

# Multiple Frames

## Horizontal Multiple Frames

Horizontal multiple frames are described by listing the frame type and size x the desired number of horizontal openings.



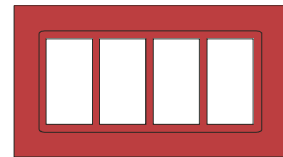
## Vertical Multiple Frames

Vertical multiple frames are described by listing the frame type and bottom size + the next frame size.

## Vertical And Horizontal Multiple Frames

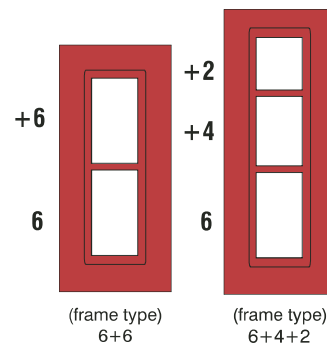
Vertical & horizontal multiple frames are described by listing the frame type and bottom size + next sizes x the desired number of openings.

**NOTE: All multiple frame designations must be preceded by the frame type.**



**x 1 x 2 x 3 x 4**

Designation (frame type) x4



+6

6

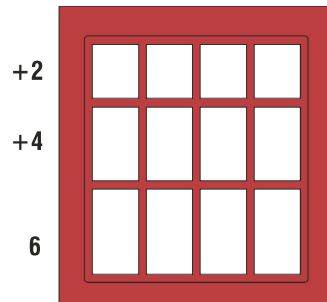
(frame type)  
6+6

+2

+4

6

(frame type)  
6+4+2



+2

+4

6

**x 1 x 2 x 3 x 4**

(frame type)  
6+4+2x4

## Horizontal Multiple Frames

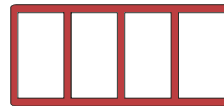
Horizontal multiple frames are described by listing the frame type and size x the desired number of horizontal openings.

## Vertical Multiple Frames

Vertical multiple frames are described by listing the frame type and bottom size + the next frame size.

## Vertical And Horizontal Multiple Frames

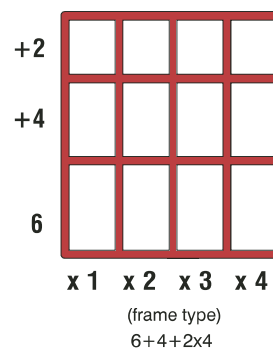
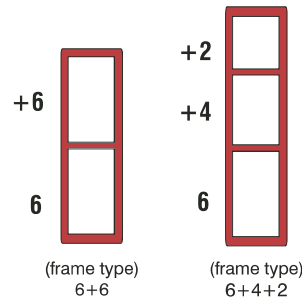
Vertical & horizontal multiple frames are described by listing the frame type and bottom size + next sizes x the desired number of openings.



**x 1 x 2 x 3 x 4**

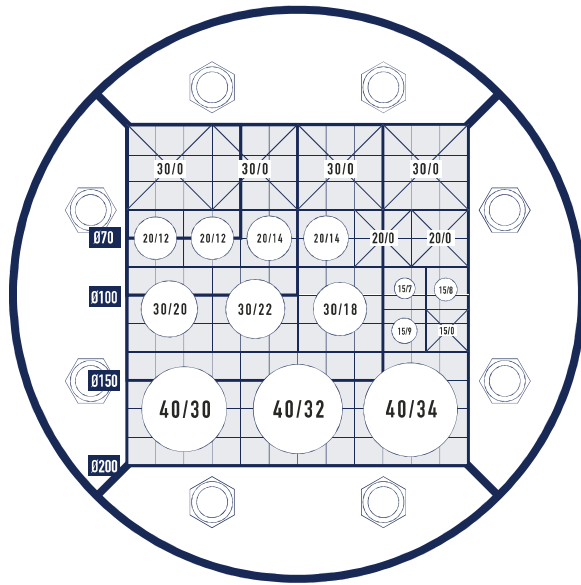
Designation (frame type) x4

**NOTE: All multiple frame designations must be preceded by the frame type.**



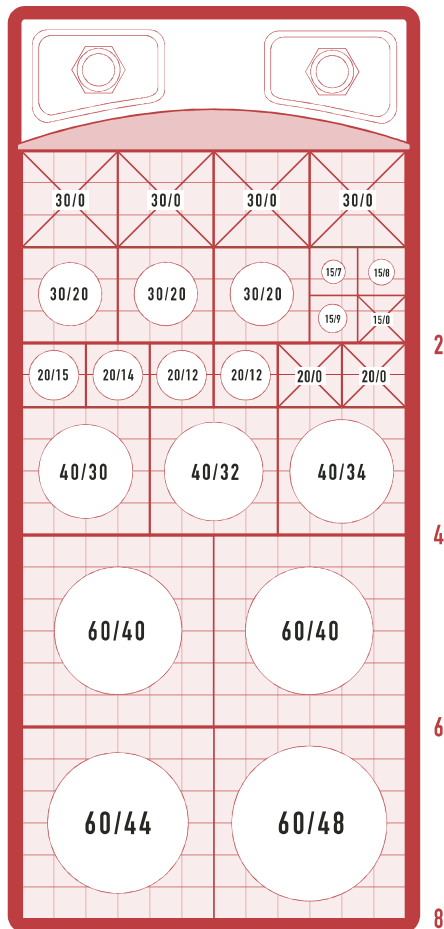
## Planning The Packaging Space

Whenever possible MCT Brattberg recommend the largest cables/pipes are fitted in the bottom of the frame.



Insert Block Range		
Module size	Available hole diameters	mm Steps
15 x 15mm	4-9mm	1mm
20 x 20	4-16	1mm
30 x 30	12-24	1mm
40 x 40	22-34	2mm
60 x 60	32-54	2mm
90 x 90	50-70	2mm
120 x 120	72-100	2mm

Combination Width vs Cable Tray Width					
Frame Size	Cable tray's width in mm				
	150	200	300	400	600
2	2x1	2x2	2x3	2x4	2x5
4	4x1	4x2	4x3	4x4	4x5
6	6x1	6x2	6x3	6x4	6x5
8	8x1	8x2	8x3	8x4	8x5



Frame Size	Maximum Number Of Cables And Pipes						
	Block Sizes						
	15	20	30	40	60	90	120
<b>RGP 50/L30</b>	4	1	1	-	-	-	-
<b>RGP 50/L60</b>	1	1	-	-	-	-	-
<b>RGP 70</b>	4	4	1	1	-	-	-
<b>RGP 100</b>	16	9	4	1	1	-	-
<b>RGP 125</b>	25	16	4	4	1	-	-
<b>RGP 150</b>	36	16	9	4	1	1	-
<b>RGP 200</b>	64	36	16	9	4	1	1

Frame Size	Maximum Number Of Cables And Pipes						
	Block Sizes						
	15	20	30	40	60	90	120
<b>2</b>	32	18	8	3	2	-	-
<b>4</b>	64	36	16	9	4	1	1
<b>6</b>	96	54	24	12	6	2	1
<b>8</b>	128	72	32	18	8	2	2

## RG-PLAN

The correct frame size can be determined by using this plan. The numbers **2, 4, 6** and **8** in the margin represent the packing space available in frame sizes 2, 4, 6 and 8 respectively.

