PRODUCT CATALOG 2025

HDPE FLAP GATE

FGH PRODUCT SERIES

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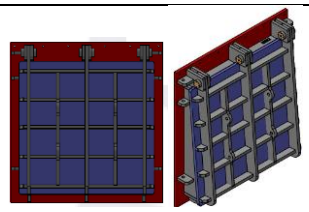
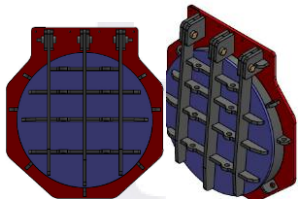
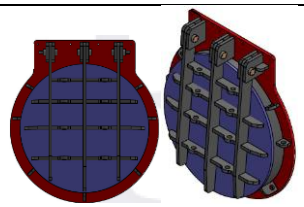
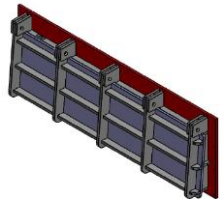
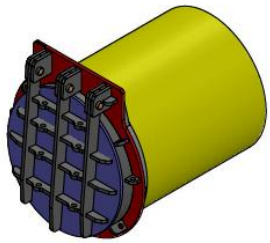
ORDERING INFORMATION

5 nos. (Five) TYPES OF HDPE FLAP GATE AVAILABLE FOR ORDER

Construction Type	Product Identification Code
Square Door with Square shape Frame	Prefix "S" as in S1200WM means Door Size 1200 mm x 1200. Flap gate is wall mounted
Wall Mounted(WM) is flap gate bolted to concrete wall while Pipe Mounted (PM) is mounted to HDPE Spiral pipe by HDPE Jointing.	Suffixes Letter WM= Wall Mounted PM= Pipe Mounted
Rounded Shape Door with Octagonal Shape Frame Wall Mounted Type	With code "ROC" as in example ROC1200WM
Rounded Shape Door with Rounded Shape Frame Wall Mounted type.	With code "R" example: R1200 WM
Customized door and frame	Example of customized such as odd size, concealed door,

REFERENCE DRAWING

Example	Shapes
S1200WM	
ROC1200WM	
R1200WM	
Customized-odd shape & size	
Pipe Mounted Model No: ROC1200 PM	

MATERIAL SPECIFICATION

Back Plate (Frame) & Door & All Reinforcement & Hinge & Gusset	HDPE
Axles for Door Hinges	Stainless steel with HDPE Insert & Cap
Door Seal	EPDM
Gasket for Back Plate (Frame) to Wall	Natural Rubber

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AVAILABLE SIZES

SQUARE DOOR with SQUARE FRAME		ROUND DOOR with ROUND FRAME		ROUND DOOR with OCTAGONAL FRAME	
Product Code	Opening Size	Product Code	Opening Size	Product Code	Opening Size
S300 WM	300mm X 300mm	**R600 WM**	ID 600 mm	**ROC600 WM**	ID 600 mm
S350 WM	350mm X 350mm	**R650 WM**	ID 650 mm	**ROC650 WM**	ID 650 mm
S400 WM	400mm X 400mm	**R700 WM**	ID 700 mm	**ROC700 WM**	ID 700 mm
S450 WM	450mm X 450mm	**R750 WM**	ID 750 mm	**ROC750 WM**	ID 750 mm
S500 WM	500mm X 500mm	**R800 WM**	ID 800 mm	**ROC800 WM**	ID 800 mm
S550 WM	550mm X 550mm	**R850 WM**	ID 850 mm	**ROC850 WM**	ID 850 mm
S600 WM	600mm X 600mm	**R900 WM**	ID 900 mm	**ROC900 WM**	ID 900 mm
S650 WM	650mm X 650mm	**R950 WM**	ID 950 mm	**ROC950 WM**	ID 950 mm
S700 WM	700mm X 700mm	**R1000 WM**	ID 1000 mm	**ROC1000 WM**	ID 1000 mm
S750 WM	750mm X 750mm	**R1100 WM**	ID 1100 mm	**ROC1100 WM**	ID 1100 mm
S800 WM	800mm X 800mm	**R1200 WM**	ID 1200 mm	**ROC1200 WM**	ID 1200 mm
S850 WM	850mm X 850mm	**R1300 WM**	ID 1300 mm	**ROC1300 WM**	ID 1300 mm
S900 WM	900mm X 900mm	**R1400 WM**	ID 1400 mm	**ROC1400 WM**	ID 1400 mm
S950 WM	950mm X 950mm	**R1500 WM**	ID 1500 mm	**ROC1500 WM**	ID 1500 mm
S1000 WM	1000mm X 1000mm	**R1800 WM**	ID 1800 mm		
S1100 WM	1100mm X 1100mm				
S1200 WM	1200mm X 1200mm				
S1300 WM	1300mm X 1300mm				
S1400 WM	1400mm X 1400mm				
S1500 WM	1500mm X 1500mm				
S1600 WM	1600mm X 1600mm				
S1700 WM	1700mm X 1700mm	**Notes:**	**(1) Please contact if your project require other sizes not listed above.**		
S1800 WM	1800mm X 1800mm	**(2) Flap Gate size is dictated by size of culvert opening**			

