

INTRODUCTION

We thank you for your interest in our range of products and services and hope that you find this catalogue helpful.

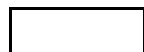
We have tried to list as much relevant information as possible, but should you find that your particular requirements are not listed, then please contact our sales office who will be pleased to help.

This catalogue is one of a set and should you require others in the series, please do not hesitate to call.

Whilst every effort is made to ensure that the information is accurate and correct, the conditions under which Portmere Rubber products are used are beyond our control and therefore our recommendations are made without warranty or guarantee. Portmere Rubber reserve the right to change specifications without prior notice.

We shall be pleased to accept your enquiry or order, whether large or small. Orders over any distance will be met from our two factories in the south of England.

Key to items listed.



Normally stock items.



Non-stock items M.O.Q. may apply.

INTRODUCTION 2

EXTRUSIONS

Listed in this section are the wide range of extrusions that Portmere can provide - the majority on an ex-stock basis. However, due to the variable demands of all industries, it is impracticable to hold stocks of all sections. Those not stocked are available with minimum delay and no die charge.

Extrusions can be manufactured to customers own design, with tooling costs kept to a minimum. Our technical staff will be pleased to give assistance in any design and choice of rubber compound.

Standard extrusions such as Channels and Fenders are generally manufactured from a compound suitable for the environment in which they are to be used.

As a guide to help you choose your extrusion compound, we list the basic properties of some rubber compounds in the Technical section at the rear of this catalogue.

Minimum order quantities vary according to the size of the section. However, a SMALL amount of any section can be produced at a realistic cost. Please contact our Sales Office for prices, availability or technical assistance.

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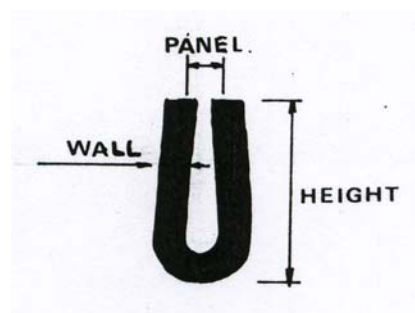
"U" "P" "B" AND "L" SECTIONS

SECTION 1

	cat	sect	pge
"U" Channel.	4.	1.	1
Square "U" Channel	4.	1.	2
Square "U" Channel with Lips.	4.	1.	3
Square "U" Channel with Chamfered Corners.	4.	1.	3
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Hollow "P".	4.	1.	4
Solid "P".	4.	1.	4
Ridged Hollow "P".	4.	1.	4
Hollow Tadpole.	4.	1.	5
Solid Tadpole.	4.	1.	5
Small Hollow "B" Sections.	4.	1.	6
"L" Sections.	4.	1.	7
"L" Sections.	4.	1.	8

"U" CHANNEL

4-1-1

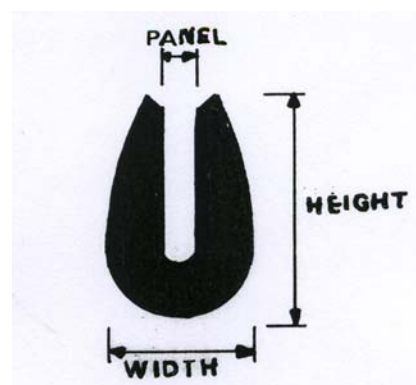


Product Code	Material	Standard length metres	Panel MM	Height MM	Wall MM	Additional Information
J/UC 1/4	SBR	50	1	4	1	Cut lengths available
J/UC 1.5/10	SBR	50	1.5	10	1.2	Cut lengths available
J/UC 1.5/15	Silicone	25	1.5	15	2.8	MOQ apply. Black
J/UC 1.5/10	EPDM	50	1.5	10	1.5	Cut lengths available
J/UC 1.5/15	SBR	50	1.5	15	2.8	Cut lengths available
J/UC 1.5/7	SBR	50	1.5	7	1.5	Cut lengths available
J/UC 2/23	SBR	50	2	23	1.7	MOQ apply
J/UC 2/17	SBR	50	2	17	1.6	Cut lengths available.
J/UC 3/15	SBR	50	3	15	1.5	Cut lengths available.
J/UC 3/16	Neoprene	25	3	16	2.5	MOQ apply.
J/UC 4/8	EPDM	50	4	8	1.4	Cut lengths available.
J/UC 3/21	SBR	50	3	21	2.4	Cut lengths available
J/UC 5/22	SBR	20	5	22	6	MOQ apply
J/UC 6/19	SBR	50	6	19	4	Cut lengths available.
J/UC 8/23	Silicone	20	8	23	6	MOQ apply. White.

FOR LARGE PROFILES SEE GATE SEAL SECTION.

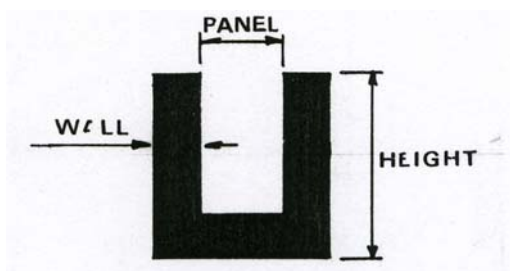
"U" FENDER

- SEE FENDER SECTION -
4-3-9



4-1-2

SQUARE "U" CHANNEL



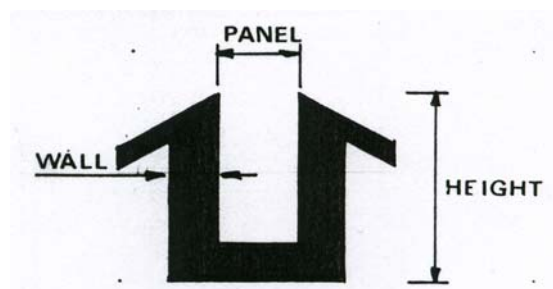
NEW SECTIONS AVAILABLE - MINIMAL COSTS.

FOR INFORMATION ON MATERIALS
SEE TECHNICAL SECTION.

Product Code	Material	Standard Length metres	Panel MM	Height MM	Wall MM	Additional Information
J/SC 2/15	Neoprene	30	2	15	2	Walls toed in for grip. MOQ apply.
J/SC 3/8	SBR	50	3	8	1.6	Cut lengths available.
J/SC 3/10	SBR	50	3	10	1.6	Cut lengths available.
J/SC 3/13	SBR	50	3	13	3	Cut lengths available.
J/SC 3/13E	EPDM	30	3	13	3	White. MOQ apply.
J/SC 3/16	EPDM	50	3	16	1.5	Cut lengths available.
J/SC 3/25	EPDM	50	3	25	3.5	Cut lengths available.
J/SC 3/36	EPDM	30	3	36	4.5	MOQ apply.
J/SC 4/18	Silicone	20	4	18	2	MOQ. Heat resistant.
J/SC 4/30	EPDM	20	4	30	4	White. MOQ apply.
J/SC 4.5/8	SBR	50	4.5	8	1.6	Cut lengths available.
J/SC 4.5/10	SBR	50	4.5	10	2.5	Cut lengths available.
J/SC 4.5/13	Neoprene	50	4.5	13	3	Cut lengths available.
J/SC 4.5/16	SBR	50	4.5	16	1.6	Cut lengths available.
J/SC 6/8	SBR	50	6	8	1.6	Cut lengths available.
J/SC 6/10	SBR	50	6	10	1.8	Cut lengths available.
J/SC 6/16	SBR	50	6	16	1.6	Cut lengths available.
J/SC 6/16N	Neoprene	50	6	16	3.5	Cut lengths available.
J/SC 6/25	EPDM	50	6	25	2.3	Cut lengths available.
J/SC 6/33	SBR	50	6	33	8	MOQ apply.
J/SC 8/12.5	EPDM	50	8	12.5	2	MOQ apply.
J/SC 9/13	SBR	50	9	13	1.6	Cut lengths available.
J/SC 9/27	Neoprene	50	9	27	3	Cut lengths available.
J/SC 9.8/25	Neoprene	2.5	9.8	25	2.5	MOQ apply.
J/SC 10/15	EPDM	20	10	15	2	MOQ apply.
J/SC 11/27	EPDM	50	11	27	3	MOQ apply.
J/SC 11.5/20	Neoprene	20	11.5	20	3	MOQ apply.
J/SC 13/16	SBR	50	13	16	2.4	Cut lengths available.
J/SC 13/16E	EPDM	20	13	16	2.5	White. MOQ apply.
J/SC 2.5/28	SBR	3	2.5	28	3.2	MOQ apply.
J/SC 32/38	EPDM	3	32	38	3	MOQ apply.
J/SC 11/6	Nitrile	15	11	6	3.2	MOQ apply. Oil resistant.
J/SC 16/6	Nitrile	15	16	6	3.2	MOQ apply. Oil resistant.
J/SC 22/16	Nitrile	15	22	6	3.2	MOQ apply. Oil resistant.
J/SC 33/12	Neoprene	15	33	12	4	MOQ apply.
J/SC 40/6	Nitrile	15	40	6	3.2	MOQ apply. Oil resistant.