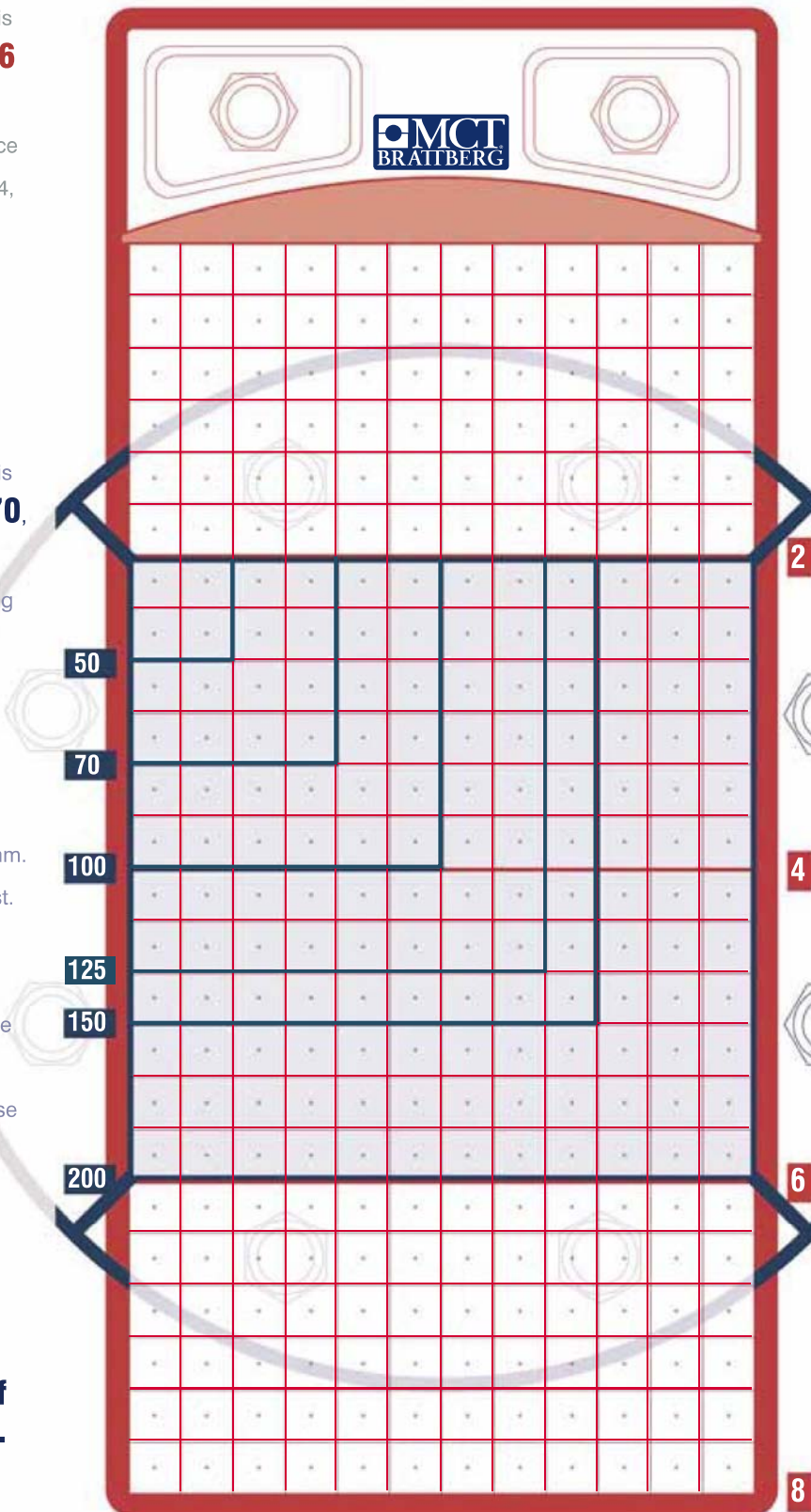
## RGP-PLAN

The correct frame size can be determined by using this plan. The numbers **50, 70, 100, 125, 150** and **200** represent the packing space available in frames RGP-50, 70, 100, 125, 150 and 200 respectively.

RGP 300 (not shown)  
Packing space 180 x 180mm.  
Details available on request.

For large installations a computer software package is available to assist the design, layout and purchase of the correct transit frame and inserts. (See page 60 for more details).

**RG/RGP-plans will be supplied free of charge on request.**



The Company

Why MCT Brattberg

The Products

Multiple Frames

Planning the Packing Space

Frames for Marine/Offshore

Frames for Civil/Industry

RGP Frames & Seals

Blocks & Components

Frame Installation Methods

Packing Guides

EMC Protection

Deck & Bulkhead Glands

SR Cable & Pipe Seals

MSR Cable Glands

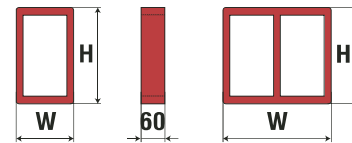
X-Series Cable Transit

Transit Planning Software

## RGS RGSO With Removable End

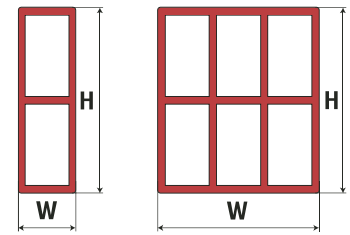
RGS is MCT Brattberg's standard frame for marine applications. It has a standard internal width of 120mm, is 60mm deep and is manufactured from 10mm thick materials. There are four sizes of RGS, denoted by 2, 4, 6 and 8 depending on their height. They may be combined vertically & horizontally to create multiple frames.

The RGS is welded into an accurately precut hole in the deck or bulkhead. As with all our frames, RGS is produced in mild steel, stainless steel, or aluminium. For installations where cables are already in place, select RGSO, which has a removable end.



RGS 6

RGS 6 x 2

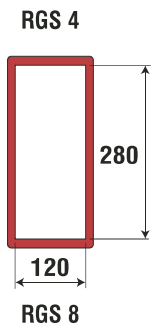
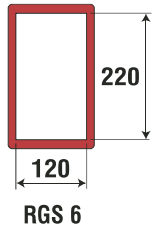
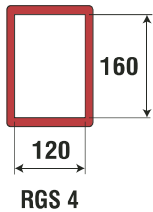
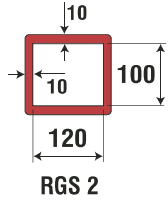


