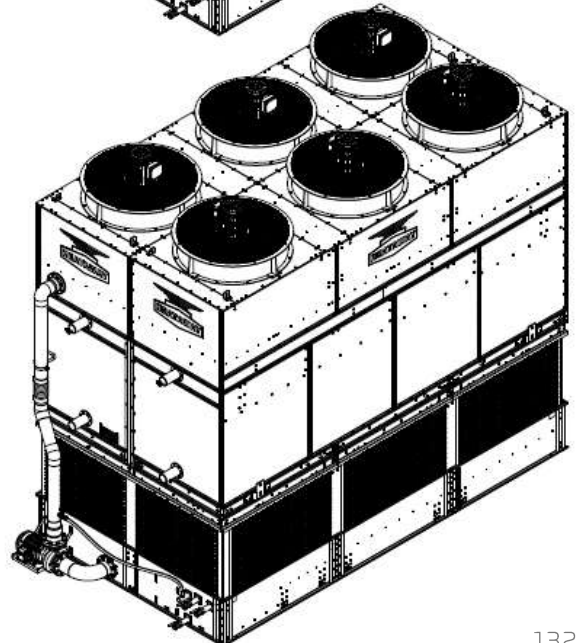
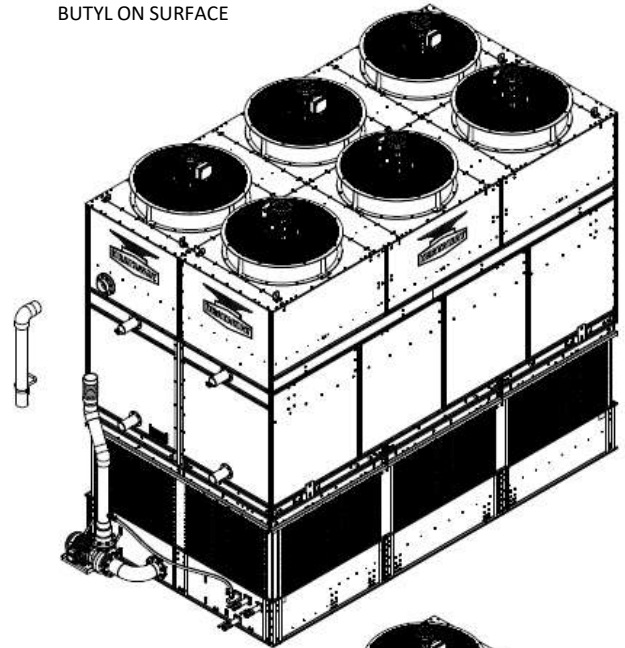
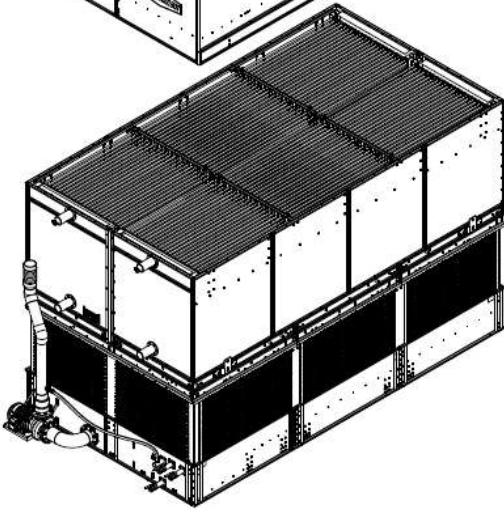


## >> Install FAN Section



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

BUTYL ON SURFACE



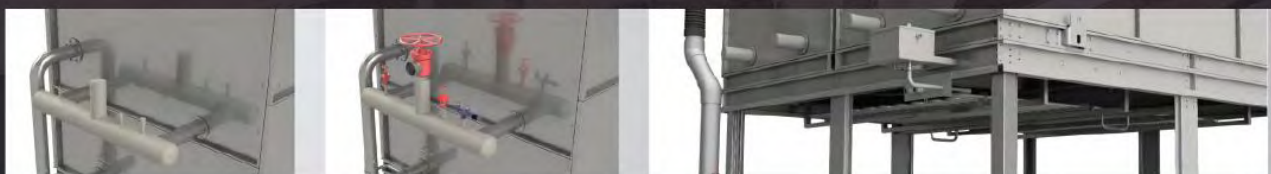
TIGHTENING TORQUE (A2-70)	
M	TORQUE (Nm)
6	7.0
8	17.0
10	33.0
12	57.0
16	140.0



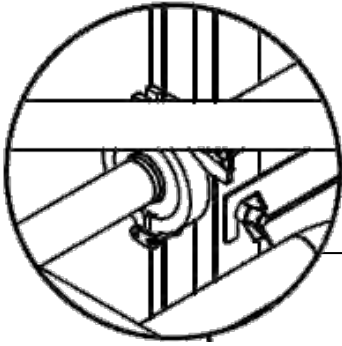
BRAND-NEW  
9<sup>th</sup> GENERATION

## RIGGING & ASSEMBLY INSTRUCTION

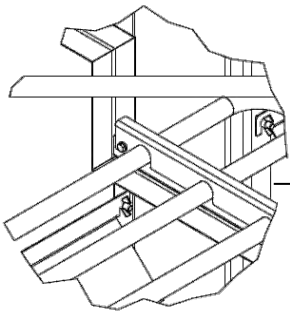
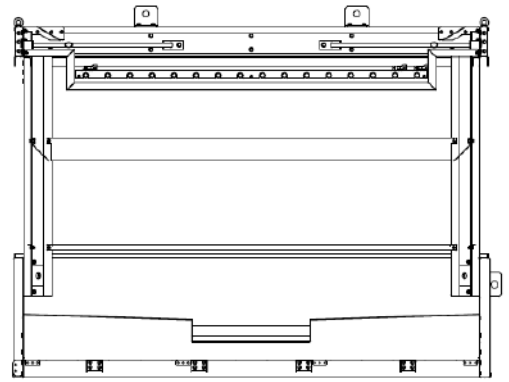
### ADDITIONAL EQUIPMENT



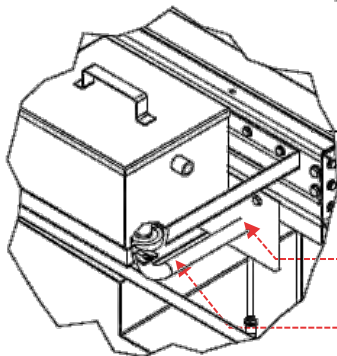
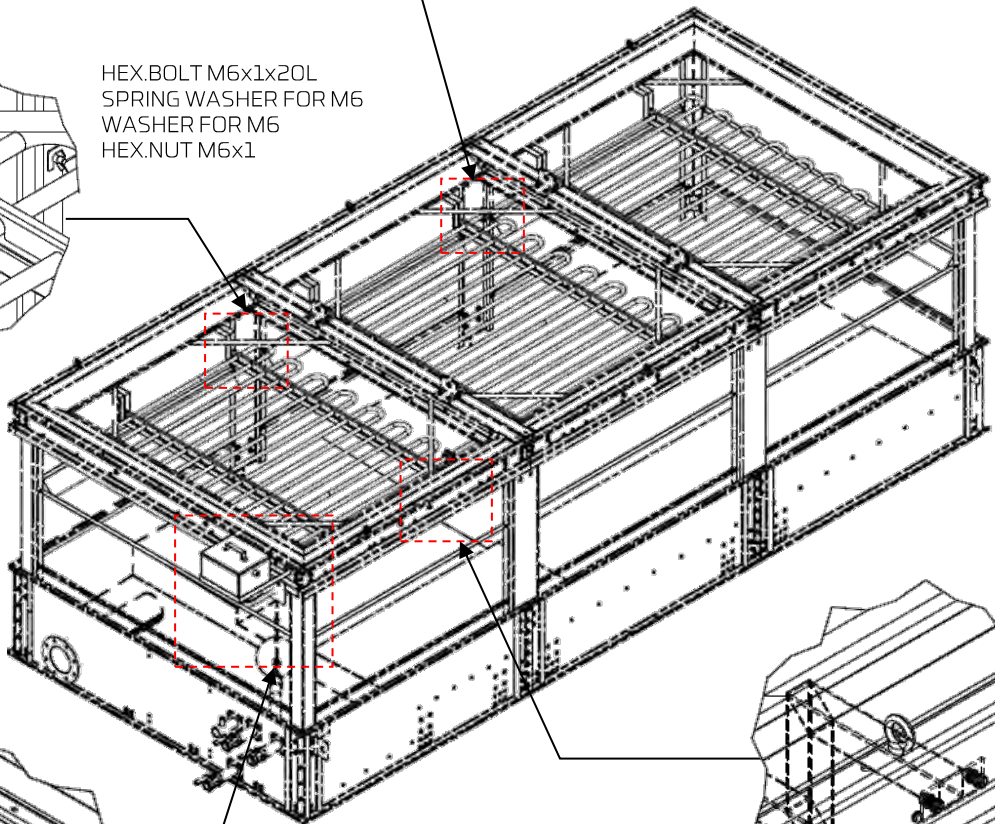
## ► Water Cooling Coil ( 1 Layer Type )



FERRULE GASKET 25.4 mm.  
FERRULE CLAMP 25.4 mm.

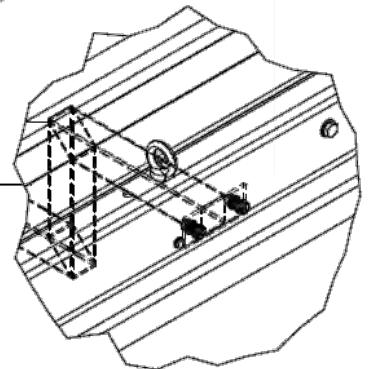


HEX.BOLT M6x1x20L  
SPRING WASHER FOR M6  
WASHER FOR M6  
HEX.NUT M6x1



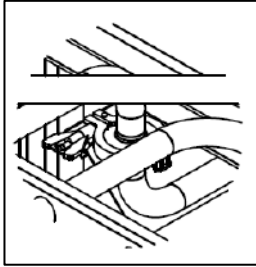
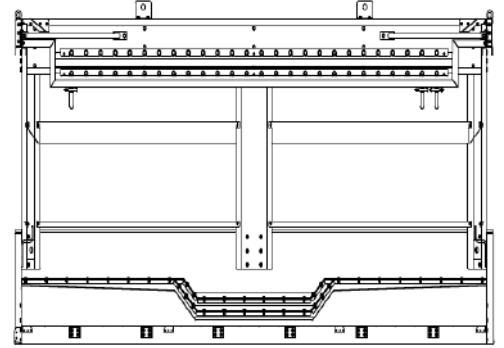
HEX.BOLT M8x1.5x20L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M5x1.5

FERRULE GASKET 25.4 mm.  
FERRULE CLAMP 25.4 mm.