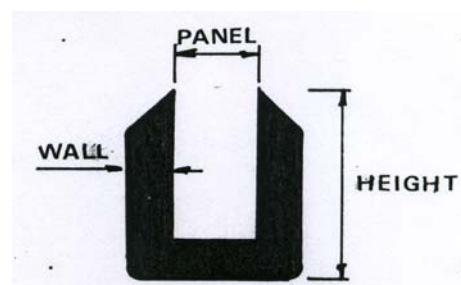
SQUARE CHANNEL (WITH LIPS)

4-1-3



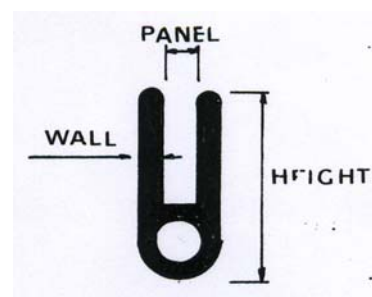
Product Code	Material	Standard Length metres	Panel MM	Height MM	Wall MM	Additional Information
J/SCL 5/11	Neoprene	20	5	11	1.5	Cut coils available.
J/SCL 11/17.5	EPDM	3	11	17.5	2	Lip one side only
J/SCL 15/17.5	EPDM	3	15	17.5	2	Lip one side only.

SQUARE CHANNEL (WITH CHAMFERED CORNERS)



Product Code	Material	Standard Length metres	Panel MM	Height MM	Wall MM	Additional Information
J/SCC 3/13	EPDM	20	3	13	3	White.
J/SCC 8/16	EPDM	20	8	16	4	White. Cut lengths available.

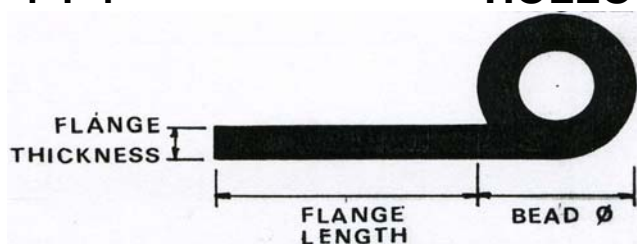
"U" CHANNEL (WITH HOLLOW BEAD)



Product Code	Material	Standard Length metres	Panel MM	Height MM	Wall MM	Additional Information
J/SCB 3/15	EPDM	20	3	15	1.5	MOQ apply.
J/SCB 1.5/15	Silicone	20	1.5	15	2	MOQ. Heat resistant.
J/SCB 1/15	SBR	50	1	15	1.5	Cut lengths available.

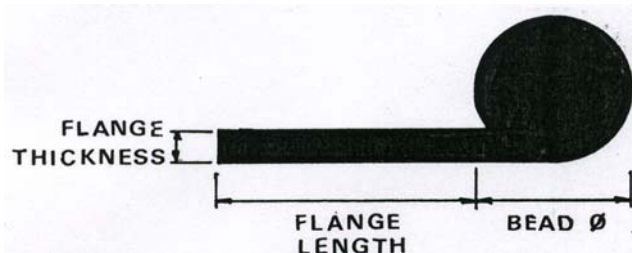
4-1-4

HOLLOW "P"



Product Code	Material	Standard Length metres	Bead Diameter MM	Flange Length MM	Flange Thickness MM	Additional Information
J/HP 6/9	SBR	50	6	9	2	Cut lengths available
J/HP 6.5/24	Natural	20	6.5	24	2	MOQ apply.
J/HP 10.5/15	SBR	50	10.5	15	1.6	Cut lengths available.
J/HP 12.5/15	SBR	50	12.5	15	2.6	Cut lengths available.
J/HP 12/30	EPDM	20	12	30	2	MOQ apply.
J/HP 14/32	Silicone	20	14	32	1.5	MOQ apply. Heat resistant.
J/HP 17.5/38	Neoprene	20	17.5	38	2.5	MOQ apply.
J/HP 17.5/32	Neoprene	20	17.5	32	2.5	MOQ apply.

SOLID "P"



FOR LARGE "P" SECTIONS
SEE GATE SEALS PAGE
4-5-5/9.

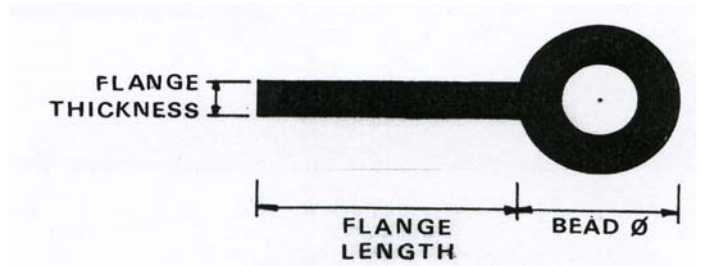
Product Code	Material	Standard Length metres	Bead Diameter MM	Flange Length MM	Flange Thickness MM	Additional Information
J/SP 4/18	SBR	50	4	18	2.4	Cut lengths available.
J/SP 6/45	Neoprene	3	6	45	3.2	MOQ 3 metres.
J/SP 9.5/22	SBR	50	9.5	22	4.5	Cut lengths available.
J/SP 25/63	Neoprene	3	25	63	5	MOQ apply.

RIDGED HOLLOW "P"



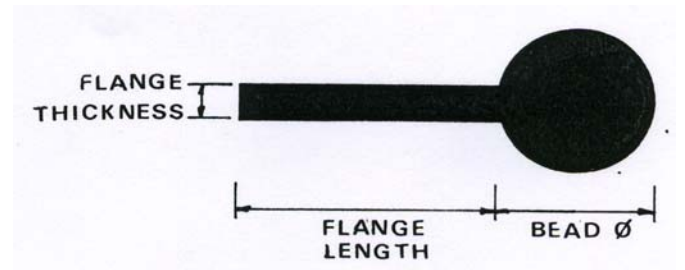
Product Code	Material	Standard Length metres	Bead Diameter MM	Flange Length MM	Flange Thickness MM	Additional Information
JRHP 12/25	Neoprene	20	12	25	5	Caravan Roof.

HOLLOW TADPOLE



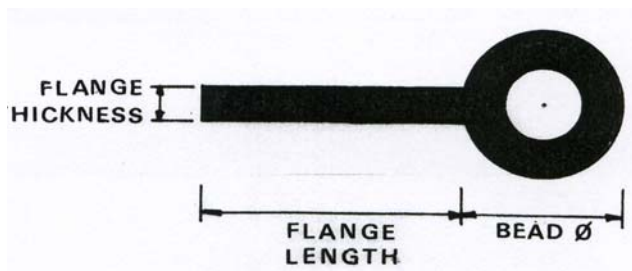
Product Code	Material	Standard Length metres	Bead Diameter MM	Flange Length MM	Flange Thickness MM	Additional Information
J/HT 5/15	Silicone	20	5	15	1.5	MOQ apply. Heat resistant.
J/HT 6.5/20	Natural	20	6.5	20	1.5	MOQ apply.
J/HT 6.5/25	SBR	50	6.5	25	1.5	Cut lengths available.
J/HT 8/13	SBR	50	8	13	2.8	Cut lengths available.
J/HT 8/17	SBR	50	8	17	1.6	Cut lengths available.
J/HT 8/14	Silicone	20	8	14	1.6	MOQ apply. White.
J/HT 9/13	Silicone	20	9	13	2	MOQ apply. White.
J/HT 12/13	Silicone	20	12	13	2	MOQ apply. White.
J/HT 12/28	SBR	50	12	28	1.6	Cut lengths available.
J/HT 12.5/19	SBR	50	12.5	19	2.5	Cut lengths available.
J/HT 20/28	SBR	50	20.5	28	4.8	MOQ apply.

SOLID TADPOLE



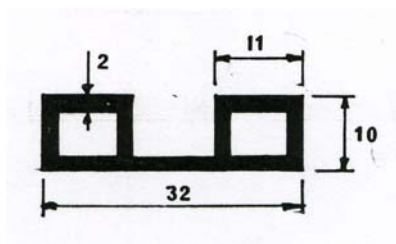
Product Code	Material	Standard Length metres	Bead Diameter MM	Flange Length MM	Flange Thickness MM	Additional Information
J/ST 5/10	Natural	20	5	10	2.3	MOQ apply.
J/ST 8/46	SBR	50	8	46	3.5	MOQ apply.
J/ST 12/40	Silicone	20	12	40	3	MOQ apply. White.