RGS 6 + 6

RGS 6 + 6 x 3

Size In mm								
Frame Size	(Height)	W (width) / Multiple Frames						
		x 1	x 2	x 3	x 4	x 5	x 6	x n
RGS-2	121	140.5	271	401.5	532	662.5	793	W =10+ 130.5 x n
RGS-4	179.5	"	"	"	"	"	"	
RGS-6	238	"	"	"	"	"	"	
RGS-8	296.5	"	"	"	"	"	"	
RGS-2+2	242		"	"	"	"	"	
RGS-2+4	300.5		"	"	"	"	"	
RGS-2+6	359		"	"	"	"	"	
RGS-2+8	417.5		"	"	"	"	"	
RGS-4+4	359		"	"	"	"	"	
RGS-4+6	417.5		"	"	"	"	"	
RGS-4+8	476		"	"	"	"	"	
RGS-2+2	476		"	"	"	"	"	
RGS-2+2	534.5		"	"	"	"	"	
RGS-2+2	593		"	"	"	"	"	
RGS-2+2	232		140.5	<p><b>n = number of frames wide.</b>  <b>Tolerance single frame:</b>  <b>Height ± 1mm, Width ± 0,8mm.</b>  <b>Material thickness is 10mm.</b></p> <p><b>All measurements are in millimetres.</b></p>				
RGS-2+2	290.5		"					
RGS-2+2	349	"						
RGS-2+2	407.5	"						
RGS-4+4	349	"						
RGS-4+6	407.5	"						
RGS-4+8	466	"						
RGS-6+6	466	"						
RGS-6+8	524.5	"						
RGS-8+8	583	"						

# Weights



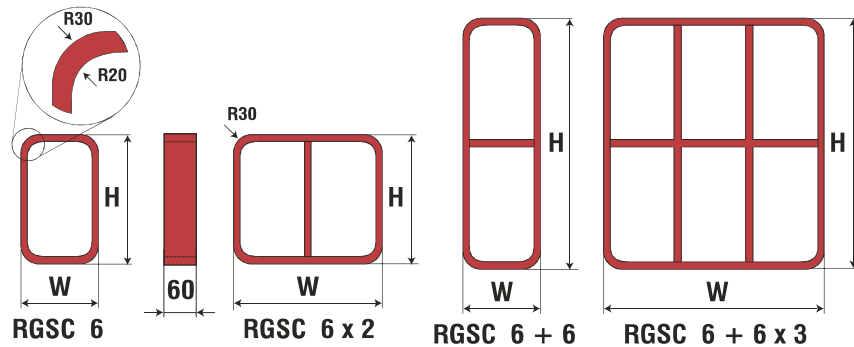
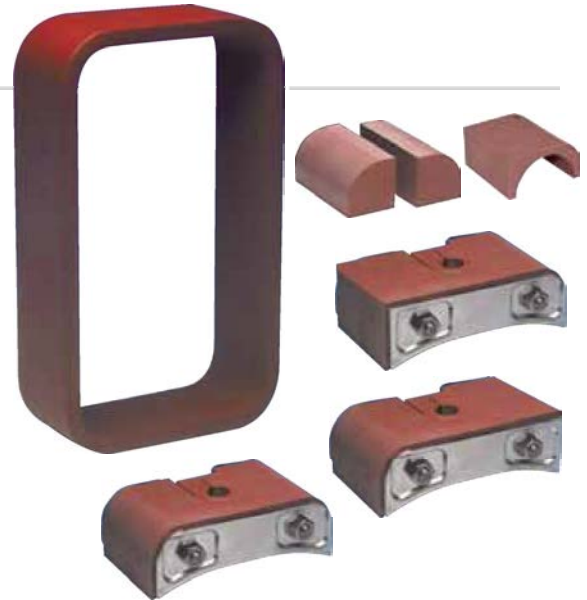
Material	Frame Size / Combination	x1	x2	x3	x4	x5	x6
		<b>Mild Steel</b> EN10025 S235JRG2 BS 4360 gr.40					
	RGS-2	2.2	3.9	5.7	7.4	9.2	10.9
	RGS-4	2.7	4.6	6.5	8.4	10.3	12.2
	RGS-6	3.2	5.4	7.6	9.8	12.0	14.2
	RGS-8	3.8	6.3	8.9	11.4	14.0	16.5
	RGS-2 + 2	3.6	8.1	11.9	15.7	19.5	23.3
	RGS-2 + 4	4.2	8.8	12.8	16.7	20.7	24.6
	RGS-2 + 6	4.8	9.5	13.6	17.8	21.9	26.0
	RGS-2 + 8	5.5	10.3	14.7	19.1	23.5	27.9
	RGS-4 + 4	4.8	9.5	13.6	17.8	21.9	26.0
	RGS-4 + 6	5.5	10.3	14.7	19.1	23.5	27.9
	RGS-4 + 8	5.9	11.1	15.8	20.5	25.1	29.8
	RGS-6 + 6	5.9	11.1	15.8	20.5	25.1	29.8
	RGS-6 + 8	6.5	12.0	17.0	22.1	27.1	32.1
	RGS-8 + 8	7.2	12.9	18.3	23.7	29.1	34.5
	<b>Stainless Steel</b> EN10088-1 1.4404 BS 970 gr.316						
	RGS-2	2.2	4.0	5.8	7.6	9.4	11.2
	RGS-4	2.8	4.7	6.7	8.6	10.6	12.6
	RGS-6	3.3	5.5	7.8	10.0	12.3	14.5
	RGS-8	3.9	6.5	9.1	11.7	14.3	16.9
	RGS-2 + 2	3.7	8.3	12.2	16.1	20.0	23.9
	RGS-2 + 4	4.3	9.0	13.1	17.1	21.2	25.2
	RGS-2 + 6	4.9	9.7	14.0	18.2	22.5	26.7
	RGS-2 + 8	5.6	10.6	15.1	19.6	24.1	28.6
	RGS-4 + 4	4.9	9.7	14.0	18.2	22.5	26.7
	RGS-4 + 6	5.6	10.6	15.1	19.6	24.1	28.6
	RGS-4 + 8	6.0	11.4	16.2	21.0	25.8	30.6
	RGS-6 + 6	6.0	11.4	16.2	21.0	25.8	30.6
	RGS-6 + 8	6.7	12.3	17.5	22.6	27.8	32.9
	RGS-8 + 8	7.4	13.2	18.8	24.3	29.9	35.4
	<b>Aluminium</b> EN AW-6082 BS 1474 gr.6082						
	RGS-2	0.8	1.4	2.0	2.6	3.2	3.8
	RGS-4	1.0	1.6	2.3	3.0	3.6	4.3
	RGS-6	1.1	1.9	2.7	3.4	4.2	5.0
	RGS-8	1.3	2.2	3.1	4.0	4.9	5.8
	RGS-2 + 2	1.3	2.8	4.2	5.5	6.9	8.2
	RGS-2 + 4	1.5	3.1	4.5	5.9	7.2	8.6
	RGS-2 + 6	1.7	3.3	4.8	6.2	7.7	9.1
	RGS-2 + 8	1.9	3.6	5.2	6.7	8.3	9.8
	RGS-4 + 4	1.7	3.3	4.8	6.2	7.7	9.1
	RGS-4 + 6	1.9	3.6	5.2	6.7	8.3	9.8
	RGS-4 + 8	2.1	3.9	5.5	7.2	8.8	10.4
	RGS-6 + 6	2.1	3.9	5.5	7.2	8.8	10.4
	RGS-6 + 8	2.3	4.2	6.0	7.7	9.5	11.2
	RGS-8 + 8	2.5	4.5	6.4	8.3	10.2	12.1

**Weight Chart In Kilograms**

- The Company
- Why MCT Brattberg
- The Products
- Multiple Frames
- Planning the Packing Space
- Frames for Marine/Offshore
- Frames for Civil/Industry
- RGP Frames & Seals
- Blocks & Components
- Frame Installation Methods
- Packing Guides
- EMC Protection
- Deck & Bulkhead Glands
- SR Cable & Pipe Seals
- MSR Cable Glands
- X-Series Cable Transit
- Transit Planning Software

## RGSC

RGSC is a frame with rounded corners, which reduces the risk of cracks forming in decks and bulkheads that are subjected to high stresses. Similar to the RGS frame, it is available in sizes 2, 4, 6 and 8. They may be combined vertically & horizontally to create multiple frames. Available in mild steel, stainless steel and aluminium.