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SELECTED DIMENSIONS

Product Code	Back Plate/ Frame		Estimated Weight (Kg)	No. of Hinges/Axles	Culvert Opening	
	Height, (mm)	Width (mm)			Width (mm)	Height, (mm)
	A	B			C	D
S400 WM	785	700	**50**	**2**	400	400
S600 WM	985	900	**60**	**2**	600	600
S750 WM	1135	1050	**80**	**2**	750	750
S900 WM	1285	1200	**100**	**2**	900	900
S1000 WM	1385	1300	**115**	**2**	1000	1000
S1200 WM	1585	1500	**155**	**3**	1200	1200
S1500 WM	1885	1800	**200**	**3**	1500	1500
S1800 WM	2185	2100	**270**	**4**	1800	1800
R750 WM	1190	1050	**60**	**2**	750 Diameter	
R900 WM	1340	1200	**80**	**2**	900 Diameter	
R1000 WM	1440	1300	**90**	**3**	1000 Diameter	
R1200 WM	1640	1500	**110**	**3**	1200 Diameter	
R1500 WM	1940	1800	**140**	**3**	1500 Diameter	
ROC750 WM	1190	1060	**60**	**2**	750 Diameter	
ROC900 WM	1340	1202	**80**	**2**	900 Diameter	
ROC1000 WM	1440	1303	**90**	**3**	1000 Diameter	
ROC1200 WM	1640	1503	**110**	**3**	1200 Diameter	
ROC1500 WM	1940	1803	**150**	**3**	1500 Diameter	

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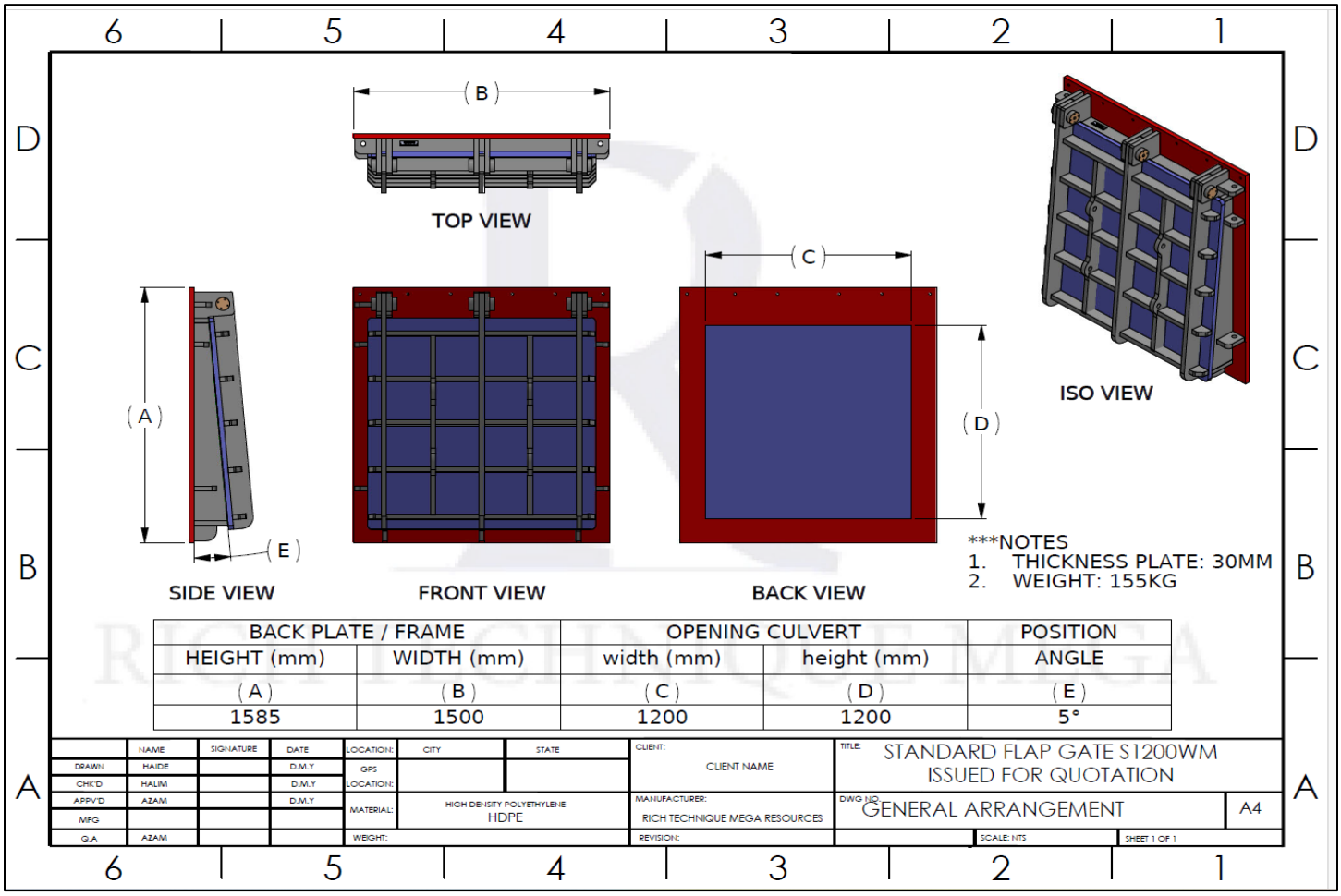
SAMPLE DRAWING SQUARE DOOR WITH SQUARE FRAME