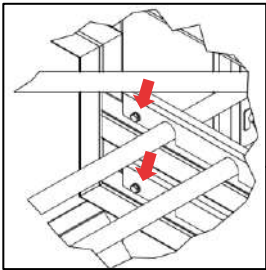


HEX.BOLT M8x1.5x21L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M5x1.5

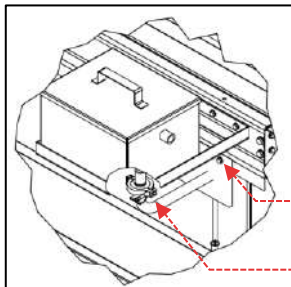
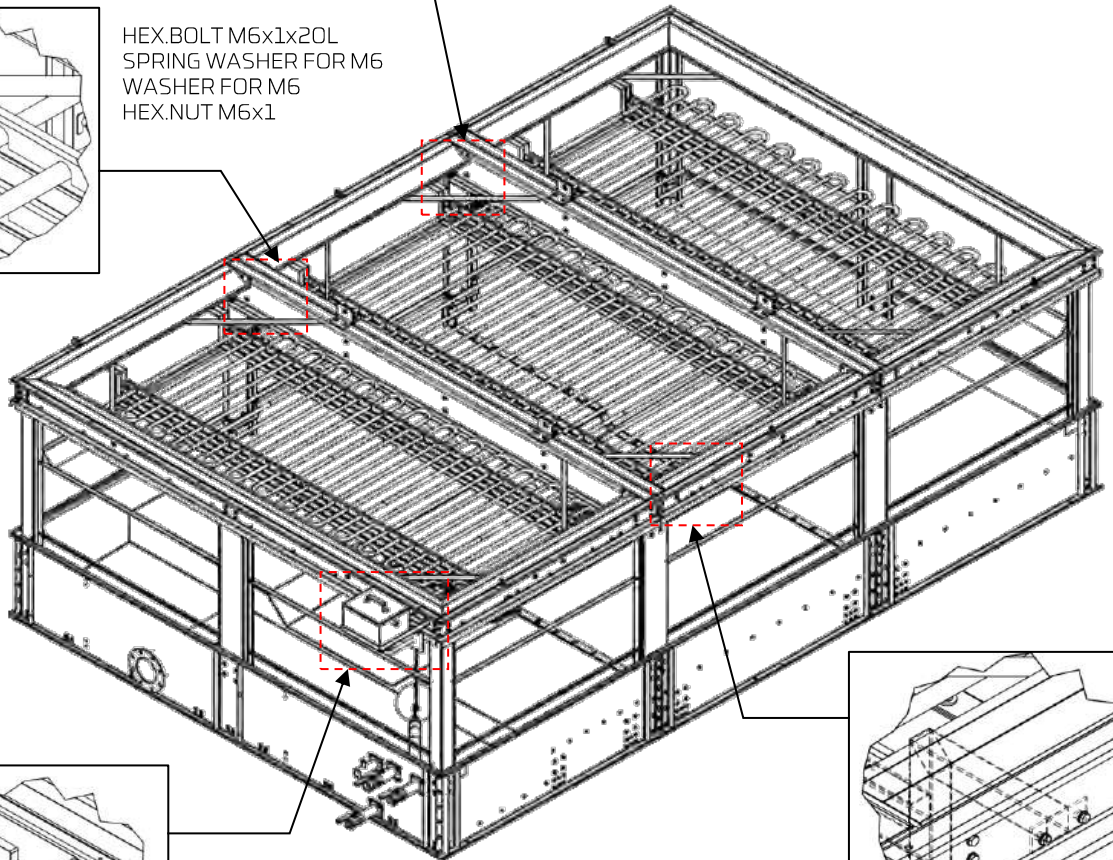
## ► Water Cooling Coil ( 2 Layer Type )



FERRULE GASKET 25.4 mm.  
FERRULE CLAMP 25.4 mm.

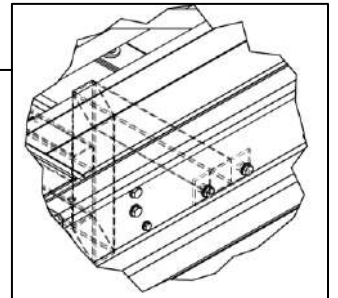


HEX.BOLT M6x1x20L  
SPRING WASHER FOR M6  
WASHER FOR M6  
HEX.NUT M6x1



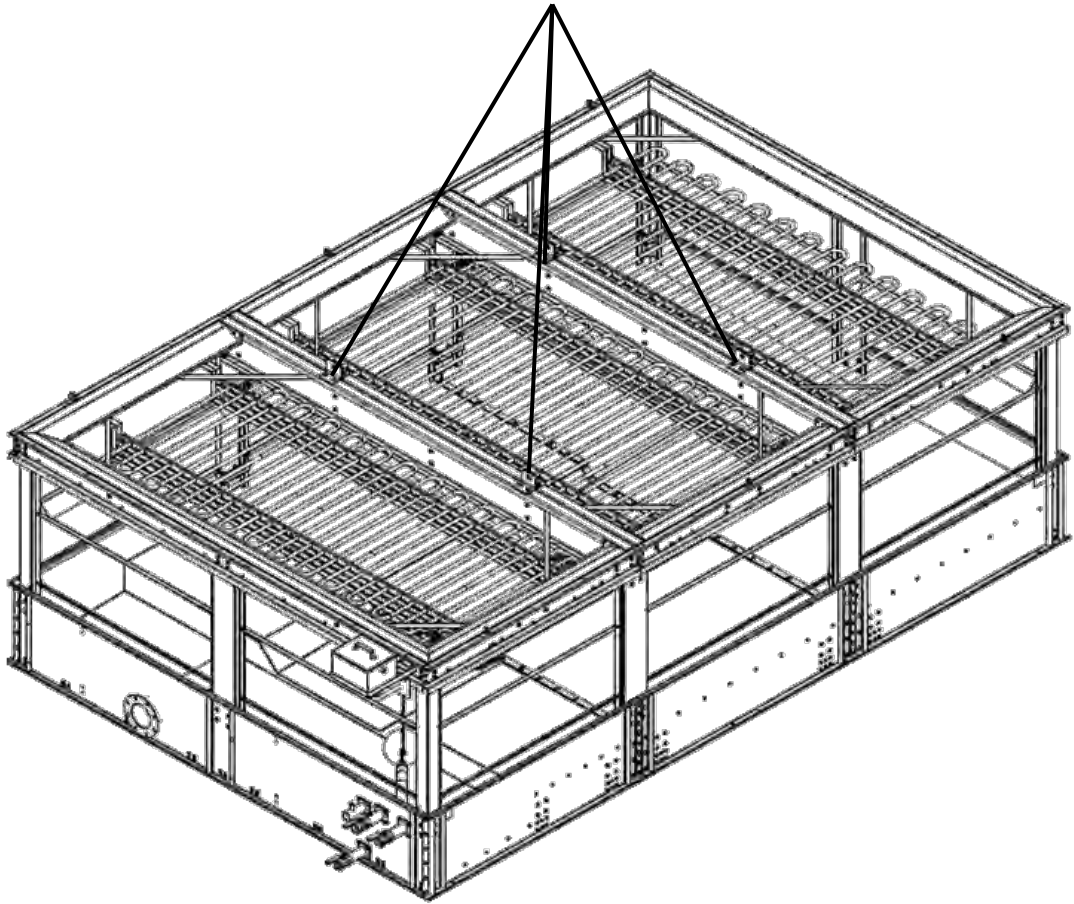
HEX.BOLT M8x1.5x20L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M5x1.5

FERRULE GASKET 25.4 mm.  
FERRULE CLAMP 25.4 mm.

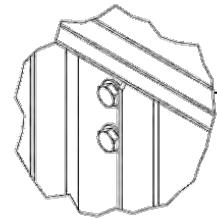
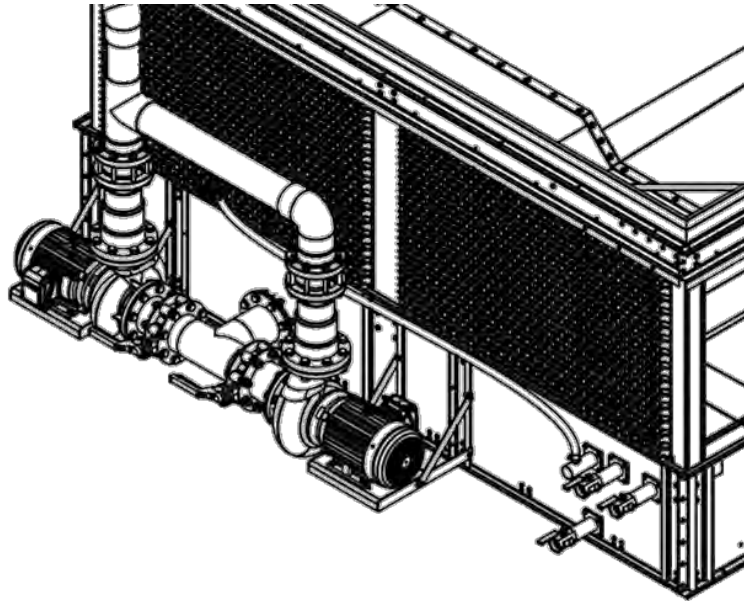


HEX.BOLT M8x1.5x21L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M5x1.5

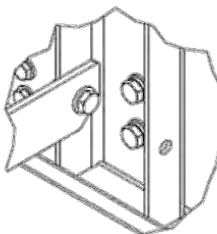
>> Process of BASIN SECTION with Water cooling coil move to position



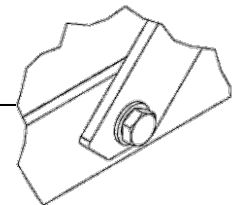
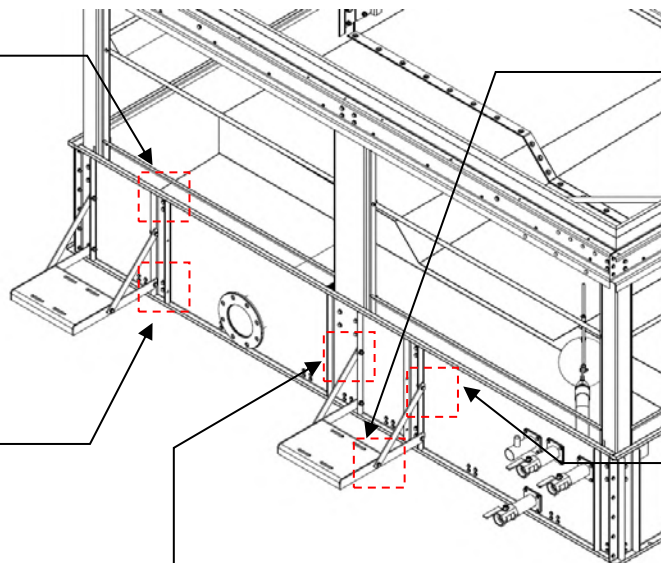
► Step 1: Start Assembly water pump base