Size In mm								
Frame Size	(Height)	W (width) / Multiple Frames						
		x 1	x 2	x 3	x 4	x 5	x 6	x n
RGS-2	121	140.5	271	401.5	532	662.5	793	W = 10+ 130.5 x n
RGS-4	179.5	"	"	"	"	"	"	
RGS-6	238	"	"	"	"	"	"	
RGS-8	296.5	"	"	"	"	"	"	
RGS-2+2	242		"	"	"	"	"	
RGS-2+4	300.5		"	"	"	"	"	
RGS-2+6	359		"	"	"	"	"	
RGS-2+8	417.5		"	"	"	"	"	
RGS-4+4	359		"	"	"	"	"	
RGS-4+6	417.5		"	"	"	"	"	
RGS-4+8	476		"	"	"	"	"	
RGS-6+6	476		"	"	"	"	"	
RGS-6+8	534.5		"	"	"	"	"	
RGS-8+8	593		"	"	"	"	"	
RGS-2+2	232	140.5	<p>n = number of frames wide. Tolerance single frame: Height ± 1mm, Width ± 0.8mm. Material thickness is 10mm.</p> <p>All measurements are in millimetres.</p>					
RGS-2+4	290.5	"						
RGS-2+6	349	"						
RGS-2+8	407.5	"						
RGS-4+4	349	"						
RGS-4+6	407.5	"						
RGS-4+8	466	"						
RGS-6+6	466	"						
RGS-6+8	524.5	"						
RGSC-8+8	583	"						

The Company

Why MCT Brattberg

The Products

Multiple Frames

Planning the Packing Space

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RGP Frames & Seals

Blocks & Components

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Packing Guides

EMC Protection

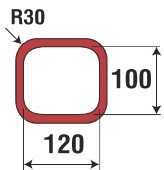
Deck & Bulkhead Glands

SR Cable & Pipe Seals

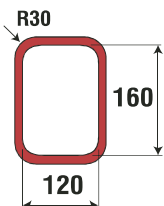
MSR Cable Glands

X-Series Cable Transit

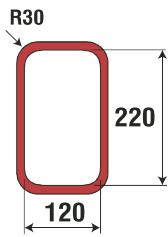
Transit Planning Software



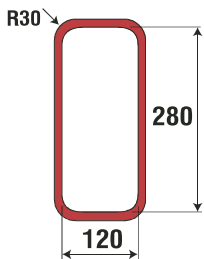
RGSC 2



RGSC 4



RGSC 6

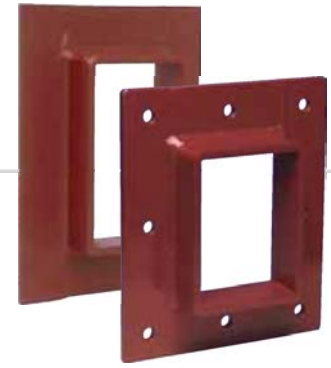


RGSC 8

Material	Frame Size / Combination	Weight Chart In Kilograms					
		x1	x2	x3	x4	x5	x6
Mild Steel EN10025 S235JRG2 BS 4360 gr.40	RGSC-2	2.2	3.9	5.7	7.4	9.2	10.9
	RGSC-4	2.7	4.6	6.5	8.4	10.3	12.2
	RGSC-6	3.2	5.4	7.6	9.8	12.0	14.2
	RGSC-8	3.8	6.3	8.9	11.4	14.0	16.5
	RGSC-2 + 2	3.6	8.1	11.9	15.7	19.5	23.3
	RGSC-2 + 4	4.2	8.8	12.8	16.7	20.7	24.6
	RGSC-2 + 6	4.8	9.5	13.6	17.8	21.9	26.0
	RGSC-2 + 8	5.5	10.3	14.7	19.1	23.5	27.9
	RGSC-4 + 4	4.8	9.5	13.6	17.8	21.9	26.0
	RGSC-4 + 6	5.5	10.3	14.7	19.1	23.5	27.9
	RGSC-4 + 8	5.9	11.1	15.8	20.5	25.1	29.8
	RGSC-6 + 6	5.9	11.1	15.8	20.5	25.1	29.8
RGSC-6 + 8	6.5	12.0	17.0	22.1	27.1	32.1	
RGSC-8 + 8	7.2	12.9	18.3	23.7	29.1	34.5	
Stainless Steel EN10088-1 1.4404 BS 970 gr.316	RGSC-2	2.2	4.0	5.8	7.6	9.4	11.2
	RGSC-4	2.8	4.7	6.7	8.6	10.6	12.6
	RGSC-6	3.3	5.5	7.8	10.0	12.3	14.5
	RGSC-8	3.9	6.5	9.1	11.7	14.3	16.9
	RGSC-2 + 2	3.7	8.3	12.2	16.1	20.0	23.9
	RGSC-2 + 4	4.3	9.0	13.1	17.1	21.2	25.2
	RGSC-2 + 6	4.9	9.7	14.0	18.2	22.5	26.7
	RGSC-2 + 8	5.6	10.6	15.1	19.6	24.1	28.6
	RGSC-4 + 4	4.9	9.7	14.0	18.2	22.5	26.7
	RGSC-4 + 6	5.6	10.6	15.1	19.6	24.1	28.6
	RGSC-4 + 8	6.0	11.4	16.2	21.0	25.8	30.6
	RGSC-6 + 6	6.0	11.4	16.2	21.0	25.8	30.6
RGSC-6 + 8	6.7	12.3	17.5	22.6	27.8	32.9	
RGSC-8 + 8	7.4	13.2	18.8	24.3	29.9	35.4	
Aluminium EN AW-6082 BS 1474 gr.6082	RGSC-2	0.8	1.4	2.0	2.6	3.2	3.8
	RGSC-4	1.0	1.6	2.3	3.0	3.6	4.3
	RGSC-6	1.1	1.9	2.7	3.4	4.2	5.0
	RGSC-8	1.3	2.2	3.1	4.0	4.9	5.8
	RGSC-2 + 2	1.3	2.8	4.2	5.5	6.9	8.2
	RGSC-2 + 4	1.5	3.1	4.5	5.9	7.2	8.6
	RGSC-2 + 6	1.7	3.3	4.8	6.2	7.7	9.1
	RGSC-2 + 8	1.9	3.6	5.2	6.7	8.3	9.8
	RGSC-4 + 4	1.7	3.3	4.8	6.2	7.7	9.1
	RGSC-4 + 6	1.9	3.6	5.2	6.7	8.3	9.8
	RGSC-4 + 8	2.1	3.9	5.5	7.2	8.8	10.4
	RGSC-6 + 6	2.1	3.9	5.5	7.2	8.8	10.4
RGSC-6 + 8	2.3	4.2	6.0	7.7	9.5	11.2	
RGSC-8 + 8	2.5	4.5	6.4	8.3	10.2	12.1	

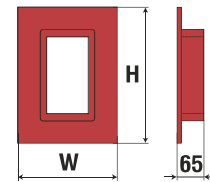


## RGSF/RGSFB RGSFO/RGSFBO With Removable End

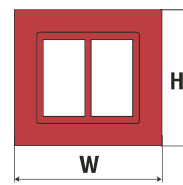


RGSF is a standard RGS frame with a flange that allows the frame to be welded over a hole which is slightly larger than the frame. RGSF frames are available in four standard sizes, 2, 4, 6 and 8, and has the internal measurements of the RGS, with a flange: 60mm wide and 10mm thick. They may be combined vertically & horizontally to create multiple frames. For installations where cables are already in place, specify RGSFO which has a removable end.