4-1-5

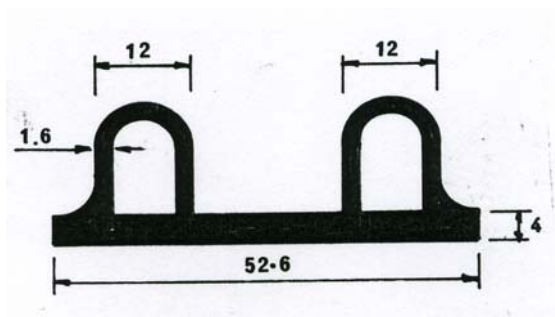


4-1-6

SMALL HOLLOW "B" SECTIONS



Product Code	Material	Standard Length metres	Additional Information.
PM882101	EPDM	20	Cut lengths available.



Product Code	Material	Standard Length metres	Additional Information.
PM51127/1	EPDM	20	MOQ apply

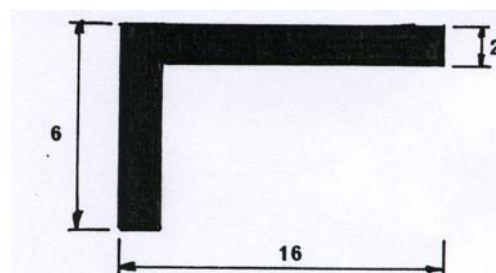
N.B. FOR LARGER "B" SECTIONS PLEASE REFER

TO GATE SEALS SECTION PAGE 4-5-1/3.

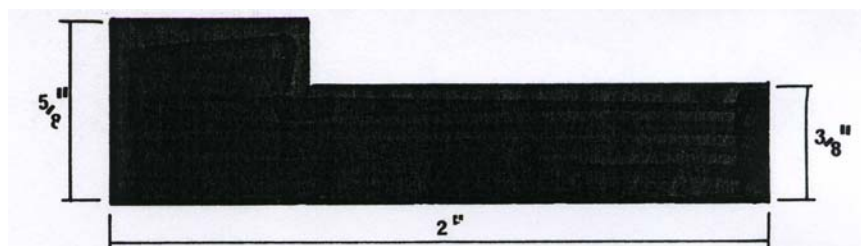
"L" SECTIONS



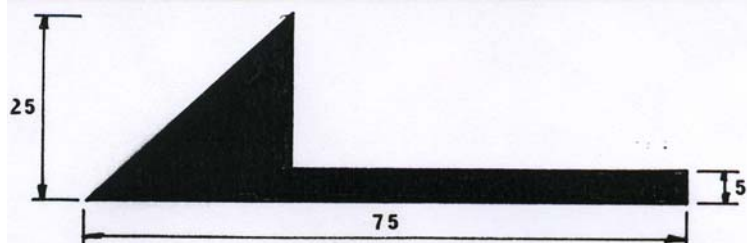
Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM 962101	Neoprene	50°/55°	15	MOQ apply.



Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM 902501	Neoprene	70°	20	MOQ apply.

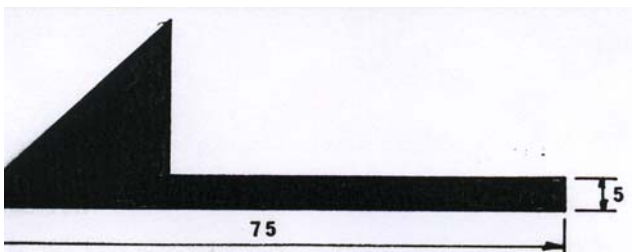
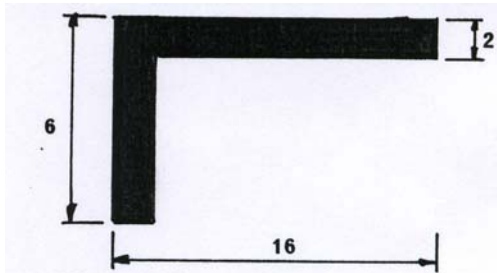


Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM 910902	Neoprene	70°	3.05	MOQ apply. Can be joined for longer lengths.



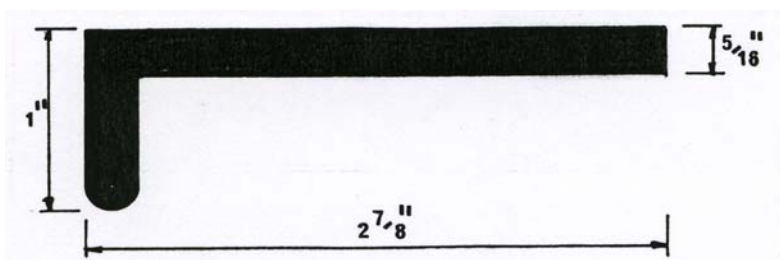
Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM892501	Neoprene	50°	3.05	MOQ apply.

4-1-7

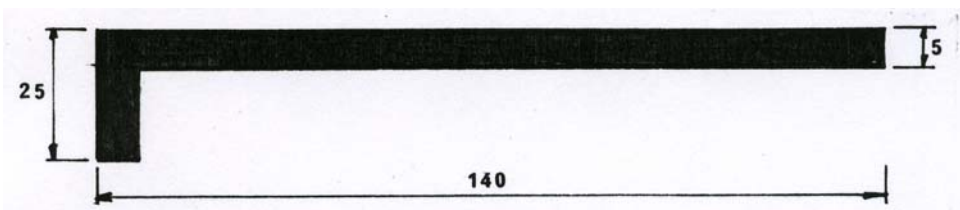


4-1-8

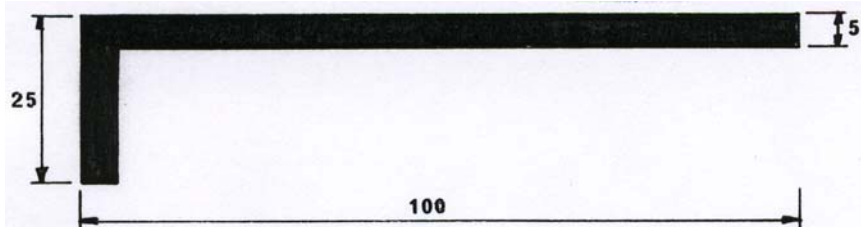
"L" SECTIONS - continued



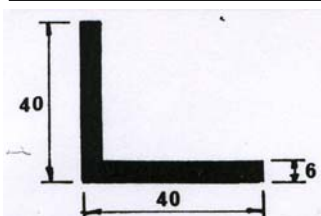
Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM910907	EPDM	70°	3.05	MOQ apply.



Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM903201	EPDM	70°	3.05	MOQ apply.



Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM 890702	Neoprene	70°	3.05	MOQ apply.



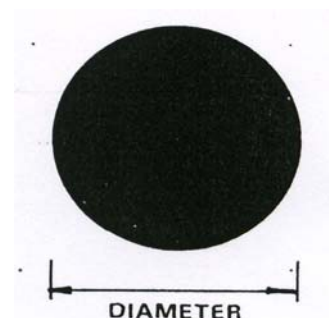
Product Code	Material	Hardness Shore "A"	Standard Length Metres	Additional Information
PM 934101	Neoprene	60°/65°	3.05	MOQ apply.

CORD & TUBE

SECTION 2

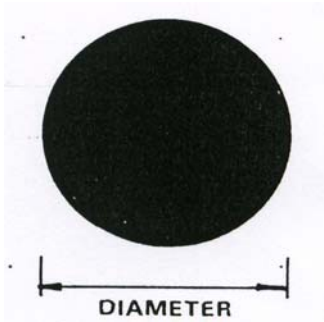
	cat	sect	pge
Solid Neoprene Cord.	4.	2.	1
Solid Nitrile Cord.	4.	2.	2
Solid Silicone Cord.	4.	2.	3
Expanded Cord. (Neoprene, Silicone & Natural)	4.	2.	4
Half Round Expanded Cord.	4.	2.	5
Expanded Rubber Gaskets.	4.	2.	6
Square and Rectangular Sponge Sections.	4.	2.	7
Neoprene Rubber Tube.	4.	2.	8
Red Natural Rubber Tube.	4.	2.	9
Translucent Silicone Tube.	4.	2.	10

SOLID NEOPRENE CORD



Product Code	Material	Diameter MM	Additional Information
JN/SC 03	Neoprene 65°	3	Cut lengths available.
JN/SC 04	Neoprene 65°	4	MOQ apply.
JN/SC 05	Neoprene 65°	5	Cut lengths available.
JN/SC 06	Neoprene 65°	6	Cut lengths available.
JN/SC 07	Neoprene 65°	7	MOQ apply.
JN/SC 08	Neoprene 65°	8	Cut lengths available.
JN/SC 09	Neoprene 65°	9	MOQ apply.
JN/SC 10	Neoprene 65°	10	Cut lengths available.
JN/SC 11	Neoprene 65°	11	MOQ apply.
JN/SC 12	Neoprene 65°	12	MOQ apply.
JN/SC 12.7	Neoprene 65°	12.7	Cut lengths available.
JN/SC 16	Neoprene 65°	16	Cut lengths available.
JN/SC 19	Neoprene 65°	19	Cut lengths available.
JN/SC 25	Neoprene 65°	25	Cut lengths available.
JN/SC 32	Neoprene 65°	32	Cut lengths available.
JN/SC 38	Neoprene 65°	38	Cut lengths available.
JN/SC 51	Neoprene 65°	51	Cut lengths available.
JN/SC 76	Neoprene 65°	76	Cut lengths available.
JN/SC 102	Neoprene 65°	102	Cut lengths available.