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

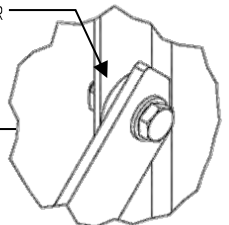


HEX.BOLT M10x1.5x30L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5

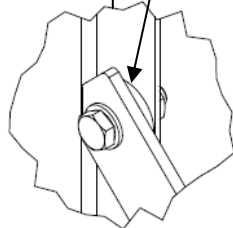


HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5

WASHER



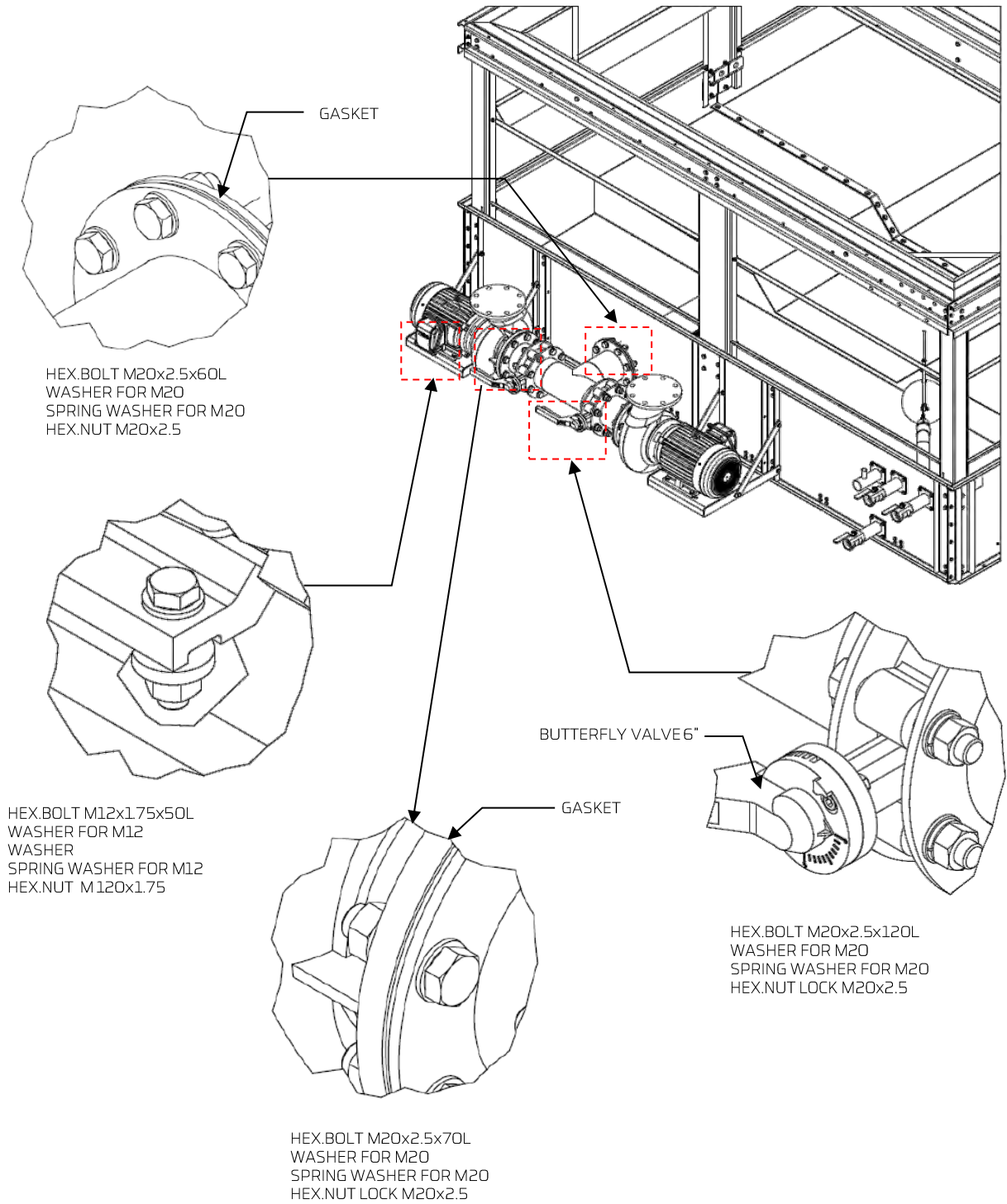
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5



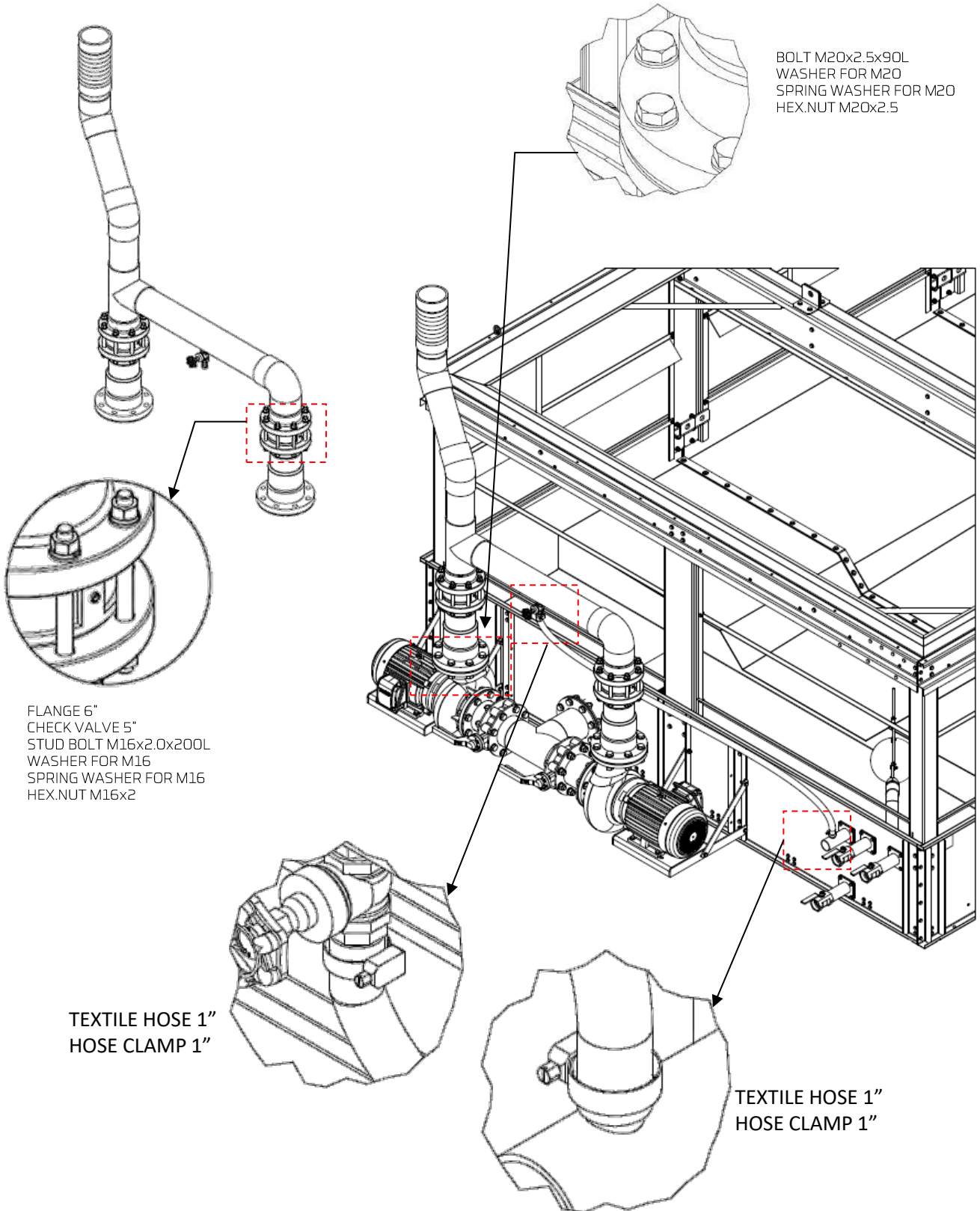
HEX.BOLT M10x1.5x35L  
WASHER FOR M10  
SPRING WASHER FOR M10  
HEX.NUT M10x1.5

WASHER

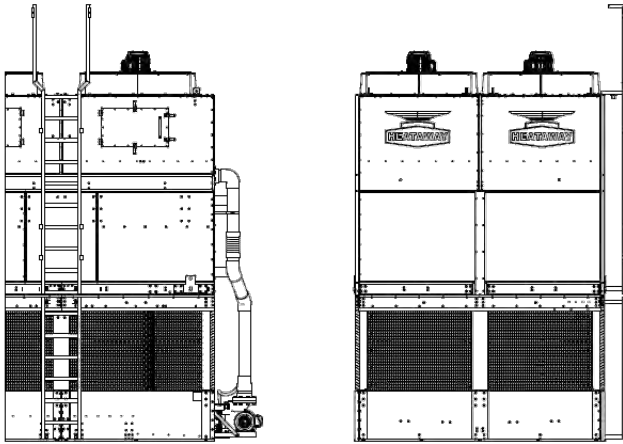
## ► Step 2 : Assembly water pump and Suction Pump pipe



➤ Step 3 : Assembly Lower pump pipe

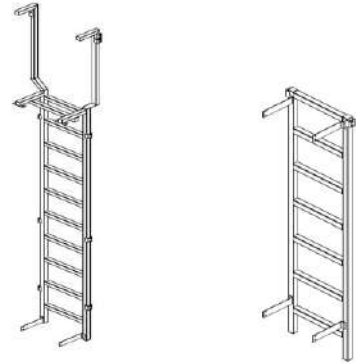






1. Lower Ladder
2. Upper Ladder

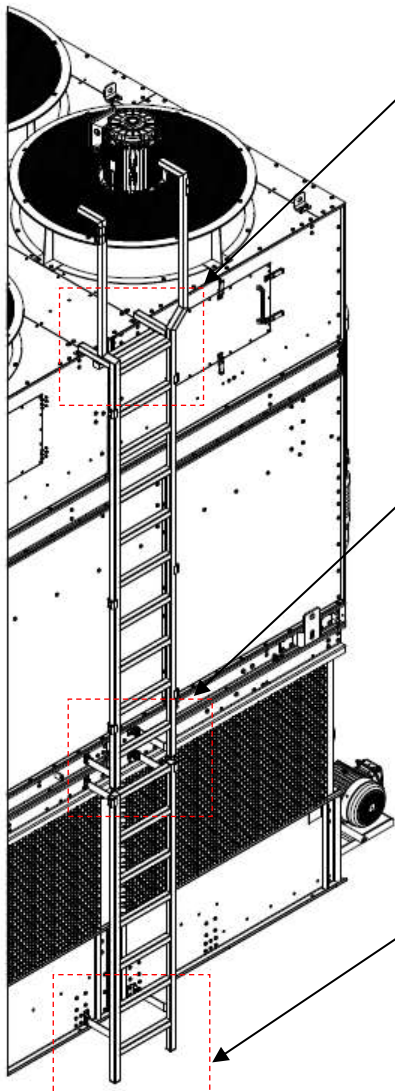
1 Unit  
1 Unit



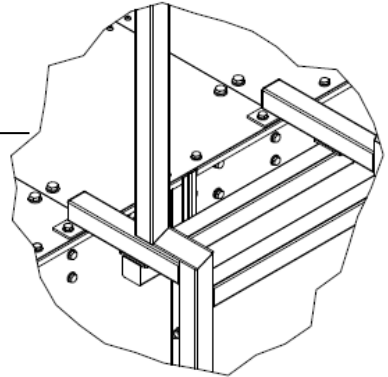
Upper Ladder

Lower Ladder

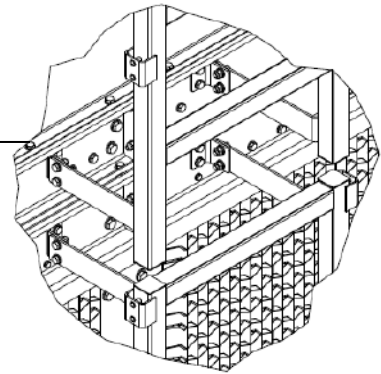
➤ Step 1: Start Assembly from Lower Ladder