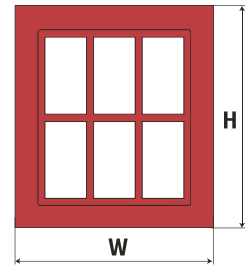
The RGSFB frame is similar to RGSF except that it is bolted to the deck or bulkhead. The bolted frames can be used in areas where hot working is prohibited, or when the stress level induced by welding is unacceptable. RGSFB frames are supplied in kit form, complete with drilled holes, nuts, bolts, washers and a sealing compound to be installed between the flange and the deck or bulkhead to ensure a gas-tight installation. For installations where cables are already in place, specify RGSFBO which has a removable end.



RGSF 6



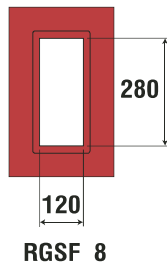
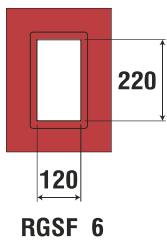
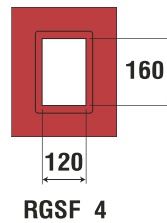
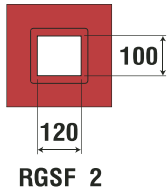
RGSF 6 x 2



RGSF 6 + 6 x 3

Size In mm								
Frame Size	(Height)	W (width) / Multiple Frames						
		x 1	x 2	x 3	x 4	x 5	x 6	x n
RGSF/B-2	241	260.5	391	521.5	652	782.5	913	W = 130+ 130.5 x n
RGSF/B-4	299.5	"	"	"	"	"	"	
RGSF/B-6	358	"	"	"	"	"	"	
RGSF/B-8	416.5	"	"	"	"	"	"	
RGSF/B-2+2	362	260.5	"	"	"	"	"	n = number of frames wide. Tolerance single frame: Height ± 1mm, Width ± 0.8mm. Material thickness is 10mm.
RGSF/B-2+4	420.5		"	"	"	"	"	
RGSF/B-2+6	479		"	"	"	"	"	
RGSF/B-2+8	537.5		"	"	"	"	"	
RGSF/B-4+4	479		"	"	"	"	"	
RGSF/B-4+6	537.5		"	"	"	"	"	
RGSF/B-4+8	596		"	"	"	"	"	
RGSF/B-6+6	596		"	"	"	"	"	
RGSF/B-6+8	654.5		"	"	"	"	"	
RGSF/B-8+8	713		"	"	"	"	"	
RGSF/B-2+2	352	260.5	" " " " " " " "					
RGSF/B-2+4	410.5	"						
RGSF/B-2+6	469	"						
RGSF/B-2+8	527.5	"						
RGSF/B-4+4	469	"						
RGSF/B-4+6	527.5	"						
RGSF/B-4+8	586	"						
RGSF/B-6+6	586	"						
RGSF/B-6+8	644.5	"						
RGSF/B-8+8	703	"						

# INTERNAL Dimensions Of 2, 4, 6 And 8 Transit Frames



Material	Frame Size / Combination	x1	x2	x3	x4	x5	x6
		<b>Weight Chart In Kilograms (RGSF Only)</b>					
<b>Mild Steel</b> EN10025 S235JRG2 BS 4360 gr.40	2	5.9	8.9	11.8	14.8	17.8	20.7
	4	7.0	10.3	13.6	16.9	20.2	23.4
	6	8.0	11.5	15.1	18.6	22.1	25.6
	8	9.0	12.8	16.5	20.3	24.0	27.8
	2 + 2	8.4	13.9	19.0	24.0	29.1	34.1
	2 + 4	9.5	15.3	20.5	25.7	30.9	36.1
	2 + 6	10.6	16.5	21.9	27.2	32.6	37.9
	2 + 8	11.7	17.9	23.5	29.2	34.8	40.4
	4 + 4	10.6	16.5	21.9	27.2	32.6	37.9
	4 + 6	11.7	17.9	23.5	29.2	34.8	40.4
	4 + 8	12.8	19.2	25.1	31.0	36.9	42.8
	6 + 6	12.8	19.2	25.1	31.0	36.9	42.8
	6 + 8	13.9	20.6	26.9	33.1	39.4	45.6
8 + 8	15.0	22.1	28.7	35.4	42.0	48.6	
<b>Stainless Steel</b> EN10088-1 1.4404 BS 970 gr.316	2	6.1	9.1	12.1	15.2	18.2	21.2
	4	7.2	10.6	13.9	17.3	20.7	24.0
	6	8.2	11.8	15.4	19.0	22.7	26.3
	8	9.2	13.1	16.9	20.8	24.6	28.5
	2 + 2	8.6	14.3	19.5	24.7	29.8	35.0
	2 + 4	9.7	15.7	21.0	26.4	31.7	37.0
	2 + 6	10.9	16.9	22.4	27.9	33.4	38.9
	2 + 8	12.0	18.4	24.2	29.9	35.7	41.4
	4 + 4	10.9	16.9	22.4	27.9	33.4	38.9
	4 + 6	12.0	18.4	24.2	29.9	35.7	41.4
	4 + 8	13.1	19.7	25.8	31.8	37.9	43.9
	6 + 6	13.1	19.7	25.8	31.8	37.9	43.9
	6 + 8	14.3	21.1	27.5	33.9	40.3	46.7
8 + 8	15.4	22.7	29.5	36.3	43.0	49.8	
<b>Aluminium</b> EN AW-6082 BS 1474 gr.6082	2	2.1	3.1	4.1	5.2	6.2	7.3
	4	2.5	3.6	4.8	5.9	7.1	8.2
	6	2.8	4.0	5.3	6.5	7.7	9.0
	8	3.2	4.5	5.8	7.1	8.4	9.7
	2 + 2	2.9	4.9	6.7	8.4	10.2	11.9
	2 + 4	3.3	5.4	7.2	9.1	10.9	12.7
	2 + 6	3.7	5.8	7.7	9.6	11.4	13.3
	2 + 8	4.1	6.3	8.3	10.2	12.2	14.1
	4 + 4	3.7	5.8	7.7	9.6	11.4	13.3
	4 + 6	4.1	6.3	8.3	10.2	12.2	14.1
	4 + 8	4.5	6.7	8.8	10.9	12.9	15.0
	6 + 6	4.5	6.7	8.8	10.9	12.9	15.0
	6 + 8	4.9	7.2	9.4	11.6	13.7	15.9
8 + 8	5.3	7.7	10.0	12.4	14.7	17.0	