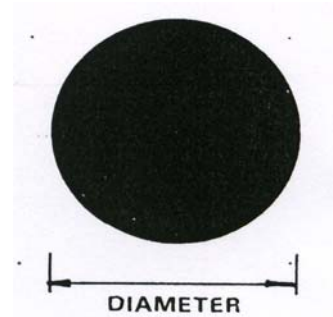
SEE TECHNICAL SECTION FOR MATERIAL GUIDE LINES.

4-2-2**SOLID NITRILE CORD**

Product Code	Material	Diameter MM	Additional Information
JNI/SC 03	Nitrile 70°	3	Cut lengths available.
JNI/SC 04	Nitrile 70°	4	MOQ apply.
JNI/SC 05	Nitrile 70°	5	Cut lengths available.
JNI/SC 06	Nitrile 70°	6	Cut lengths available.
JNI/SC 07	Nitrile 70°	7	MOQ apply.
JNI/SC 08	Nitrile 70°	8	Cut lengths available.
JNI/SC 09	Nitrile 70°	9	MOQ apply.
JNI/SC 10	Nitrile 70°	10	Cut lengths available.
JNI/SC 11	Nitrile 70°	11	MOQ apply.
JNI/SC 12	Nitrile 70°	12	MOQ apply.
JNI/SC 12.7	Nitrile 70°	12.7	MOQ apply.
JNI/SC 16	Nitrile 70°	16	MOQ apply.
JNI/SC 19	Nitrile 70°	19	MOQ apply.
JNI/SC 25	Nitrile 70°	25	MOQ apply.
JNI/SC 32	Nitrile 70°	32	MOQ apply.
JNI/SC 38	Nitrile 70°	38	MOQ apply.

SOLID SILICONE CORD

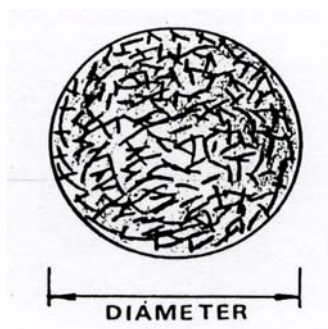
4-2-3



Product Code	Material	Diameter MM	Additional Information
JNS/SC 03	White Silicone 60°	3	Cut lengths available.
JNS/SC 04	White Silicone 60°	4	MOQ apply.
JNS/SC 05	White Silicone 60°	5	Cut lengths available.
JNS/SC 06	White Silicone 60°	6	Cut lengths available.
JNS/SC 07	White Silicone 60°	7	MOQ apply.
JNS/SC 08	White Silicone 60°	8	Cut lengths available.
JNS/SC 09	White Silicone 60°	9	MOQ apply.
JNS/SC 10	White Silicone 60°	10	Cut lengths available.
JNS/SC 11	White Silicone 60°	11	MOQ apply.
JNS/SC 12	White Silicone 60°	12	MOQ apply.
JNS/SC 12.7	White Silicone 60°	12.7	Cut lengths available.
JNS/SC 16	White Silicone 60°	16	MOQ apply.
JNS/SC 19	White Silicone 60°	19	MOQ apply.
JNS/SC 25	White Silicone 60°	25	MOQ apply.
JNS/SC 32	White Silicone 60°	32	MOQ apply.
JNS/SC 38	White Silicone 60°	38	MOQ apply.

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EXPANDED CORDS



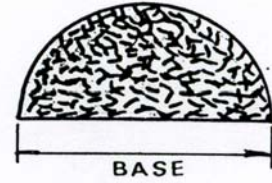
Product Code	Material	Diameter MM	Additional Information
J/ENC 03	Neoprene	3	Cut lengths available.
J/ENC 05	Neoprene	5	Cut lengths available.
J/ENC 06	Neoprene	6	Cut lengths available.
J/ENC 08	Neoprene	8	Cut lengths available.
J/ENC 10	Neoprene	10	Cut lengths available.
J/ENC 12	Neoprene	12	Cut lengths available.
J/ENC 16	Neoprene	16	Cut lengths available.
J/ENC 19	Neoprene	19	Cut lengths available.
J/ENC 25	Neoprene	25	Cut lengths available.
J/ENC 32	Neoprene	32	MOQ apply.
J/ENC 38	Neoprene	38	MOQ apply.

Product Code	Material	Diameter MM	Additional Information
J/ESC 03	Silicone	3	Small MOQ's apply.
J/ESC 05	Silicone	5	Small MOQ's apply.
J/ESC 06	Silicone	6	Small MOQ's apply.
J/ESC 08	Silicone	8	Small MOQ's apply.
J/ESC 10	Silicone	10	Small MOQ's apply.
J/ESC 12	Silicone	12	Small MOQ's apply.
J/ESC 16	Silicone	16	Small MOQ's apply.
J/ESC 19	Silicone	19	Small MOQ's apply.
J/ESC 25	Silicone	25	Small MOQ's apply.

Product Code	Material	Diameter MM	Additional Information
J/ENAC 32	Natural	32	Small MOQ's apply.
J/ENAC 38	Natural	38	Small MOQ's apply.

HALF ROUND EXPANDED CORD

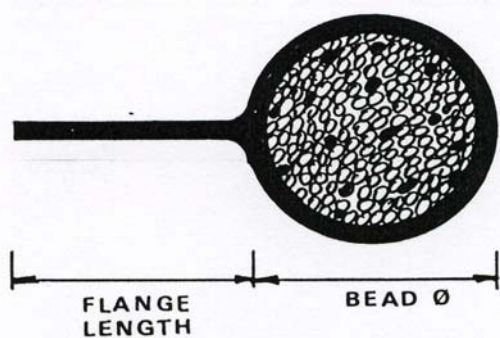
4-2-5



Product Code	Material	Base MM	Additional Information
J/HREC 05	Neoprene	5	Cut lengths available.
J/HREC 06	Neoprene	6	Cut lengths available.
J/HREC 08	Neoprene	8	Cut lengths available.
J/HREC 10	Neoprene	10	Cut lengths available.
J/HREC 13	Neoprene	13	Cut lengths available.
J/HREC 16	Neoprene	16	Cut lengths available.
J/HREC 19	Neoprene	19	Cut lengths available.
J/HREC 25	Neoprene	25	Cut lengths available.

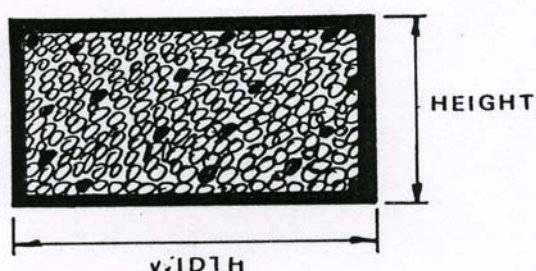
4-2-6

EXPANDED RUBBER GASKETS



TADPOLE

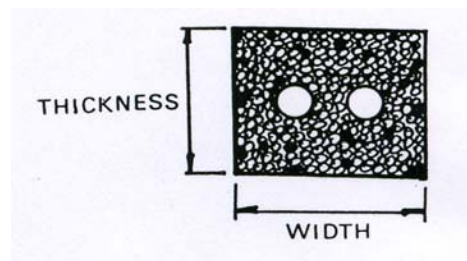
Product Code	Material	Standard Length metres	Bead Diameter MM	Flange Length MM	Additional Information
J/ERG 6/19	see	15-20	6	19	
J/ERG 9.5/19		15-20	9.5	19	CONSTRUCTION OF THIS SEAL IS:-
J/ERG 12.7/19	Additional	15-20	12.7	19	EXPANDED NEOPRENE CORD
J/ERG 16/19		15-20	16	19	WRAPPED IN RUBBERISED CLOTH.
J/ERG 19/19	Information	15-20	19	19	CUT LENGTHS AVAILABLE ON ALL
J/ERG 25/25		15-20	25	25	SECTIONS.