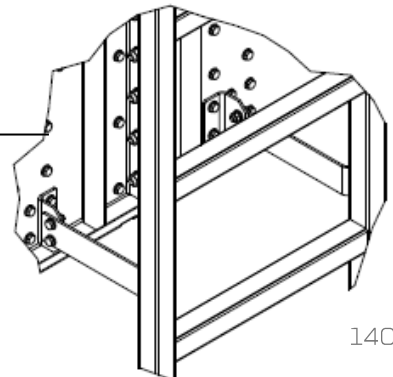
HEX.BOLT M8x1.25x25L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M8x1.25

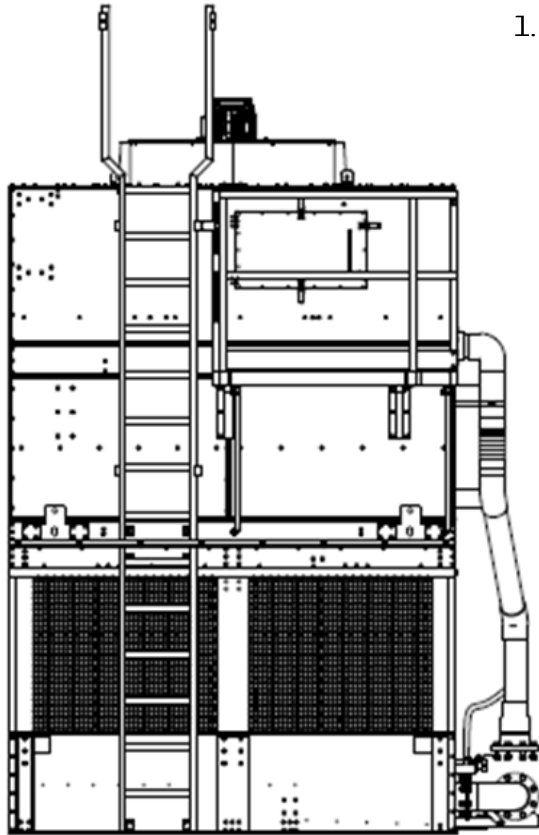


HEX.BOLT M8x1.25x25L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M8x1.25



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

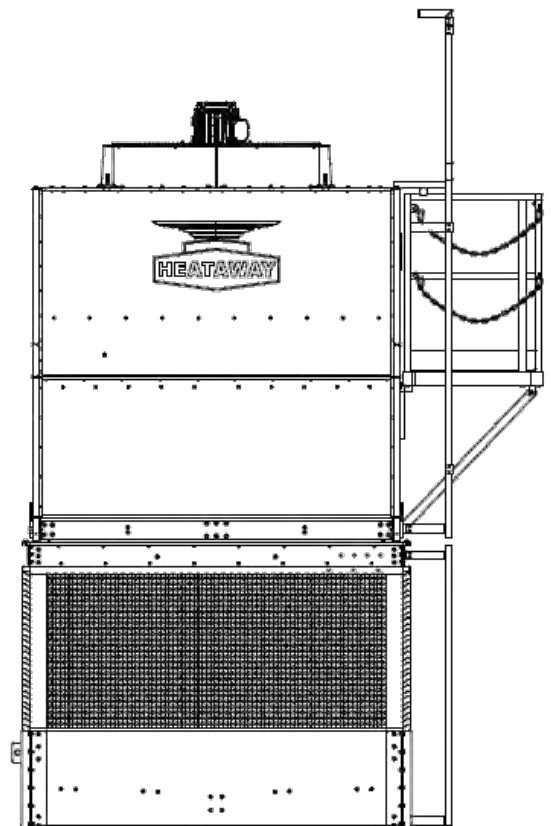
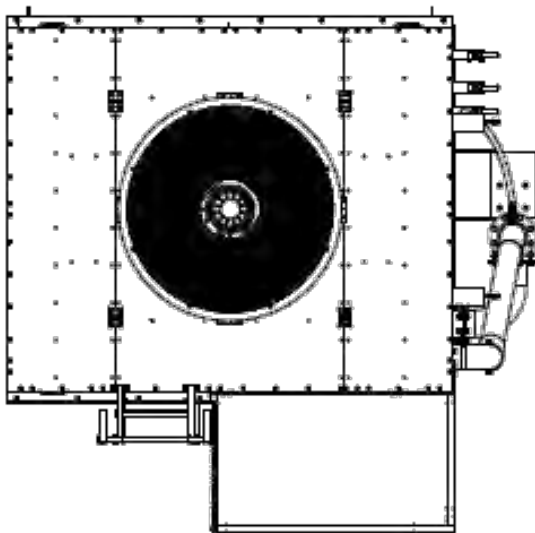
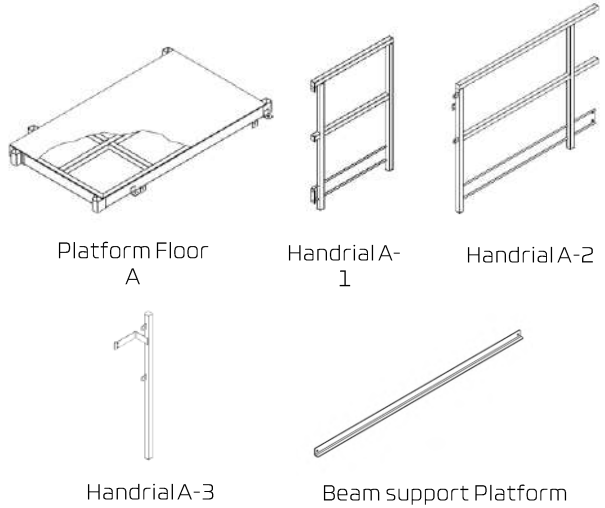




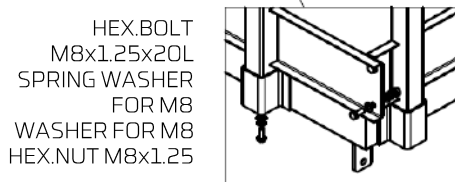
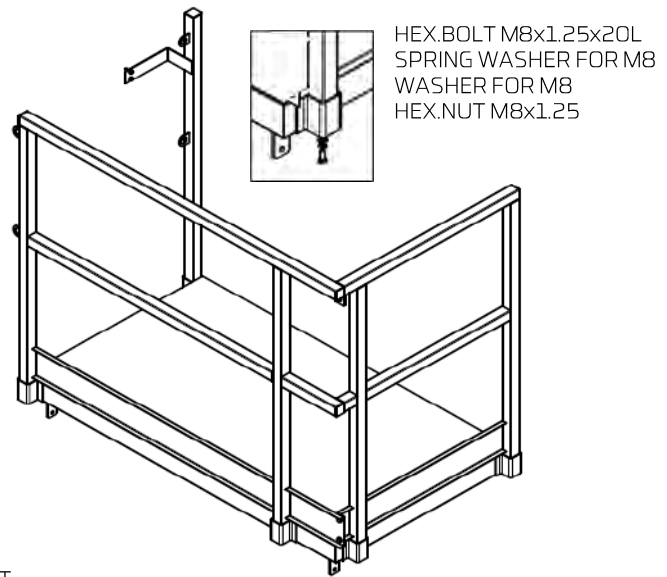
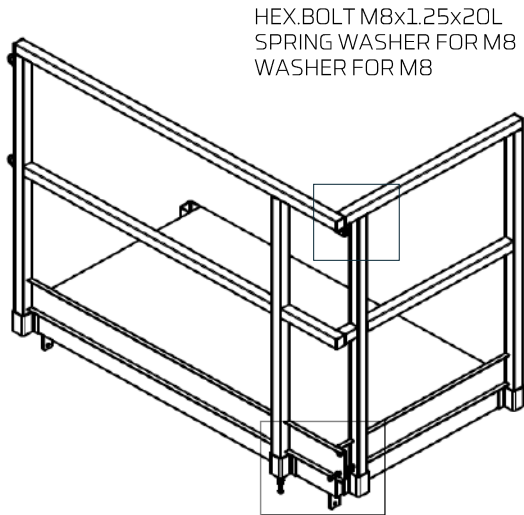
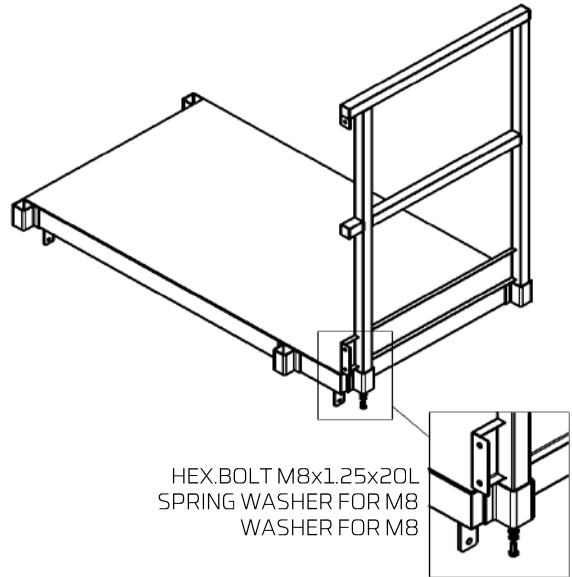
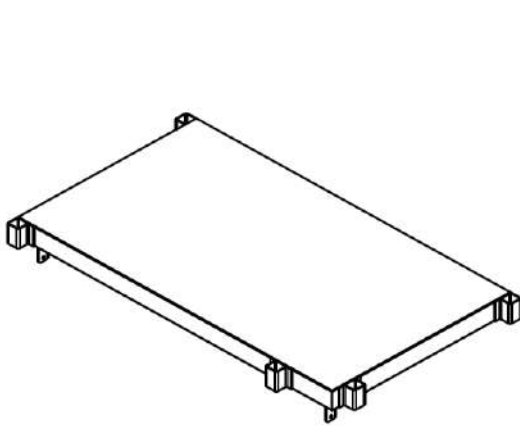
## 1. Platform A

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

1 Set  
1 Unit  
1 Unit  
1 Unit  
1 Unit  
2 Units

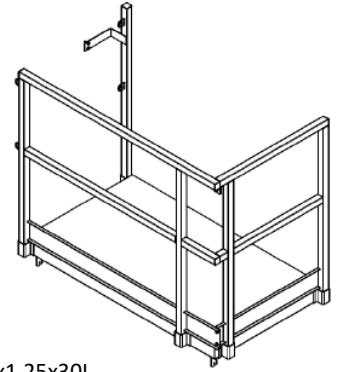
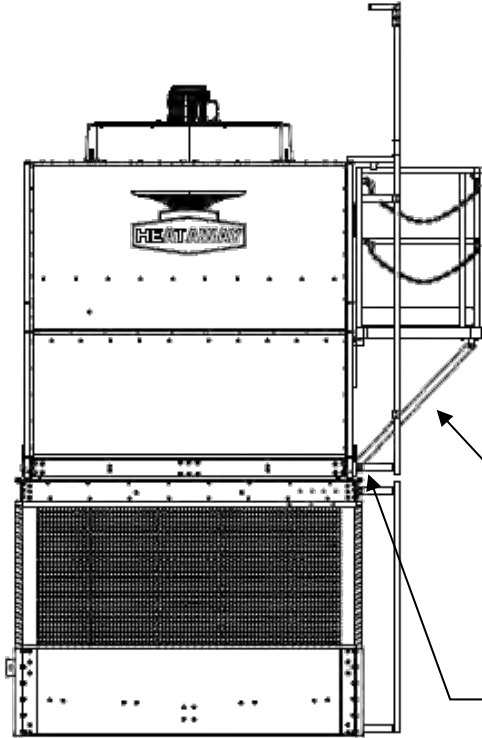