- The Company
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- Planning the Packing Space
- Frames for Marine/Offshore**
- Frames for Civil/Industry
- RGP Frames & Seals
- Blocks & Components
- Frame Installation Methods
- Packing Guides
- EMC Protection
- Deck & Bulkhead Glands
- SR Cable & Pipe Seals
- MSR Cable Glands
- X-Series Cable Transit
- Transit Planning Software

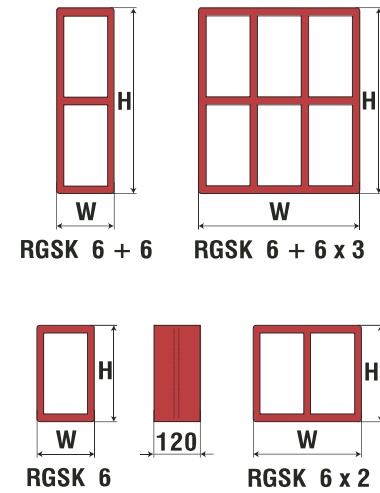
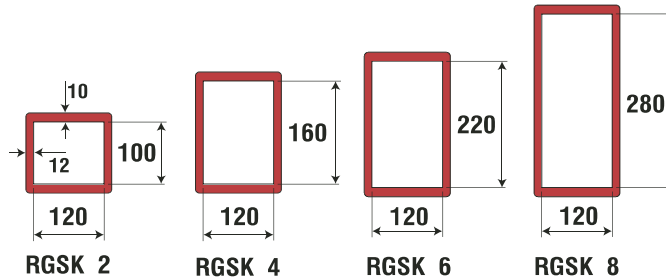
## RGSK/RGSbtb

RGSK is an extended RGS frame, with machined grooves for stayplates and compression plates. The material is 10mm thick on the ends and 12mm thick on the sides. RGSK is available in four standard sizes: 2, 4, 6 and 8.

The frame allows installation in positions where the transit needs to be elevated above possible contamination.

RGSbtb is a double frame which is packed from both sides, enabling a pressure seal of up to 5 bar (test pressure) on either side of the penetration. Installations with this frame can be pressure tested using space between the two sets of blocks. They also conform to jet-fire rating.

The frame is 10mm thick on the top and bottom and 12mm thick on the sides. It is 200mm deep. Other dimensions are the same as for the RGS. RGSbtb is available in four standard sizes: 2, 4, 6, and 8. They may be combined vertically & horizontally to create multiple frames.



Size In mm								
Frame ize	(Height)	W (width) / Multiple Frames						
		x 1	x 2	x 3	x 4	x 5	x 6	x n
RGSK/RGS/btb-2	121	144.5	275	405.5	536	666.5	797	W = 14+
RGSK/RGS/btb-4	179.5	"	"	"	"	"	"	130.5 x n
RGSK/RGS/btb-6	238	"	"	"	"	"	"	
RGSK/RGS/btb-8	296.5	"	"	"	"	"	"	
RGSK/RGS/btb-2+2	232	"	"	"	"	"	"	
RGSK/RGS/btb-2+4	290.5	"	"	"	"	"	"	"
RGSK/RGS/btb-2+6	349	"	"	"	"	"	"	"
RGSK/RGS/btb-2+8	407.5	"	"	"	"	"	"	"
RGSK/RGS/btb-4+4	349	"	"	"	"	"	"	"
RGSK/RGS/btb-4+6	407.5	"	"	"	"	"	"	"
RGSK/RGS/btb-4+8	466	"	"	"	"	"	"	"
RGSK/RGS/btb-6+6	466	"	"	"	"	"	"	"
RGSK/RGS/btb-6+8	524.5	"	"	"	"	"	"	"
RGSK/RGS/btb-8+8	583	"	"	"	"	"	"	"

Tolerance single frame:  
Height ± 1mm, Width ± 0.8mm.  
Material thickness is 10mm.