BACK PLATE / FRAME		OPENING CULVERT		POSITION
HEIGHT (mm)	WIDTH (mm)	width (mm)	height (mm)	ANGLE
(A)	(B)	(C)	(D)	(E)
1585	1500	1200	1200	5°

	NAME	SIGNATURE	DATE					
DRAWN	HAIDE		D.M.Y	LOCATION:	CITY	STATE	CLIENT: CLIENT NAME	TITLE: STANDARD FLAP GATE S1200WM ISSUED FOR QUOTATION
CHK'D	HALIM		D.M.Y	GPS LOCATION:				
APPV'D	AZAM		D.M.Y	MATERIAL:	HIGH DENSITY POLYETHYLENE HDPE		MANUFACTURER: RICH TECHNIQUE MEGA RESOURCES	DWG NO. GENERAL ARRANGEMENT — A4
MFG								
Q.A	AZAM			WEIGHT:			REVISION:	SCALE: NTS — SHEET 1 OF 1

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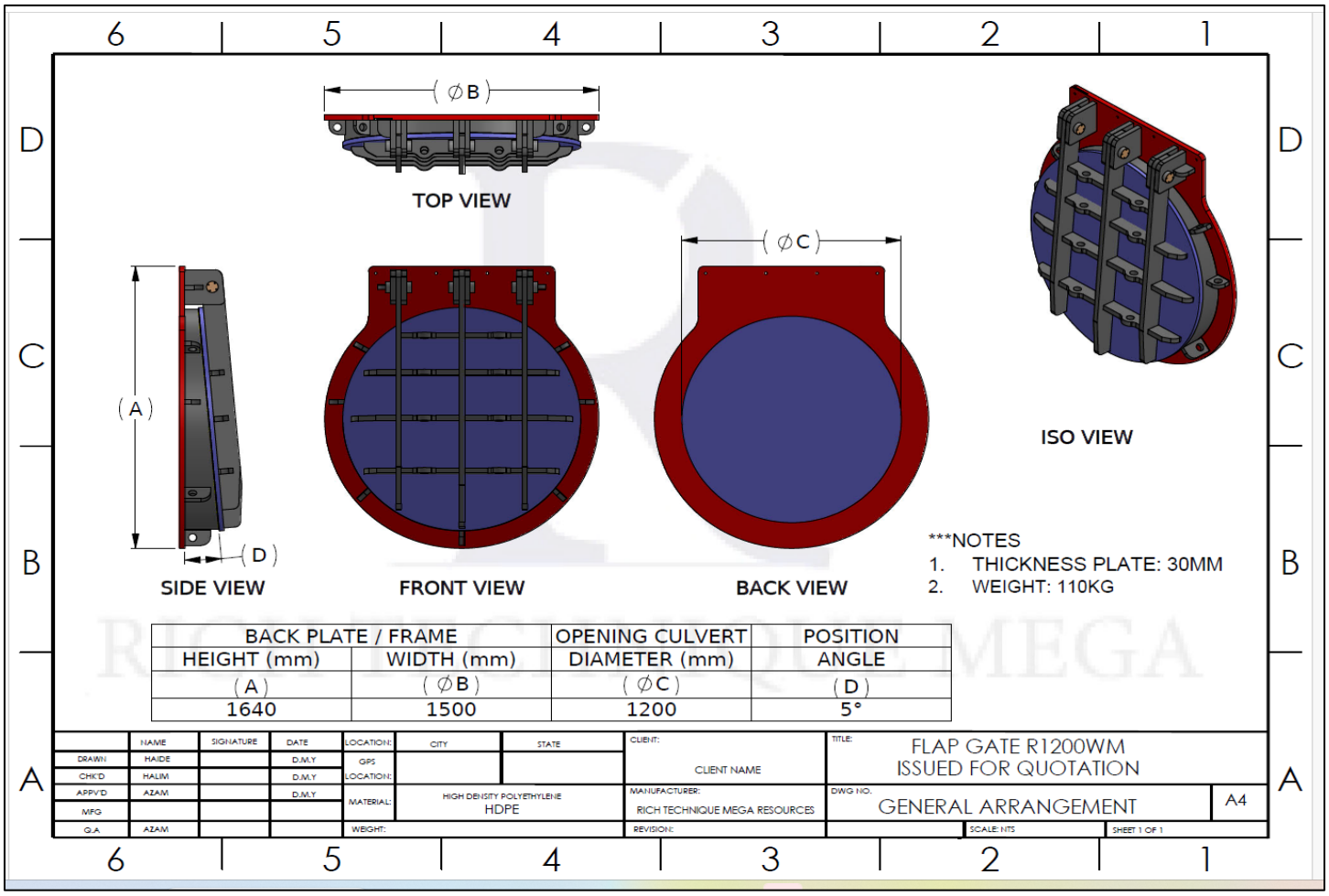
SAMPLE DRAWING ROUND DOOR WITH ROUND FRAME