► Step 1: Start Assembly from Platform A



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

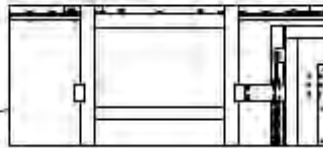
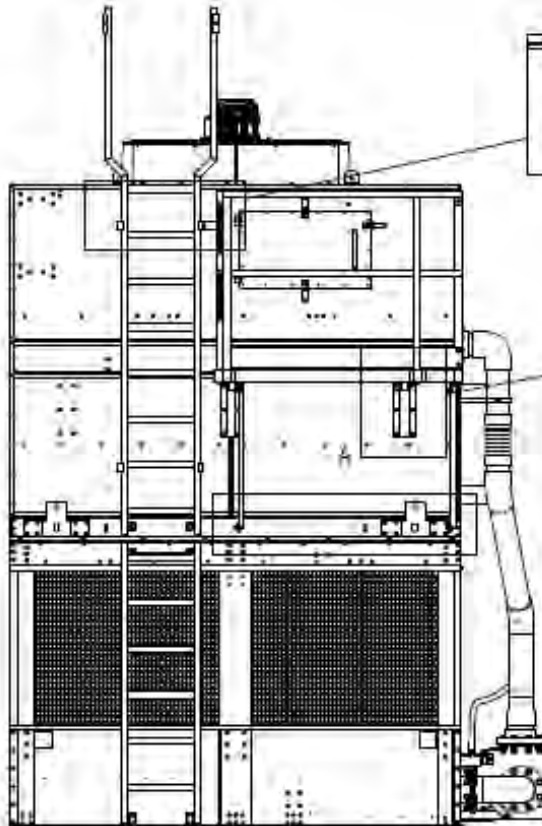
## ► Step 2 : Install Platform A



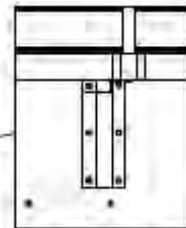
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25

Beam support Platform

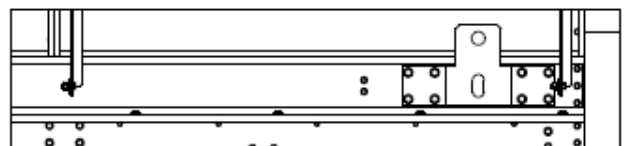
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



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

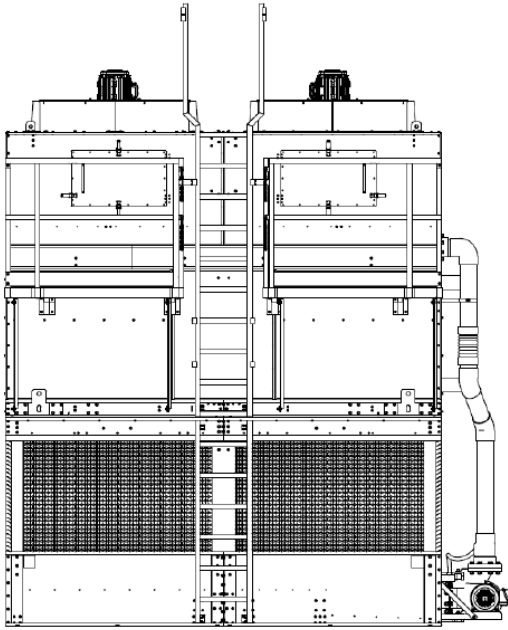


HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



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

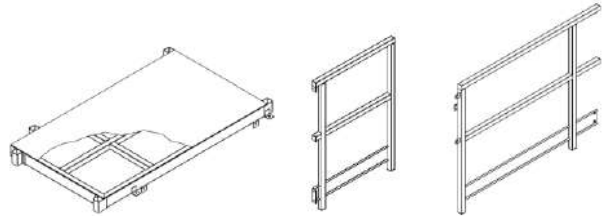
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



## 1. Platform A

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

## 1 Set



Platform Floor A

Handrail A-1

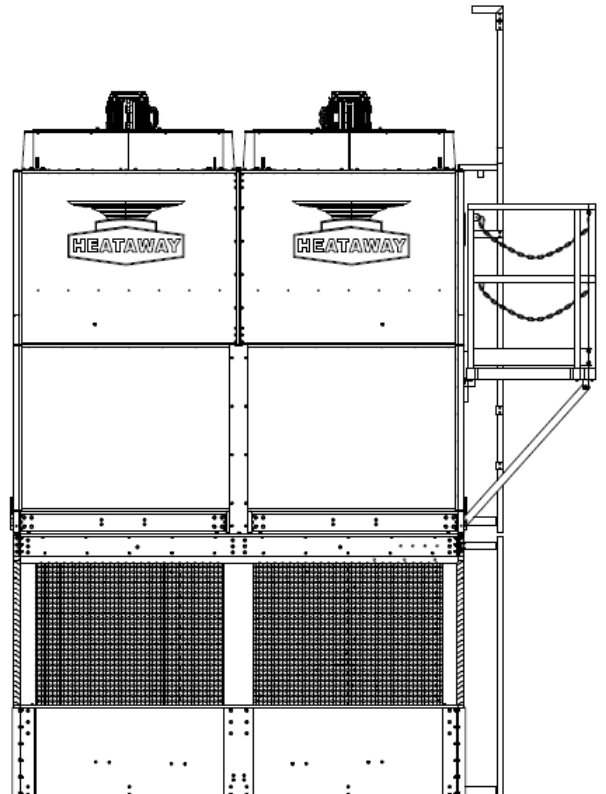
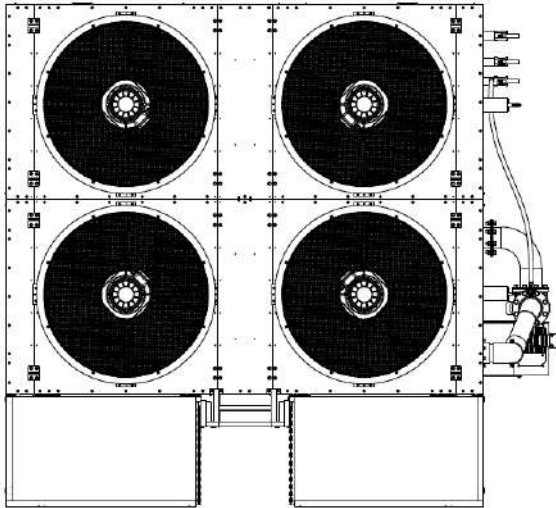
Handrail A-2



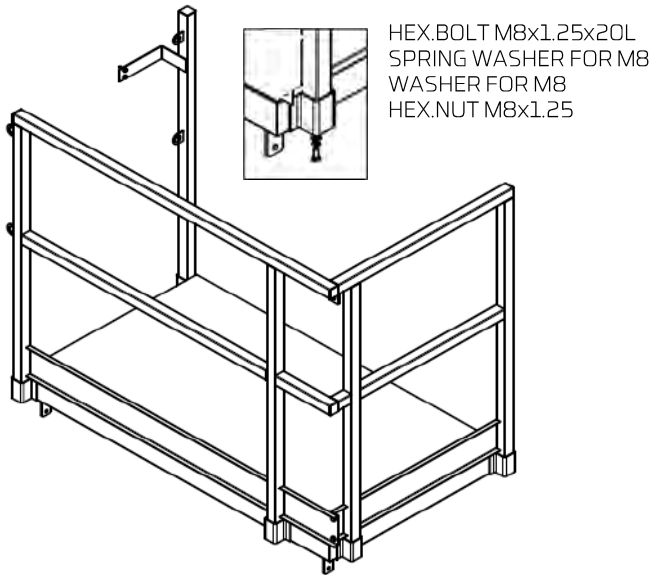
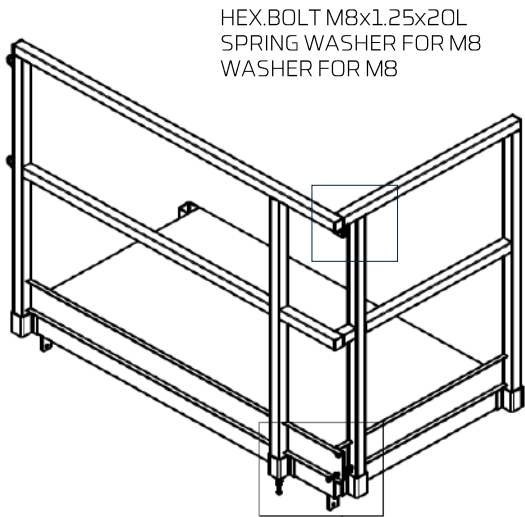
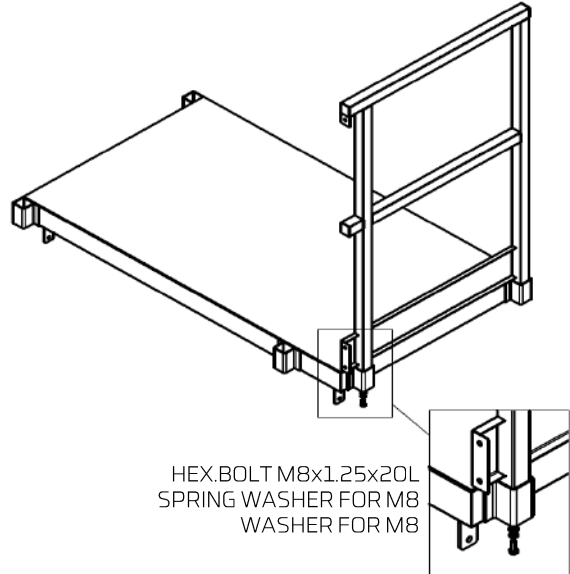
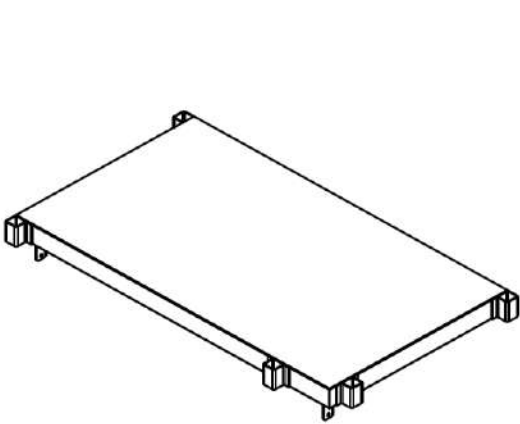
Handrail A-3