# RGSK

# RGSbtb

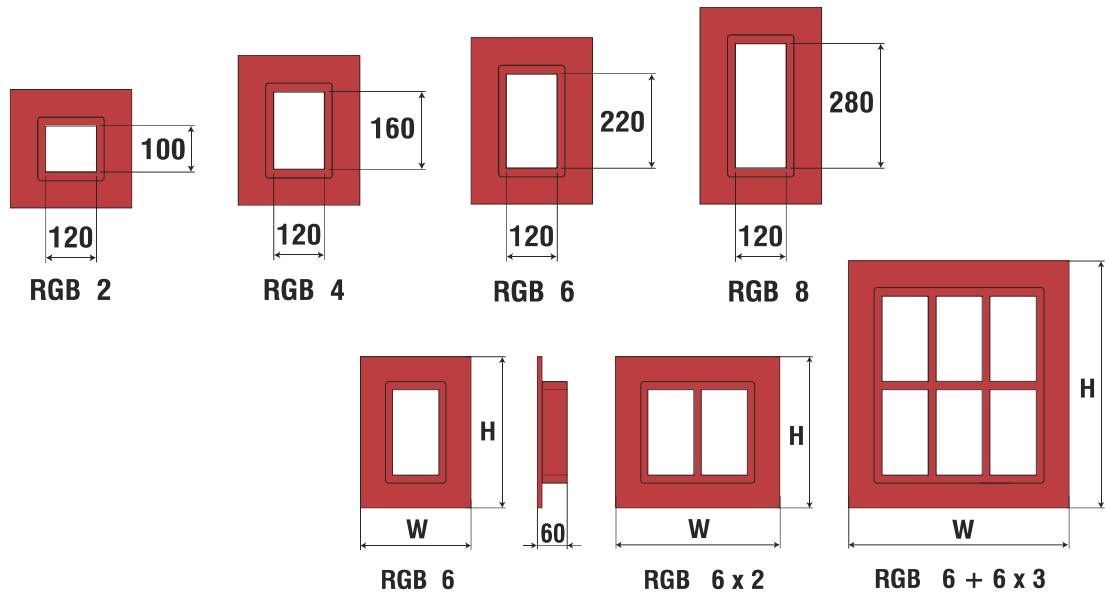
Weight Chart In Kilograms	Material	Frame Size / Combination	x1	x2	x3	x4	x5	x6	
	<b>Mild Steel</b> EN10025 S235JRG2 BS 4360 gr.40	RGSK-2	4.7	7.7	10.7	13.7	16.7	19.7	
		RGSK-4	6.0	9.3	12.6	15.9	19.2	22.5	
		RGSK-6	7.3	10.9	14.5	18.2	21.8	25.4	
		RGSK-8	8.7	12.5	6.4	20.4	24.3	28.2	
		RGSK-2+2	7.8	11.9	16.1	20.4	24.6	28.8	
		RGSK-2+4	9.2	13.6	18.1	22.6	27.1	31.6	
		RGSK-2+6	10.6	15.2	20.0	24.8	29.5	34.3	
		RGSK-2+8	11.9	16.9	22.0	27.0	32.1	37.1	
		RGSK-4+4	10.6	15.2	20.0	24.8	29.5	34.3	
RGSK-4+6		11.9	16.9	22.0	27.0	32.1	37.1		
RGSK-4+8		13.2	18.4	23.7	29.1	34.4	39.7		
RGSK-6+6		13.2	18.4	23.7	29.1	34.4	39.7		
RGSK-6+8	14.5	20.0	25.5	31.0	36.5	42.5			
RGSK-8+8	15.9	21.6	27.4	33.2	38.9	45.2			
<b>Stainless Steel</b> EN10088-1 1.4404 BS 970 gr.316	RGSK-2	4.8	7.9	11.0	14.1	17.1	20.2		
	RGSK-4	6.2	9.5	12.9	16.3	19.7	23.1		
	RGSK-6	7.5	11.2	14.9	18.6	22.3	26.0		
	RGSK-8	8.9	12.8	16.8	20.9	24.9	28.9		
	RGSK-2+2	8.0	12.2	16.5	20.9	25.2	29.5		
	RGSK-2+4	9.4	13.9	18.5	23.2	27.8	32.4		
	RGSK-2+6	10.9	15.6	20.5	25.4	30.3	35.2		
	RGSK-2+8	12.2	17.3	22.5	27.7	32.8	38.0		
	RGSK-4+4	10.9	15.6	20.5	25.4	30.3	35.2		
	RGSK-4+6	12.2	17.3	22.5	27.7	32.8	38.0		
	RGSK-4+8	13.5	18.9	24.4	29.8	35.3	40.7		
	RGSK-6+6	13.5	18.9	24.4	29.8	35.3	40.7		
RGSK-6+8	14.9	20.5	26.3	32.1	37.8	43.6			
RGSK-8+8	16.3	22.1	28.2	34.2	40.3	46.3			
<b>Aluminium</b> EN AW-6082 BS 1474 gr.6082	RGSK-2	1.7	2.7	3.7	4.8	5.8	6.8		
	RGSK-4	2.1	3.3	4.5	5.6	6.8	7.9		
	RGSK-6	2.6	3.8	5.1	6.4	7.6	8.9		
	RGSK-8	3.1	4.4	5.8	7.2	8.5	9.9		
	RGSK-2+2	2.7	4.2	5.7	7.2	8.6	10.1		
	RGSK-2+4	3.2	4.8	6.4	8.0	9.5	11.1		
	RGSK-2+6	3.7	5.3	7.0	8.7	10.3	12.0		
	RGSK-2+8	4.2	5.9	7.7	9.5	11.2	13.0		
	RGSK-4+4	3.7	5.3	7.0	8.7	10.3	12.0		
	RGSK-4+6	4.2	5.9	7.7	9.5	11.2	13.0		
	RGSK-4+8	4.6	6.4	8.3	10.2	12.0	13.9		
	RGSK-6+6	4.6	6.4	8.3	10.2	12.0	13.9		
RGSK-6+8	5.1	7.0	9.0	11.0	12.9	14.9			
RGSK-8+8	5.6	7.6	9.7	11.7	13.8	15.8			

Size	x1	x2	x3	x4	x5	x6
2	7.9	13.0	18.4	23.7	29.1	34.4
4	10.1	15.8	21.7	27.6	33.5	39.4
6	12.4	18.6	25.1	31.5	38.0	44.4
8	14.5	21.2	28.2	35.2	42.2	49.2
2+2	13.5	20.9	28.5	36.1	43.7	51.3
2+4	15.3	23.3	31.5	39.7	47.8	56.0
2+6	17.8	26.3	35.0	43.7	52.4	61.1
2+8	20.0	29.1	38.4	47.7	56.9	66.2
4+4	17.8	26.3	35.0	43.7	52.4	61.1
4+6	20.0	29.1	38.4	47.7	56.9	66.2
4+8	22.3	31.9	41.7	51.5	61.3	71.1
6+6	22.3	31.9	41.7	51.5	61.3	71.1
6+8	24.5	34.7	45.1	55.5	65.8	76.2
8+8	26.6	37.3	48.2	59.2	70.1	81.0
2	8.1	13.3	18.8	24.3	29.8	35.3
4	10.4	16.2	22.3	28.3	34.4	40.4
6	12.7	19.1	25.7	32.3	38.9	45.5
8	14.9	21.7	28.9	36.1	43.2	50.4
2+2	13.8	21.4	29.2	37.0	44.8	52.6
2+4	15.7	23.9	32.3	40.7	49.0	57.4
2+6	18.3	27.0	35.9	44.8	53.7	62.6
2+8	20.5	29.8	39.3	48.9	58.4	67.9
4+4	18.3	27.0	35.9	44.8	53.7	62.6
4+6	20.5	29.8	39.3	48.9	58.4	67.9
4+8	22.9	32.7	42.8	52.8	62.9	72.9
6+6	22.9	32.7	42.8	52.8	62.9	72.9
6+8	25.1	35.6	46.1	56.9	67.5	78.1
8+8	27.3	38.2	49.4	60.6	71.8	83.0
2	2.8	4.6	6.5	8.3	10.2	12.0
4	3.5	5.5	7.6	9.7	11.7	13.8
6	4.3	6.5	8.8	11.0	13.3	15.5
8	5.1	7.4	9.9	12.3	14.8	17.2
2+2	4.7	7.3	10.0	12.7	15.3	18.0
2+4	5.4	8.2	11.1	13.9	16.8	19.6
2+6	6.2	9.2	12.3	15.3	18.4	21.4
2+8	7.0	10.2	13.5	16.7	20.0	23.2
4+4	6.2	9.2	12.3	15.3	18.4	21.4
4+6	7.0	10.2	13.5	16.7	20.0	23.2
4+8	7.8	11.2	14.6	18.1	21.5	24.9
6+6	7.8	11.2	14.6	18.1	21.5	24.9
6+8	8.6	12.2	15.8	19.5	23.1	26.7
8+8	9.3	13.1	16.9	20.8	24.6	28.4

## RGB/RGBO With Removable End

RGB is a frame for casting or bolting to the wall/floor structure. It has a standard internal width of 120mm and is 60mm deep, available in four standard sizes, 2, 4, 6 & 8. The frame is manufactured 60 x 60 x 6mm angle.

For installations where cables are already in place specify the RGBO frame which has a removable end.



Size In mm								
Frame Size	(Height)	W (width) / Multiple Frames						
		x 1	x 2	x 3	x 4	x 5	x 6	x n
RGB-2	221	240.5	371	501.5	632	762.5	893	W = 110+ 130.5 x n
RGB-4	279.5	“	“	“	“	“	“	
RGB-6	338	“	“	“	“	“	“	
RGB-8	396.5	“	“	“	“	“	“	
RGB-2+2	332	“	“	“	“	“	“	
RGB-2+4	390.5	“	“	“	“	“	“	
RGB-2+6	449	“	“	“	“	“	“	
RGB-2+8	507.5	“	“	“	“	“	“	
RGB-4+4	449	“	“	“	“	“	“	
RGB-4+6	507.5	“	“	“	“	“	“	
RGB-4+8	566	“	“	“	“	“	“	
RGB-6+6	566	“	“	“	“	“	“	
RGB-6+8	624.5	“	“	“	“	“	“	
RGB-8+8	683	“	“	“	“	“	“	

n = number of frames in width.