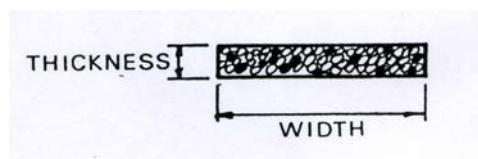
EXPANDED RECTANGULAR SILICONE

Product Code	Material	Standard Length metres	Width MM	Height MM	Additional Information
J/ERS 12/10	Silicone	10	12	10	MATERIAL IS SKINNED ON "4" SIDES.
J/ERS 19/10	Silicone	10	19	10	
J/ERS 25/10	Silicone	10	25	10	MOQ 2 METRES, AND MULTIPLES OF
J/ERS 19/12	Silicone	10	19	12	2 METRES THEREAFTER.
J/ERS 25/12	Silicone	10	25	12	HEAT RESISTANT.

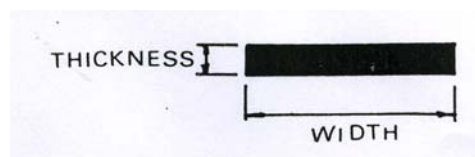
- - CLOSED CELL EXPANDED NEOPRENE - -
 - SKINNED ON 4 SIDES
 - LARGE RANGE OF SIZES
 - M.O.Q. MAY APPLY TO SOME.

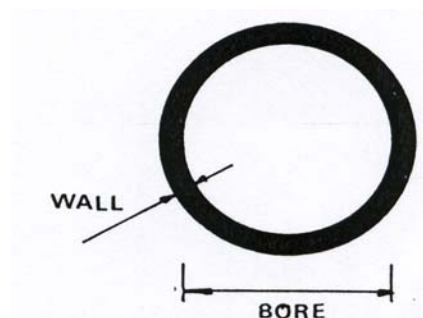


- - CLOSED CELL PVC/NITRILE - -
 - SKINNED 2 SIDES - ALL SIZES
 - PLAIN OR ADHESIVE BACKED.
 - EX STOCK IN 6 metre ROLLS.
- SEE SHEETING CATALOGUE FOR DETAILS.



- - SOLID RUBBER SECTIONS - -
 - VIRTUALLY ANY WIDTH & THICKNESS
 - AVAILABLE FROM MATERIALS, SUCH AS
 - NEOPRENE, NITRILE, NATURAL, FOOD QUALITY,
 - REDSTAR, B.S. SPECS, BUTYL, ETC., ETC..



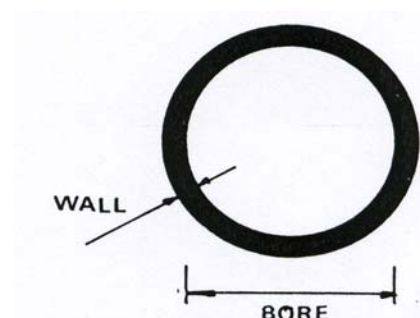


Product Code	Material	Standard length metres	Bore MM	Wall MM	Additional Information
J/NRT 3/1.5	Neoprene 60°	20	3	1.5	Cut lengths available.
J/NRT 5/1.5	Neoprene 60°	20	5	1.5	Cut lengths available.
J/NRT 6.4/1.5	Neoprene 60°	20	6.4	1.5	Cut lengths available.
J/NRT 6.4/3.0	Neoprene 60°	20	6.4	3	Cut lengths available.
J/NRT 8.0/1.5	Neoprene 60°	20	8	1.5	Cut lengths available.
J/NRT 8.0/3.0	Neoprene 60°	20	8	3	Cut lengths available.
J/NRT 9.5/1.5	Neoprene 60°	20	9.5	1.5	Cut lengths available.
J/NRT 9.5/3.0	Neoprene 60°	20	9.5	3	Cut lengths available.
J/NRT 12.5/1.5	Neoprene 60°	20	12.5	1.5	Cut lengths available.
J/NRT 12.5/3.0	Neoprene 60°	20	12.5	3	Cut lengths available.
J/NRT 16/1.5	Neoprene 60°	20	16	1.5	Cut lengths available.
J/NRT 16/3.0	Neoprene 60°	20	16	3	Cut lengths available.
J/NRT 19/3.0	Neoprene 60°	20	19	3	Cut lengths available.
J/NRT 25/3.0	Neoprene 60°	20	25	3	Cut lengths available.

"OTHER SIZES AVAILABLE TO ORDER"

RED NATURAL RUBBER TUBE

4-2-9

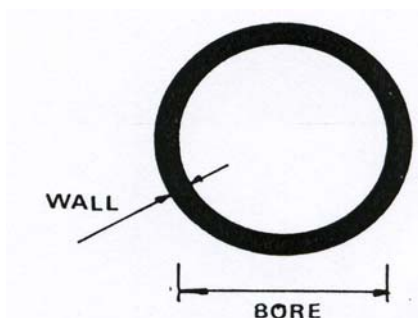


Product Code	Material	Standard length metres	Bore MM	Wall MM	Additional Information
J/NART 3/1.5	Red Natural Rubber 50°	20	3	1.5	Cut lengths available.
J/NART 5/1.5	Red Natural Rubber 50°	20	5	1.5	Cut lengths available.
J/NART 6.4/1.5	Red Natural Rubber 50°	20	6.4	1.5	Cut lengths available.
J/NART 6.4/3.0	Red Natural Rubber 50°	20	6.4	3	Cut lengths available.
J/NART 8.0/1.5	Red Natural Rubber 50°	20	8	1.5	Cut lengths available.
J/NART 8.0/3.0	Red Natural Rubber 50°	20	8	3	Cut lengths available.
J/NART 9.5/1.5	Red Natural Rubber 50°	20	9.5	1.5	Cut lengths available.
J/NART 9.5/3.0	Red Natural Rubber 50°	20	9.5	3	Cut lengths available.
J/NART 12.5/1.5	Red Natural Rubber 50°	20	12.5	1.5	Cut lengths available.
J/NART 12.5/3.0	Red Natural Rubber 50°	20	12.5	3	Cut lengths available.
J/NART 16/1.5	Red Natural Rubber 50°	20	16	1.5	Cut lengths available.
J/NART 16/3.0	Red Natural Rubber 50°	20	16	3	Cut lengths available.
J/NART 19/3.0	Red Natural Rubber 50°	20	19	3	Cut lengths available.
J/NART 25/3.0	Red Natural Rubber 50°	20	25	3	Cut lengths available.

"OTHER SIZES AVAILABLE TO ORDER"

4-2-10

TRANSLUSCENT SILICONE TUBE



Product Code	Material	Standard length metres	Bore I.D. MM	Wall MM	Additional Information
J/TST 3.2/1.6	Silicone 60°	25	3.2	1.6	
J/TST 3/3.5	Silicone 60°	25	3	3.5	
J/TST 4/2	Silicone 60°	25	4	2	HEAT RESISTANT
J/TST 4.5/1.6	Silicone 60°	25	4.5	1.6	
J/TST 5/2	Silicone 60°	25	5	2	CUT COILS AVAILABLE ON
J/TST 5/3.5	Silicone 60°	25	5	3.5	
J/TST 6/2	Silicone 60°	25	6	2	ALL SIZES.
J/TST 6.4/1.6	Silicone 60°	25	6.4	1.6	
J/TST 6.4/3.2	Silicone 60°	25	6.4	3.2	
J/TST 7.9/1.6	Silicone 60°	25	7.9	1.6	F.D.A and WRC APPROVED.
J/TST 7.9/3.2	Silicone 60°	25	7.9	3.2	
J/TST 9.5/1.6	Silicone 60°	25	9.5	1.6	
J/TST 9.5/3.2	Silicone 60°	25	9.5	3.2	
J/TST 10/2	Silicone 60°	25	10	2	
J/TST 12.7/1.6	Silicone 60°	25	12.7	1.6	
J/TST 12.7/3.2	Silicone 60°	25	12.7	3.2	
J/TST 16/3.2	Silicone 60°	25	16	3.2	
J/TST 19.1/3.2	Silicone 60°	25	19.1	3.2	
J/TST 25.4/3.2	Silicone 60°	25	25.4	3.2	

"OTHER SIZES AVAILABLE TO ORDER"