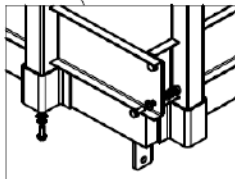
Beam support Platform



➤ Step 1: Start Assembly from Platform A

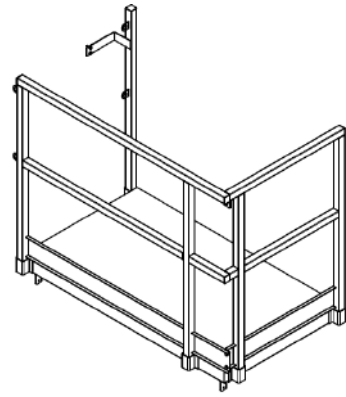
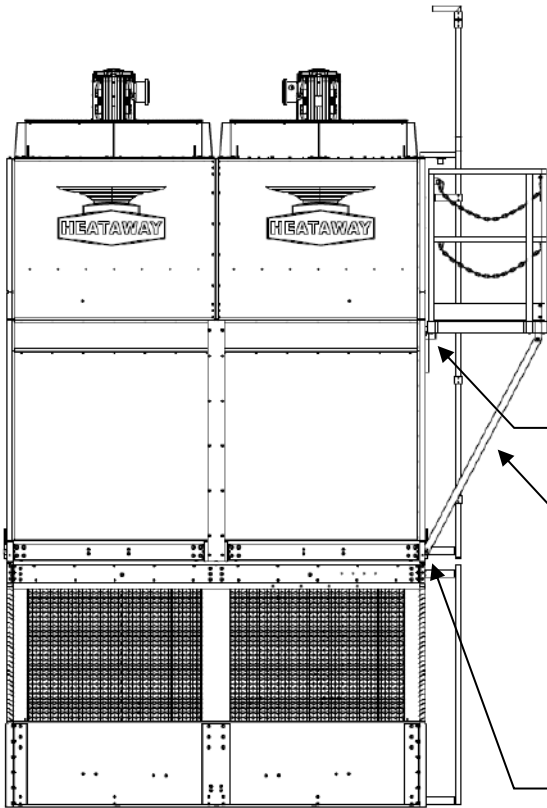


HEX.BOLT M8x1.25x20L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M8x1.25



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

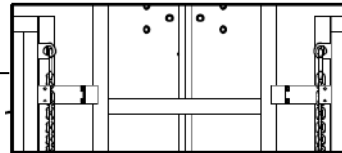
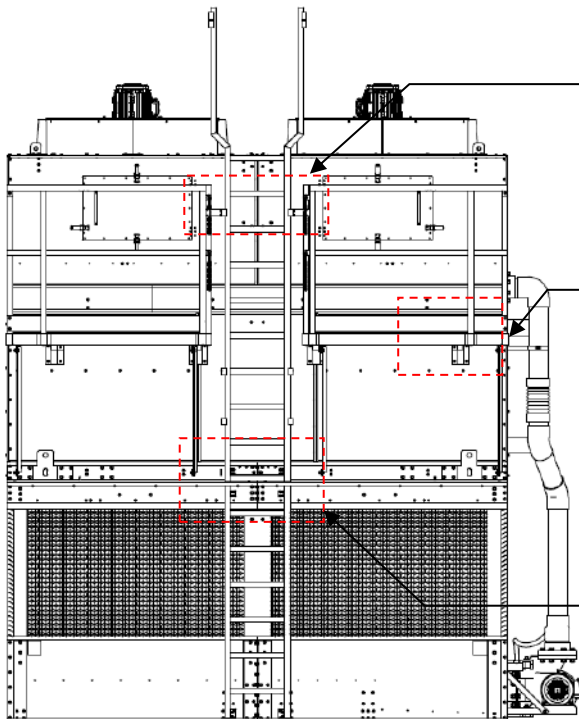
► Step 1: Start Assembly from Platform A



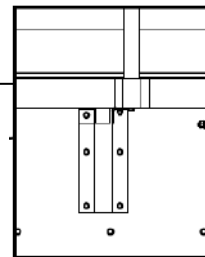
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25

Beam support Platform

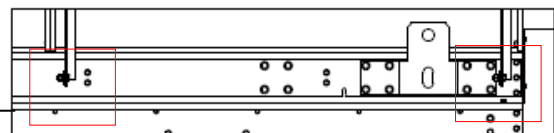
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



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

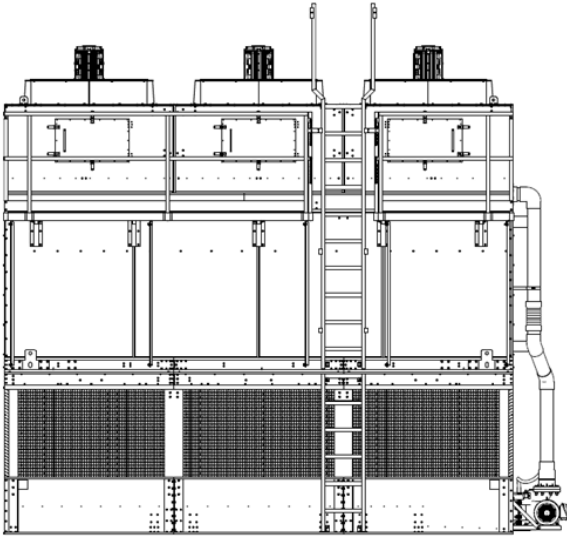


HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



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

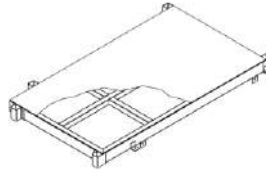
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



## 1. Platform A

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

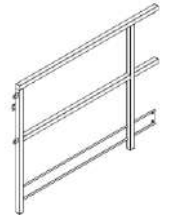
- 1 Set  
1 Unit  
1 Unit  
1 Unit  
2 Units



Platform Floor  
A



Handrail A-  
1



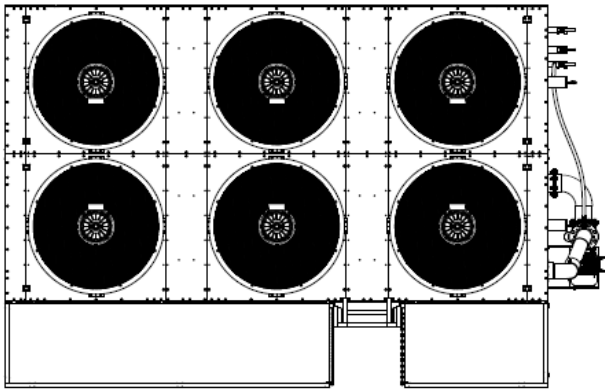
Handrail A-2



Handrail A-3



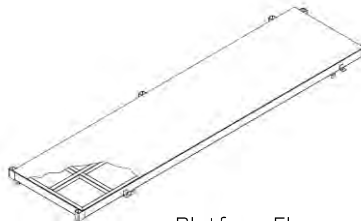
Beam support Platform



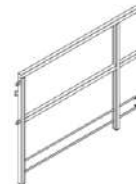
## 2. Platform B

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

- 1 Set  
1 Unit  
1 Unit  
1 Unit  
3 Unit



Platform Floor  
B



Handrail B-  
1



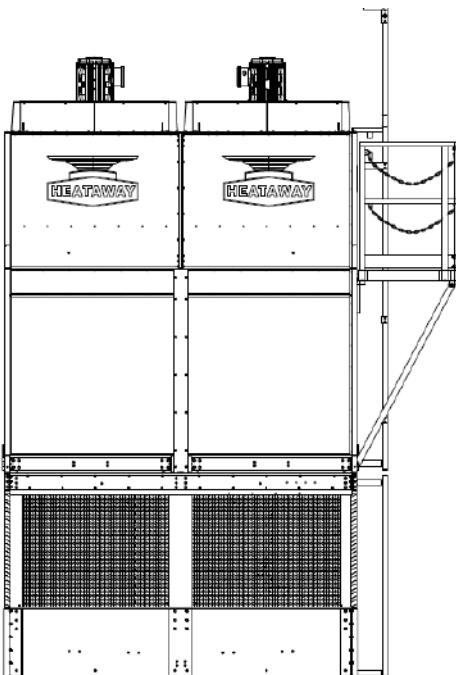
Handrail B-2



Handrail B-3

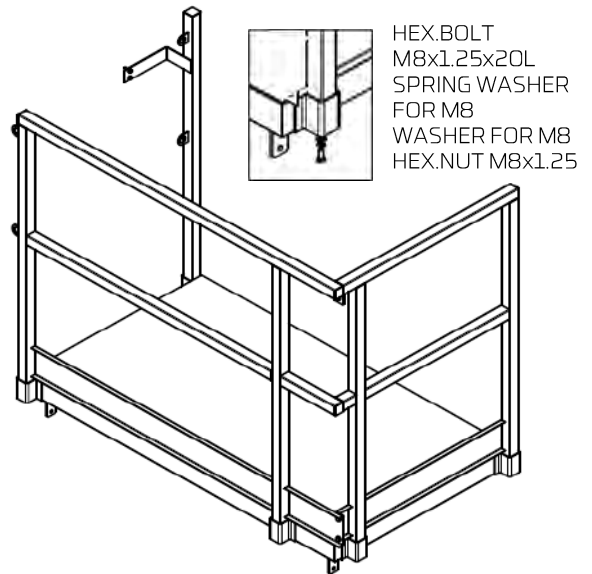
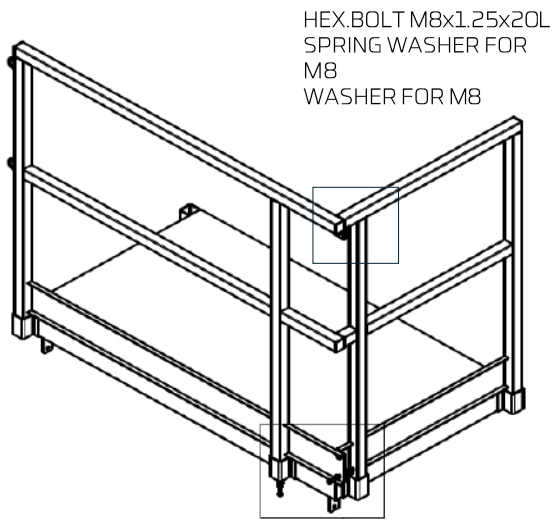
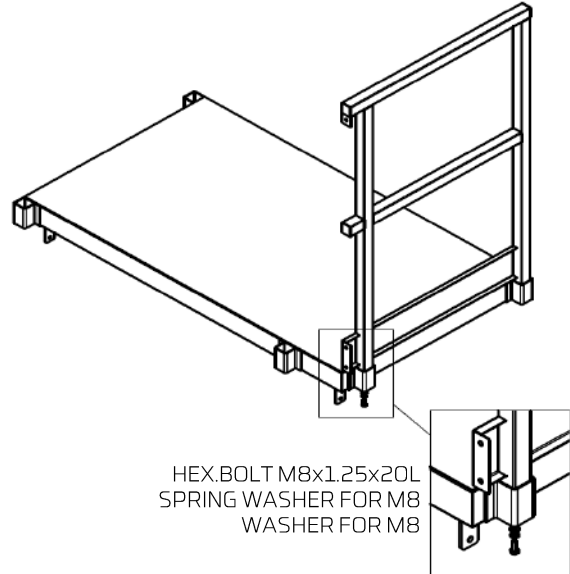
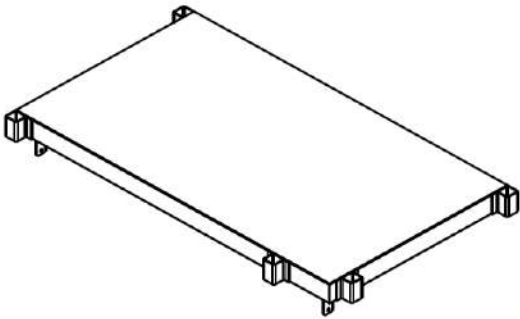