**Mild Steel**

EN10025 S235JRG2  
BS 4360 gr.40

**Stainless Steel**

EN10088-1 1.4404  
BS 970 gr.316

**Aluminium**

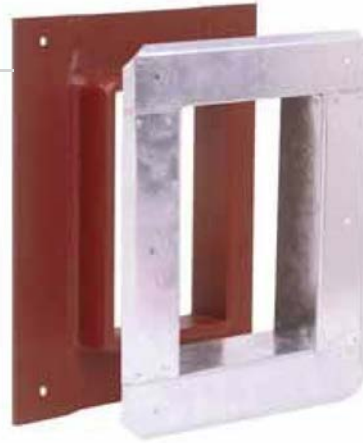
EN AW-6082  
BS 1474 gr.6082

## RGG/RGGO With Removable End

RGG is a standard frame designed for plaster board or composite walls. It consists of two parts: a steel frame and a counter frame which neatly closes and seals the cut opening. Both frames are pre-drilled. RGG has the same dimensions as RGB.

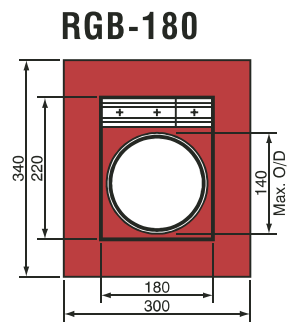
The counter frame is available in three different depths to fit different wall thickness, see table below.

For installations where cables already are in place select the RGGO frame which has a removable end.



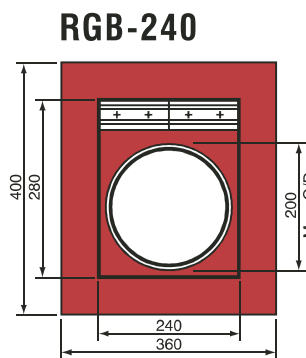
Wall Thickness (mm)		
Counter Frame/type	Min	Max
1	80	110
2	110	150
3	150	190

## RGB/RGBO 180, 240 & 360 pipe transits



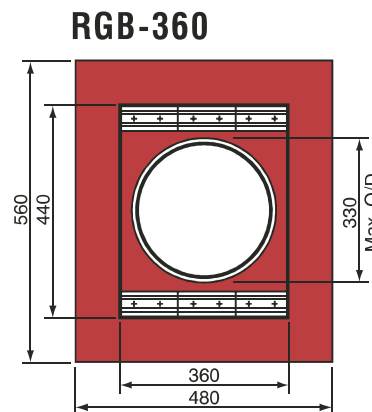
**Transit**  
RGB-180  
RGBO-180

**Compression**  
Presswedge  
1 x PTG-120 +  
1 x PTG-60



**Transit**  
RGB-240  
RGBO-240

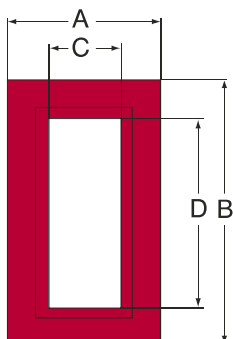
**Compression**  
Presswedge  
2 x PTG-120



**Transit**  
RGB-360  
RGBO-360

**Compression**  
Presswedge  
6 x PTG-120

## RGB 1, 3, & 5



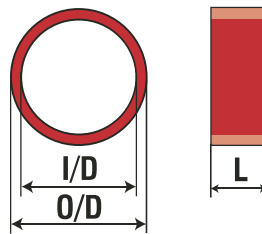
Frame Size	Dimensions			
	A	B	C	D
RGB1	180	221	60	100
RGB3	180	279.5	60	160
RGB5	180	338	60	220

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- MSR Cable Glands
- X-Series Cable Transit
- Transit Planning Software

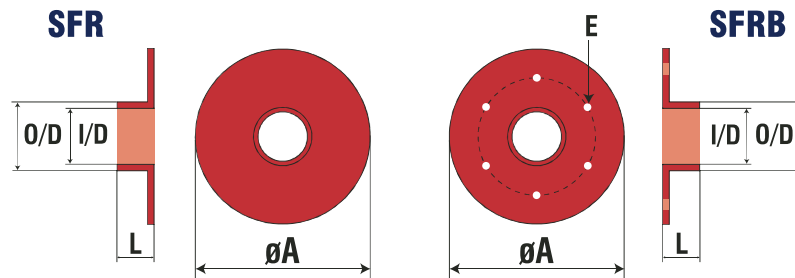
## Sleeves

The sleeve, is available in seven sizes, for welding, casting or bolting to the structure.

The standard materials are mild steel, stainless steel and aluminium.



Type S Without Flange				
Type/size	O/D mm	I/D mm	L mm	Weight
S 50	63	51	70	0.6
S 70	83	71	70	0.8
S 100	114	102	70	1.1
S 125	140	128	70	1.4
S 150	164	152	82	1.9
S 200	214	202	82	2.5
S 300	316	302	85	4.5



Type SFR With Round Flange							
Type/size	O/D mm	I/D mm	A mm	L mm	E mm	No. Of Holes	Weight kg
SFR 50	63	51	145	73	9	4	1.2
SFR 70	83	71	185	74	9	4	2.1
SFR 100	114	102	215	74	9	4	2.7
SFR 125	140	128	240	74	9	4	4.0
SFR 150	164	152	264	86	11	6	4.0
SFR 200	214	202	315	86	11	6	5.1
SFR 300	316	302	398	89	11	12	7.3

# RGP – RGPO

RGP is a Lycron frame for assembly in sleeves, diamond drilled or cast holes. It is available in seven sizes and is packed with standard MCT insert blocks. The metal parts are available in galvanised or stainless steel.

RGPO is a Lycron frame with open sides intended for installation in holes where cables have already been installed.



Frame Size	Weight In kgs	Packing Space	Length x Diameter	Internal Hole Diameter
RGP 50	0.2	20 20	72 x 50	50.5 + 1.5 - 0
RGP 70	0.4	40 40	72 x 70	70.5 + 1.5 - 0
RGP 100	0.7	60 60	80 x 100	100.5 + 1.5 - 0
RGP 125	1.0	80 80	80 x 125	125.5 + 1.5 - 0
RGP 150	1.8	90 90	80 x 150	150.5 + 1.5 - 0
RGP 200	2.9	120 120	80 x 200	200.5 + 1.5 - 0
RGP 300	7.5	180 180	80 x 300	300.5 + 1.5 - 0

- The Company
- Why MCT Brattberg
- The Products
- Multiple Frames
- Planning the Packing Space
- Frames for Marine/Offshore
- Frames for Civil/Industry
- RGP Frames & Seals**
- Blocks & Components
- Frame Installation Methods
- Packing Guides
- EMC Protection
- Deck & Bulkhead Glands
- SR Cable & Pipe Seals
- MSR Cable Glands
- X-Series Cable Transit
- Transit Planning Software