STANDARD FENDER

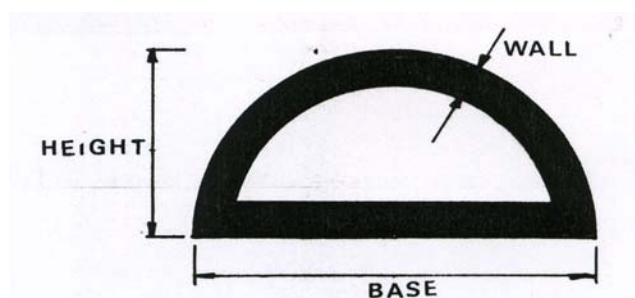
SECTION 3

	cat	sect	pge
"D" Hollow Black.	4.	3.	1
"D" Hollow White.	4.	3.	1
Delta "D" Hollow Black.	4.	3.	2
Straight "D" Hollow Black.	4.	3.	2
Tall "D" Hollow Black.	4.	3.	3
Tall "D" Hollow White.	4.	3.	3
Half Pear Hollow Black.	4.	3.	3
"D" Hollow Black Toe Rail.	4.	3.	4
"D" Solid Black Toe Rail.	4.	3.	4
"D" Solid Black.	4.	3.	4
Winged "D" Hollow Black.	4.	3.	5
Winged "D" Hollow Black.	4.	3.	5
Winged Cylindrical Hollow Black.	4.	3.	5
Hollow Wing Black.	4.	3.	6
Solid Wing Black.	4.	3.	6
Cylindrical Hollow Black.	4.	3.	7
Rectangular and Square Solid Black.	4.	3.	7
Hollow Square and Rectangular.	4.	3.	8
Key Hole.	4.	3.	8
"U" Channel Black and White.	4.	3.	9
Fender Fitting Instructions.	4.	3.	10
Energy Absorption and Load Deflection Curves for Hollow Cylindrical Fenders.	4.	3.	11
Energy Absorption and Load Deflection Curves for Hollow "D" Fenders.	4.	3.	12

STANDARD FENDERS

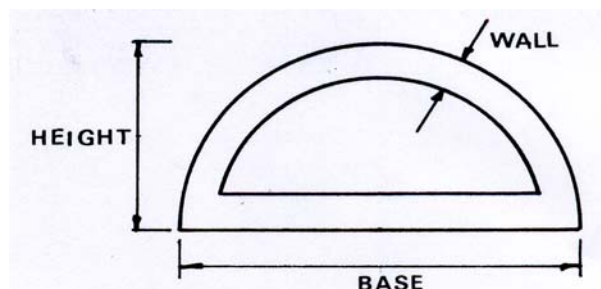
4-3-1

"D" HOLLOW BLACK



Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
DHB 22/15	EPDM	20	7/8"	5/8"	1/8"	0.238	Cut lengths available.
DHB 32/22	EPDM	20	1.1/4"	7/8"	1/4"	0.771	Cut lengths available.
DHB 38/25	EPDM	20	1.1/2"	1"	1/4"	0.750	Cut lengths available.
DHB 40/22	EPDM	15	40mm	22mm	3mm	0.565	MOQ apply.
DHB 47/30.6	EPDM	15	1.7/8"	1.3/16"	1/4"	1.050	Cut lengths available.
DHB 47/30.9	EPDM	15	1.7/8"	1.3/16"	3/8"	1.200	Cut lengths available.
DHB 60/35	EPDM	15	2.3/8"	1.3/8"	3/8"	1.530	Cut lengths available.
DHB 63/38	EPDM	3.05	2.1/2"	1.1/2"	1/2"	2.150	MOQ apply.
DHB 75/47	EPDM	3.05	3"	1.7/8"	7/16"	2.390	MOQ 1 length.
DHB 83/63	EPDM	3.05	3.5/16"	2.1/2"	5/8"	4.100	MOQ 1 length.
DHB 88/67	EPDM	3.05	3.1/2"	2.3/4"	1/2"	4.670	MOQ 1 length.
DHB 142/95	EPDM	3.05	142mm	95mm	22mm	5.350	MOQ apply.

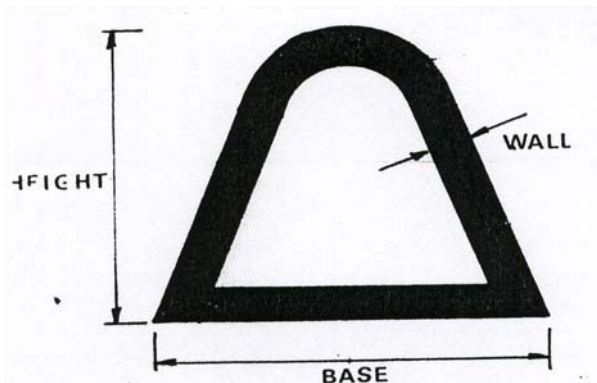
"D" HOLLOW WHITE



Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
DHW 22/15	EPDM	20	7/8"	5/8"	1/8"	0.320	Cut lengths available.
DHW 32/22	EPDM	20	1.1/4"	7/8"	1/4"	0.960	Cut lengths available.
DHW 38/25	EPDM	20	1.1/2"	1"	1/4"	1.140	Cut lengths available.
DHW 47/30	EPDM	15	1.7/8"	1.3/16"	3/8"	2.003	Cut lengths available.
DHW 75/47	EPDM	3.05	3"	1.7/8"	7/16"	3.830	MOQ 1 length.
DHW 80/50	EPDM	3.05	80mm	50mm	15mm	5.950	MOQ apply.
DHW 89/63	EPDM	3.05	3.1/2"	2.1/2"	1/2"	5.640	MOQ 1 length.

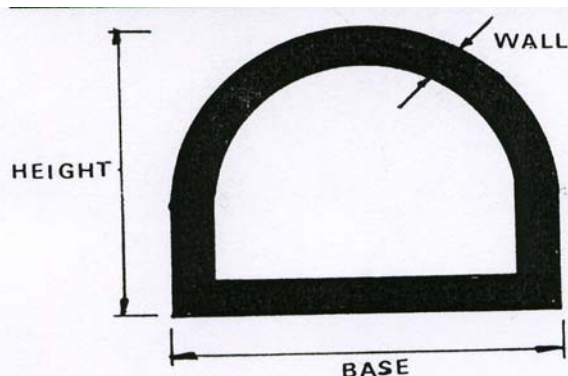
4-3-2

STANDARD FENDERS



DELTA "D" HOLLOW BLACK

Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
DDHB 82/63	EPDM	3.05	3.1/4"	2.1/2"	5/8"	3.10	MOQ apply.
DDHB 100/81	EPDM	3.05	4"	3.1/4"	1/2"	3.95	
DDHB 100/81PC	EPDM	3.05x90°	4"	3.1/4"	1/2"	3.95	MOQ apply.Precurve
DDHB 110/90	EPDM	3.05	110mm	90mm	1/2"typ	6.04	Old style M4. MOQ .
DDHB 114/94	EPDM	3.05	4.1/2"	3.3/4"	3/4"typ	6.88	M4.
DDHB 114/94PC	EPDM	3.05x90°	4.1/2"	3.3/4"	3/4"typ	6.88	M4 Precurve.
DDHB 125/92	EPDM	3.05	125mm	92mm	19mm	7.30	MOQ apply.



STRAIGHT "D" HOLLOW BLACK

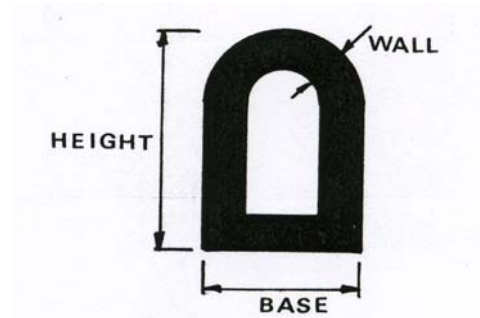
Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
SDHB 50/32	EPDM	15	50mm	32mm	8mm	2.10	MOQ apply.
SDHB 76/76	EPDM	3.05	76mm	76mm	20mm	5.10	MOQ apply.
SDHB 88/63	EPDM	3.05	3.1/2"	2.1/2"	1/2"	5.03	MOQ 1 length.
SDHB 88/63	EPDM	3.05	3.1/2"	2.1/2"	1/2"	5.03	Precurve.MOQ 1length.
SDHB 100/100	EPDM	3.05	100mm	100mm	25mm	12.80	MOQ 1 length.
SDHB 102/88	EPDM	3.05	4"	3.1/2"	3/4"	12.00	MOQ apply.
SDHB 102/102	EPDM	3.05	4"	4"	5/8"	8.31	MOQ 1 length.
SDHB 121/126	EPDM	3.05	4.3/4"	5"	1.1/4"		MOQ apply.
SDHB 125/125	EPDM	3.05	125mm	125mm	25mm		MOQ apply.
SDHB 127/114	EPDM	3.05	127mm	114mm	25mm		MOQ apply.
SDHB 150/150	EPDM	3.05	150mm	150mm	35typ	28.80	MOQ apply.
SDHB 200/150	EPDM	3.05	200mm	150mm	35typ	31.30	MOQ apply.