Beam support Platform

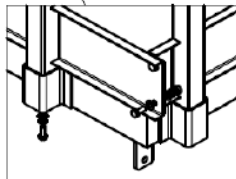




➤ Step 1: Start Assembly from Platform A

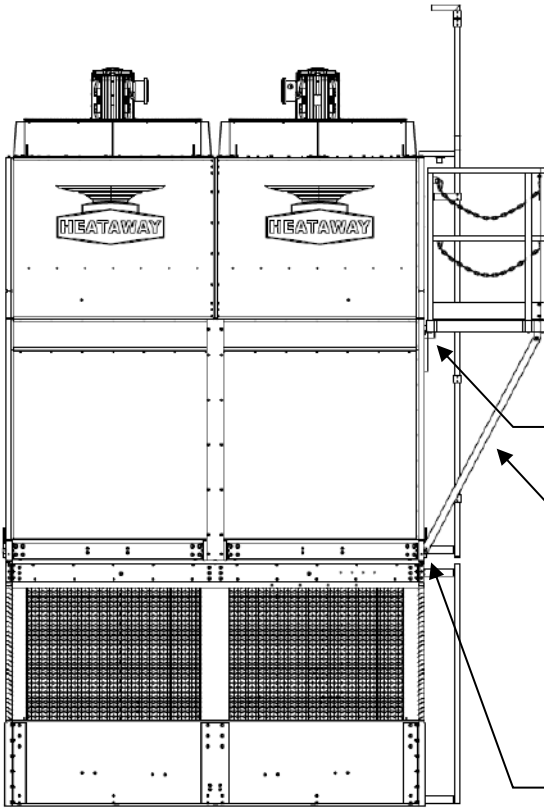
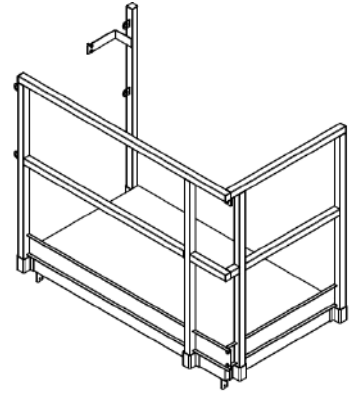


HEX.BOLT M8x1.25x20L  
SPRING WASHER FOR M8  
WASHER FOR M8  
HEX.NUT M8x1.25



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

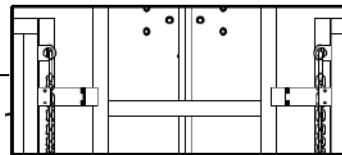
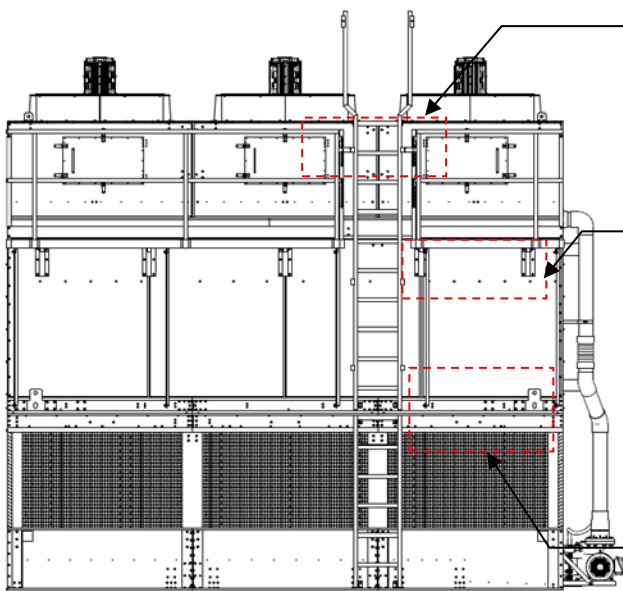
➤ Step 1: Start Assembly from Platform A



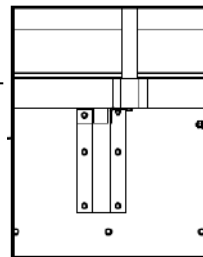
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25

Beam support Platform

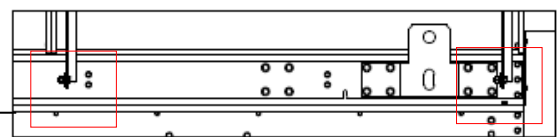
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



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



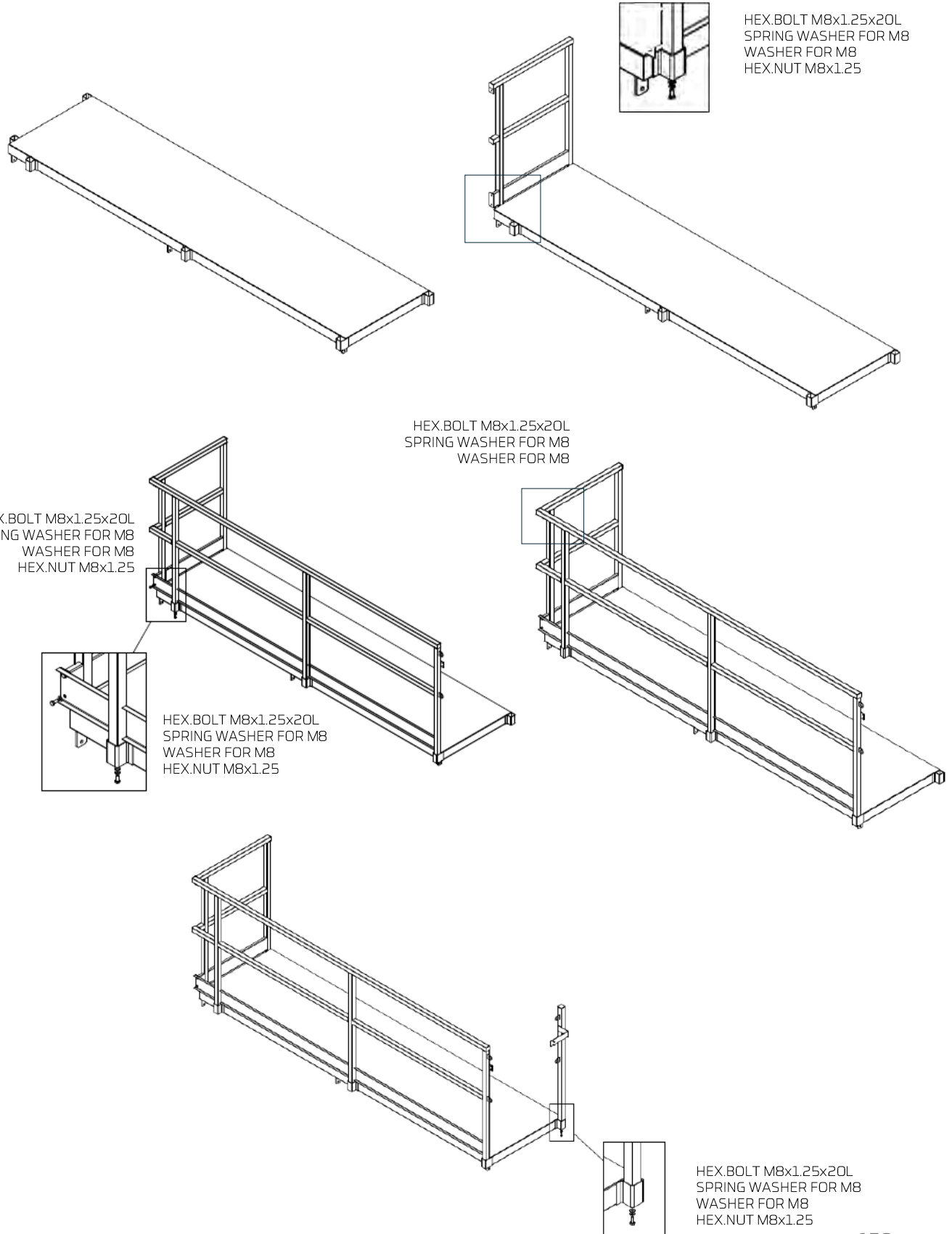
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



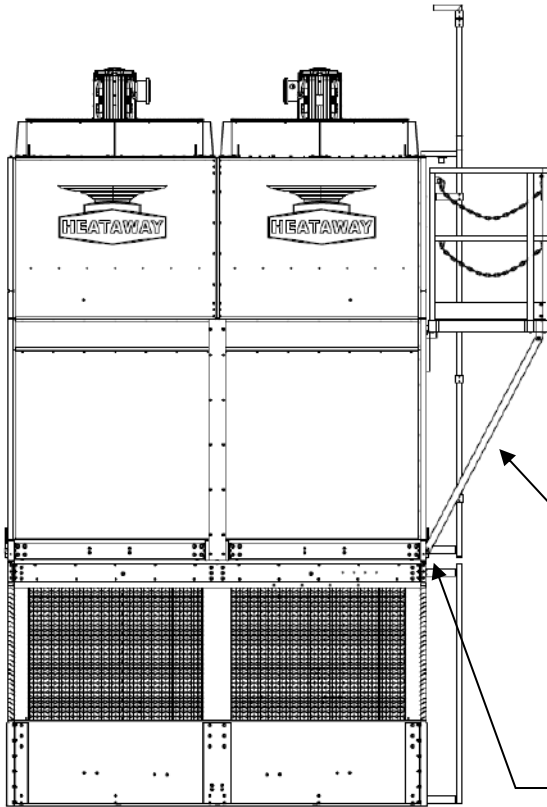
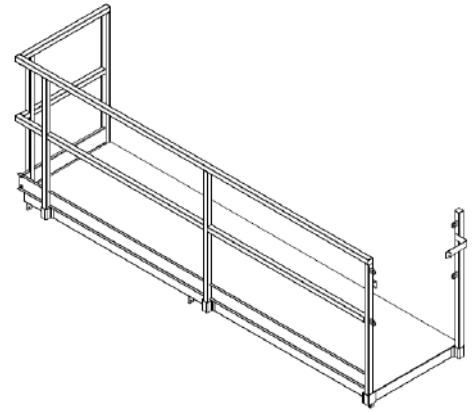
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25