BACK PLATE / FRAME		OPENING CULVERT	POSITION
HEIGHT (mm)	WIDTH (mm)	DIAMETER (mm)	ANGLE
(A)	(ØB)	(ØC)	(D)
1640	1500	1200	5°

	NAME	SIGNATURE	DATE	LOCATION:	CITY	STATE	CLIENT:	TITLE:
DRAWN	HAIDE		D.M.Y	GPS LOCATION:			CLIENT NAME	FLAP GATE R1200WM ISSUED FOR QUOTATION
CHK'D	HALIM		D.M.Y					
APPV'D	AZAM		D.M.Y	MATERIAL:	HIGH DENSITY POLYETHYLENE HDPE		MANUFACTURER: RICH TECHNIQUE MEGA RESOURCES	DWG NO. GENERAL ARRANGEMENT — A4
MFG								
Q.A	AZAM			WEIGHT:			REVISION:	SCALE: NTS — SHEET 1 OF 1

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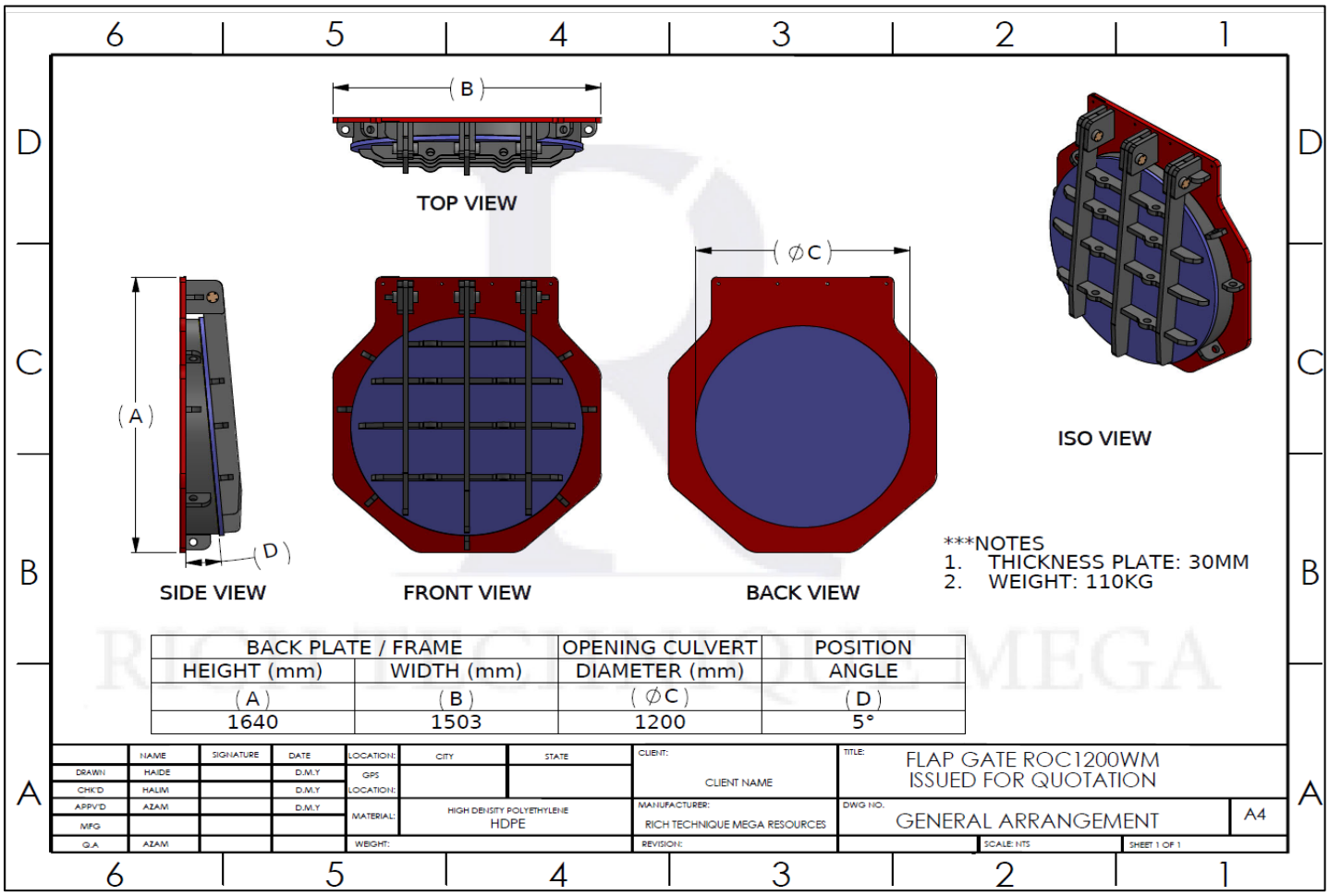
SAMPLE DRAWING ROUND DOOR WITH OCTAGONAL FRAME



BACK PLATE / FRAME		OPENING CULVERT	POSITION
HEIGHT (mm)	WIDTH (mm)	DIAMETER (mm)	ANGLE
(A)	(B)	(ØC)	(D)
1640	1503	1200	5°

	NAME	SIGNATURE	DATE	LOCATION:	CITY	STATE	CLIENT:	TITLE:
DRAWN	HAIDE		D.M.Y	GPS LOCATION:			CLIENT NAME	FLAP GATE ROC1200WM ISSUED FOR QUOTATION
CHK'D	HALIM		D.M.Y					
APPV'D	AZAM		D.M.Y	MATERIAL:	HIGH DENSITY POLYETHYLENE HDPE		MANUFACTURER: RICH TECHNIQUE MEGA RESOURCES	DWG NO.: GENERAL ARRANGEMENT — A4
MFG								
Q.A	AZAM			WEIGHT:			REVISION:	SCALE: NTS — SHEET 1 OF 1

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INSTALLATION GUIDELINE

1. Place the supplied paper template on the intended concrete wall to mark the location of installation bolts. This template is an actual footprint of the flap gate.
2. Drill the holes for installation/stud bolts.
3. Place the installation bolts/studs and insert the rubber gasket supplied to the concrete wall.
4. Lift and place the Flap Gate according to bolts/studs.
5. Tighten the nuts evenly and preferable in criss-cross pattern.
6. Clean the flap gate to ensure no concrete or mortar left on the surface especially seating surface between flap door and frame.
7. Flap gate shall be installed as a complete unit. Please refrain from dismantling the flap door from the frame during installation to avoid problem during reinstallation of door.
8. Great care has been taken during manufacturing to ensure the frame is flat, however if there are small localized high and lows area in concrete wall, the rubber gasket provided should help to improve flatness. In most cases, the following combined actions is considered helpful in managing uneven flatness issue with concrete wall.
    a. Suitable grouting sealing to seal gap.
    b. Intentionally uneven nuts tightness aided with HDPE shim plate.
    c. Use of rubber gasket provided.

OPERATION & MAINTENANCE

1. The HDPE flap gate has automatic operation (due to water level) and maintenance free during operation with the exception of cleaning of debris that may get trapped in between frame and flap door.
2. Seal material between frame and door is suitable for water services and UV exposure and should provide years of reliability. In any case, this gasket is replaceable.

Metallic parts i.e anchor bolts & hinges bolts are all stainless-steel resistant to corrosion and provides years of trouble-free operation

For inquiry please contact

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