NEW DIES AVAILABLE AT LOW COST

STANDARD FENDERS

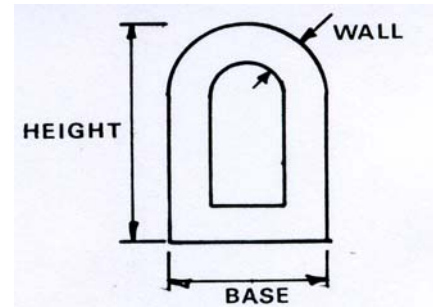
4-3-3

TALL "D" HOLLOW BLACK



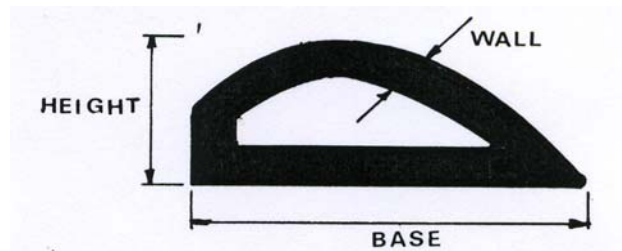
Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
TDHB 60/75	EPDM	3.05	60mm	75mm	12mm	4.70	Full length only.

TALL "D" HOLLOW WHITE



Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
TDHW 60/75	EPDM	3.05	60mm	75mm	12mm	5.80	Full length only.

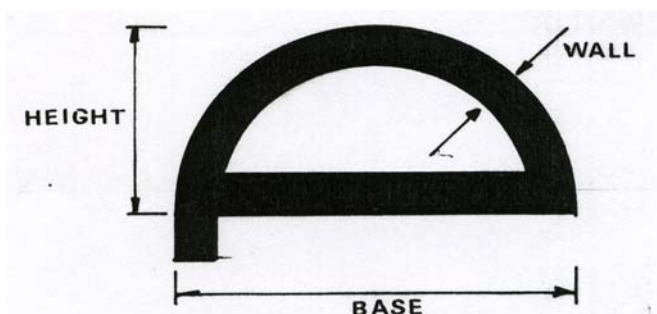
HALF PEAR HOLLOW BLACK



Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
HPHB 110/56	EPDM	3.05	110mm	56mm	12mm	5.00	Full length only.

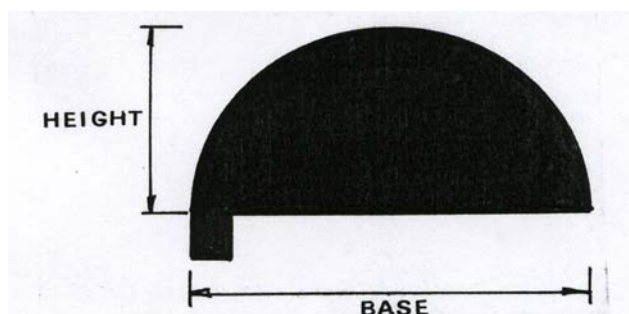
4-3-4

STANDARD FENDERS



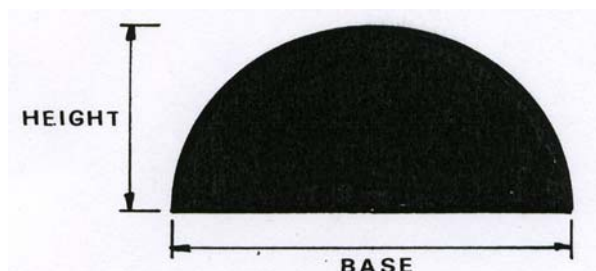
"D" HOLLOW BLACK TOE RAIL

Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
DHB 47/30TR	EPDM	25	47mm	30mm	10mm	1.30	Cut lengths available.



"D" SOLID BLACK TOE RAIL

Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
DSB 50/33TR	EPDM	15	50mm	33mm	N/A	2.23	Cut lengths available.



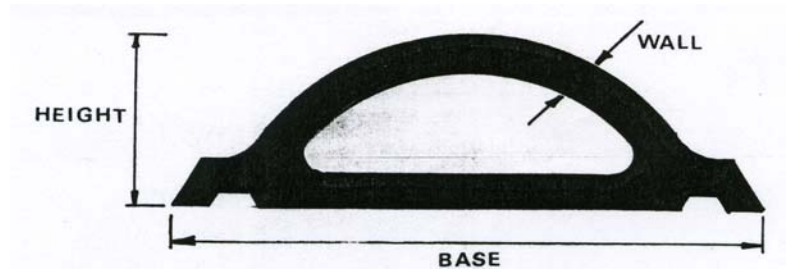
"D" SOLID BLACK

Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
DSB 38/25	EPDM	15	38mm	25mm	N/A	1.76	Full coils only.
DSB 47/30	EPDM	15	47mm	30mm	N/A	1.90	Cut lengths available.
DSB 60/35	EPDM	15	60mm	35mm	N/A	2.60	Full coils only.
DSB 88/67	EPDM	3.05	88mm	67mm	N/A	8.20	Full length only.

STANDARD FENDERS

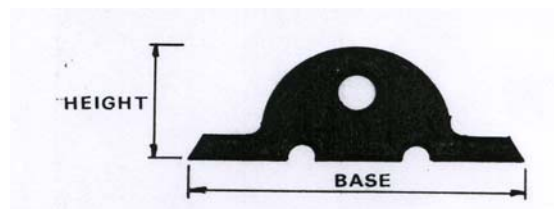
4-3-5

WINGED "D" HOLLOW BLACK



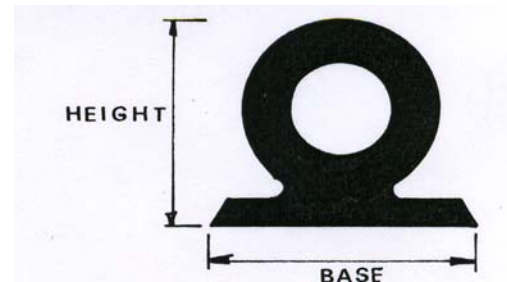
Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
WDHB 163/50E	EPDM	3.05	163mm	50mm	12mm		Full lengths only.
WDHB 163/50	SBR	3.05	163mm	50mm	12mm		Full lengths only.

WINGED "D" HOLLOW BLACK



Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
WDHB 160/53	SBR	3.05	160mm	53mm	N/A		Full lengths only.

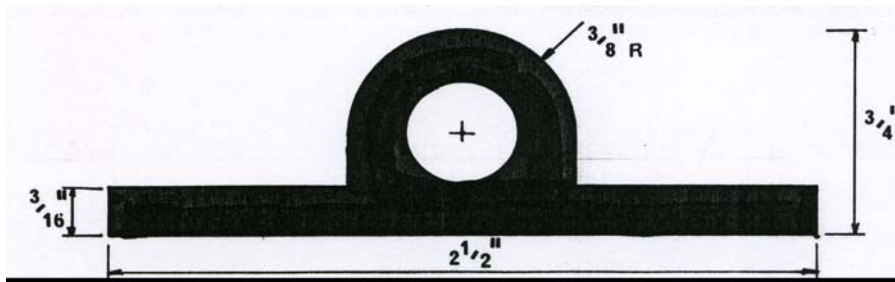
WINGED CYLINDRICAL HOLLOW BLACK



Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
WCHB 43/38	EPDM	15	43mm	38mm	12mm	1.10	Full coils only.

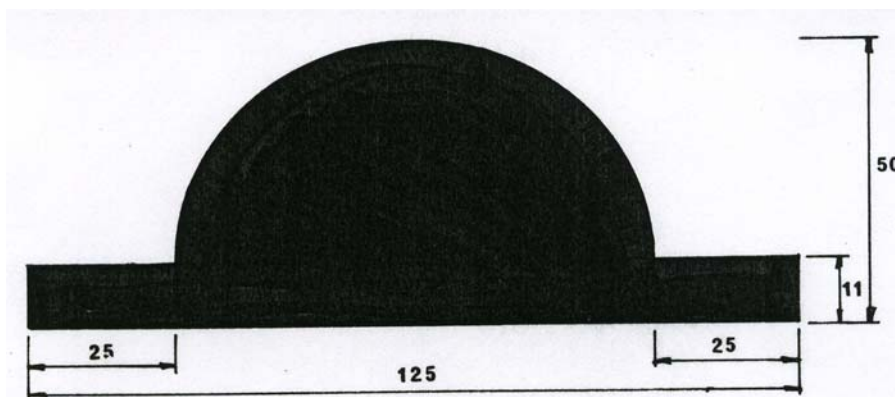
4-3-6

STANDARD FENDERS



HOLLOW WING BLACK

Product Code	Material	Standard Length metres	Base	Height	Wall	Kg/Mtr	Additional Information
HWB 63/19	EPDM	3.05	AS DIMENSIONS				Full lengths only.



SOLID WING BLACK

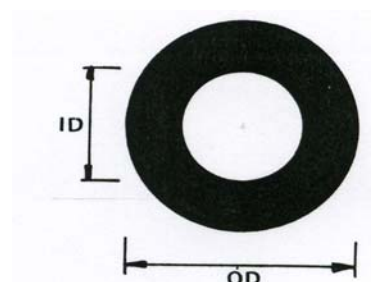
Product Code	Material	Standard Length metres	Base	Height	Wall	Weight Kg/Mtr	Additional Information
SWB 125/50	EPDM	3.05	AS DIMENSIONS				Full lengths only.