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

► Step 2 : Start Assembly from Platform B



► Step 1: Start Assembly from Platform A

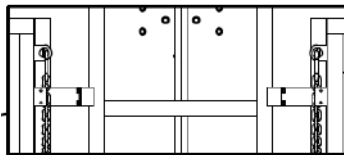


HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25

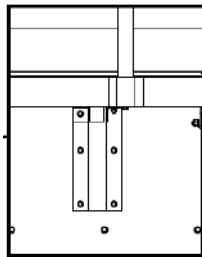
Beam support Platform

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

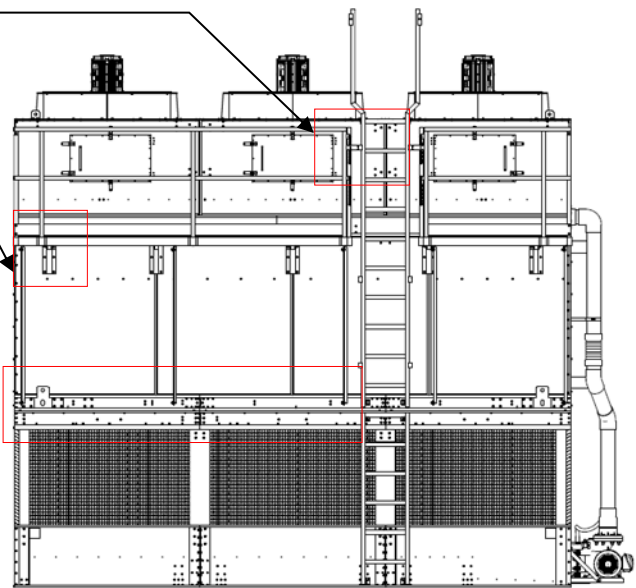
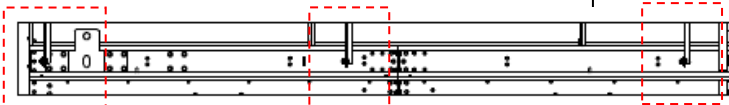
HEX.BOLT  
 M10x1.25x30L  
 SPRING WASHER  
 FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



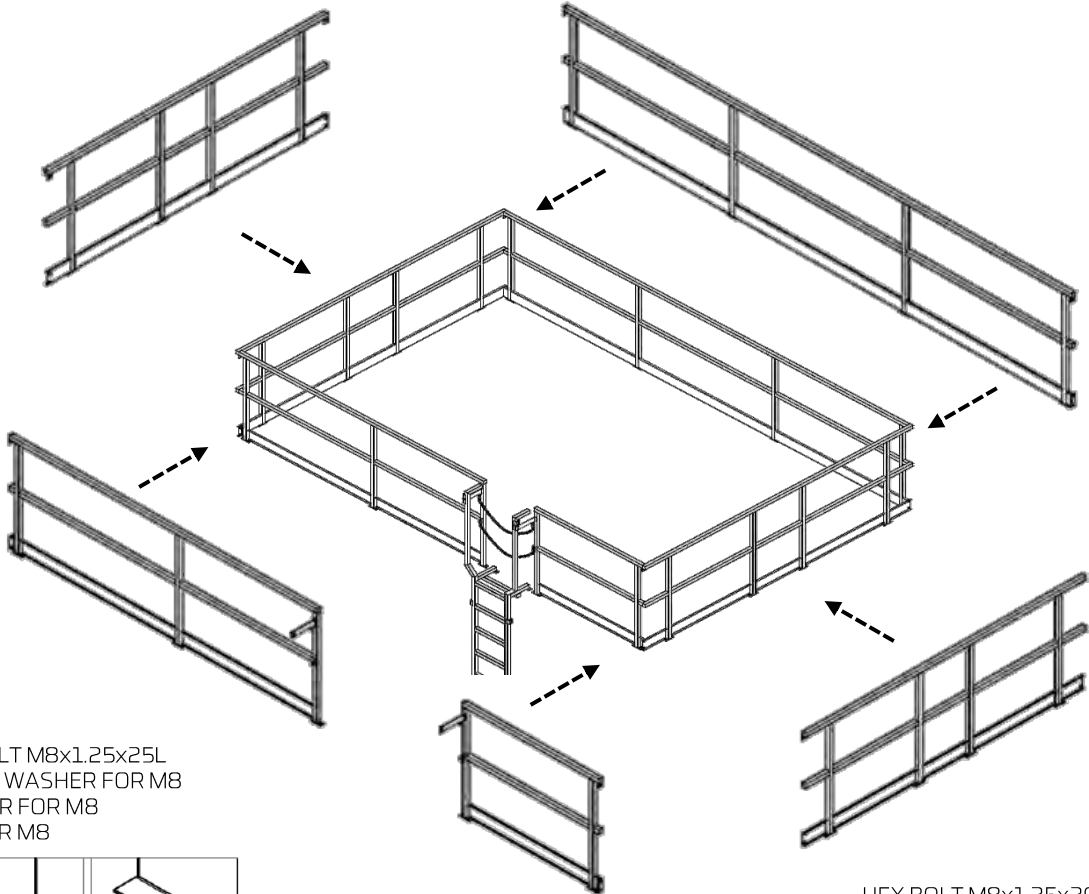
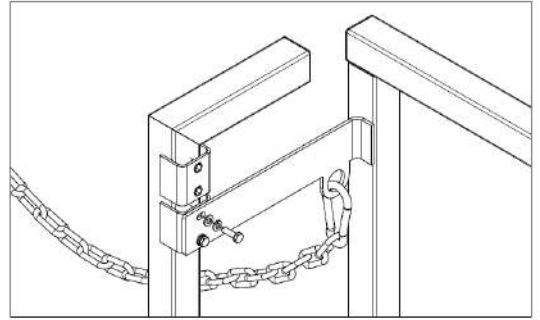
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



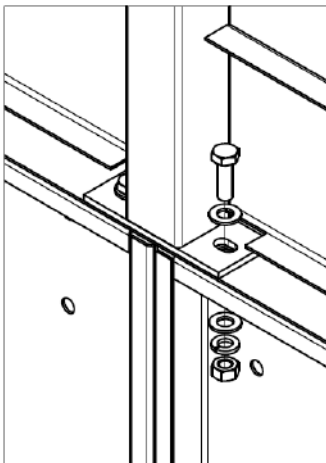
HEX.BOLT M10x1.25x30L  
 SPRING WASHER FOR M10  
 WASHER FOR M10  
 HEX.NUT M10x1.25



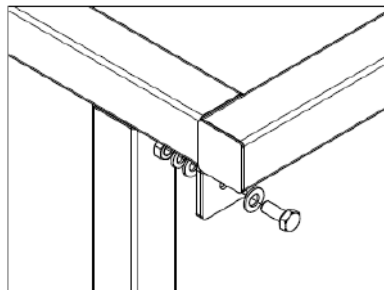
HEX.BOLT M6x1.25x20L  
 SPRING WASHER FOR M6  
 WASHER FOR M6  
 NUT FOR M6



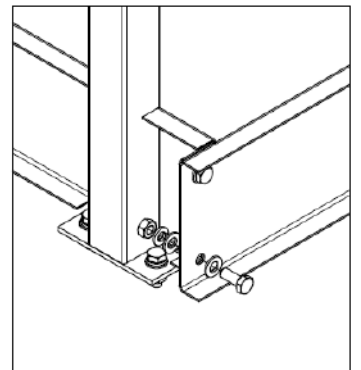
HEX.BOLT M8x1.25x25L  
 SPRING WASHER FOR M8  
 WASHER FOR M8  
 NUT FOR M8



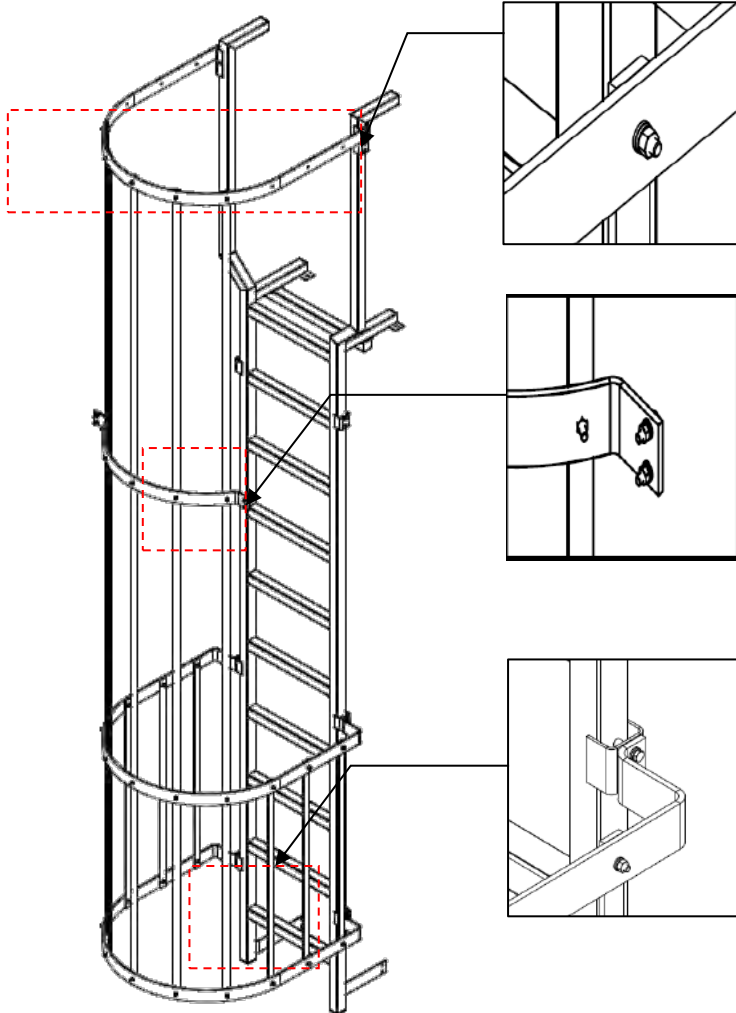
HEX.BOLT M8x1.25x20L  
 SPRING WASHER FOR M8  
 WASHER FOR M8  
 NUT FOR M8



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



## ► Standard Cage

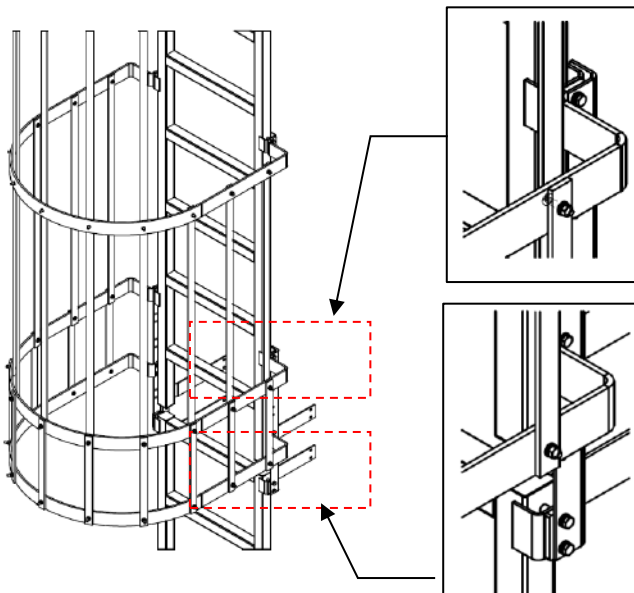


HEX.BOLT M6x1.25x25L (PAN HEAD)  
 SPRING WASHER FOR M6  
 WASHER FOR M6  
 NUT FOR M6

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



# HEATAWAY

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