FOR ADDITIONAL PROFILES SEE GATE SEAL SECTION

STANDARD FENDERS

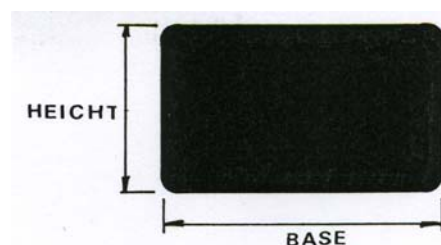
4-3-7

CYLINDRICAL HOLLOW BLACK



Product Code	Material	Standard Length metres	O.D. MM	I.D. MM	Weight Kg/Mtr	Additional Information
CHB 100/50	EPDM	3.05	100	50	8.050	
CHB 100/28	EPDM	3.05	100	28	9.880	
CHB 125/63	SBR	3.05	125	63	12.570	ALL AVAILABLE IN
CHB 125/63	SBR	3.05	125	63	12.570	
CHB 152/76	SBR	3.05	152	76		FULL LENGTHS
CHB 178/76	SBR	3.05	178	76	details	
CHB 203/89	SBR	3.05	203	89		ONLY
CHB 254/127	SBR	3.05	254	127	on	
CHB 305/152	SBR	3.05	305	152		
CHB 400/200	SBR	3.05	400	200	request	
CHB 500/250	SBR	3.05	500	250		
CHB 600/300	SBR	3.05	600	300		
CHB 800/400	SBR	3.05	800	400		
CHB 1000/500	SBR	3.05	1000	500		
CHB 1200/600	SBR	3.05	1200	600		

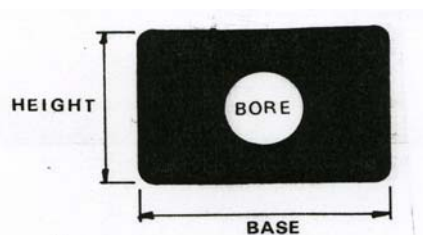
RECTANGULAR SOLID BLACK & SQUARE SOLID BLACK



Product Code	Material	Standard Length metres	Base	Height	Weight Kg/Mtr	Additional Information
SSB 102/102		3.05	102	102		
SSB 127/127	SBR	3.05	127	127		
SSB 152/152		3.05	152	152		
SSB 203/203	OR	3.05	203	203		ALL AVAILABLE IN
SSB 250/250		3.05	250	250		
SSB 300/300	EPDM	3.05	300	300		FULL LENGTHS
RSB 229/76		3.05	229	76		
RSB 152/102		3.05	152	102		ONLY
RSB 203/152		3.05	203	152		
RSB 229/152		3.05	229	152		

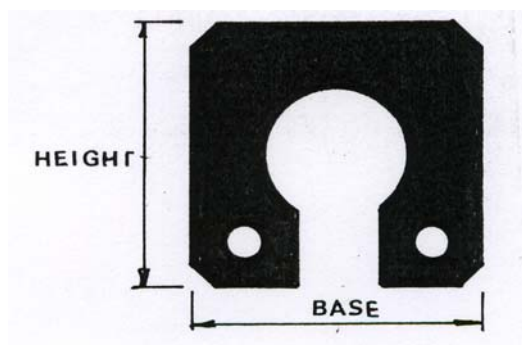
4-3-8

STANDARD FENDERS



HOLLOW SQUARE / RECTANGULAR

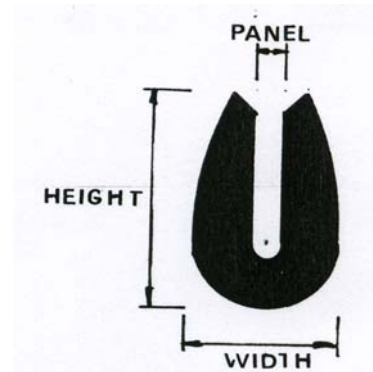
Product Code	Material	Standard Length metres	Base MM	Height MM	Bore MM	Additional Information
HS 102/102		3.05	102	102	50	
HS 127/127		3.05	127	127	50	
HS 152/152	SBR	3.05	152	152	50	ALL AVAILABLE IN
HS 203/203		3.05	203	203	100	
HR 152/102	OR	3.05	152	102	38	FULL LENGTHS
HR 125/127		3.05	152	127	38	
HR 203/102	EPDM	3.05	203	102	38	ONLY
HR 203/127		3.05	203	127	38	
HR 250/152		3.05	250	152	50	



KEY HOLE

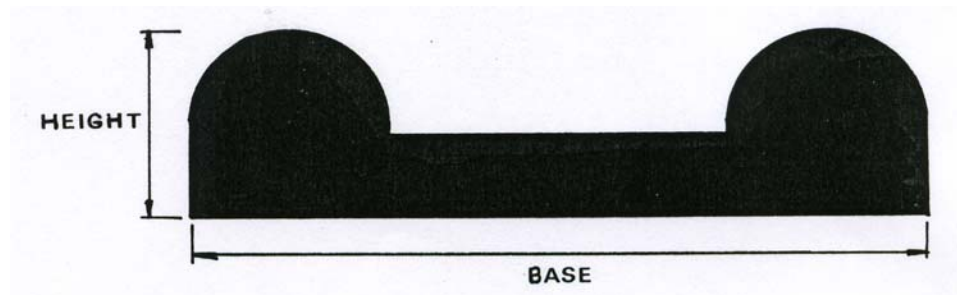
Product Code	Material	Standard Length metres	Base MM	Height MM	Bore MM	Additional Information
KH 305/305	SBR	3.05	305	305	140	Full length only.
						Dimensions on request.

"U" CHANNEL BLACK / WHITE
(Commonly used as dinghy fendering)



Product Code	Material	Standard Length metres	Width MM	Height MM	Panel MM	Additional Information
UB 8	EPDM	20	19	32	8	Cut lengths available. Black.
UB 10	EPDM	20	25	38	10	Cut lengths available. Black.
UB 12	EPDM	20	32	42	12	Cut lengths available. Black.
UW 12	EPDM	20	32	42	12	Cut lengths available. White.

**N.B. - THIS RUBBER FENDERING IS FAR MORE FLEXIBLE THAN ITS PVC COUNTERPART
- EVEN IN COLD WEATHER -**



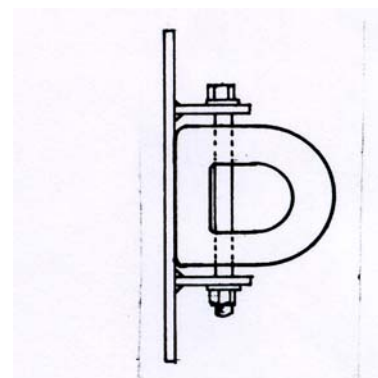
FOR "B" PROFILED FENDERING SEE SELECTION UNDER GATE SEALS.

D Shaped Fenders**Method A**

Metal bars should be fillet welded to form angle pieces to hull on each side of fender, as shown. The distance between the bars should be 12.5mm or more greater than the nominal base dimension of the fender to be installed. The metal bars should not project more than half the nominal fender projection dimension from the hull.

Drill through metal and fender so that the bolt shank will lie above the base of the fender as shown. A steel strip may be placed in the bore of the fender to lie underneath the bolt shank.

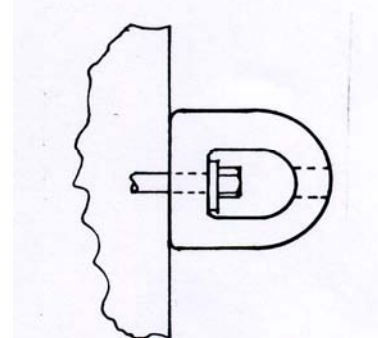
Galvanised or non-ferrous components should be used.

**Method B**

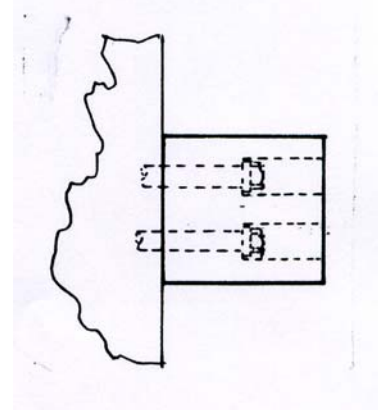
A flat metal strip as wide as possible is inserted through the bore of the fender. Drill through fender and metal strip at eighteen inch centres (maximum) for bolts, and twelve inch centres (maximum) for screws. It will be necessary to enlarge the top hole to allow the bolt head to pass through it.

Metal strips should not terminate at the end on one fender but should extend far enough into the next fender to be anchored by at least one bolt.

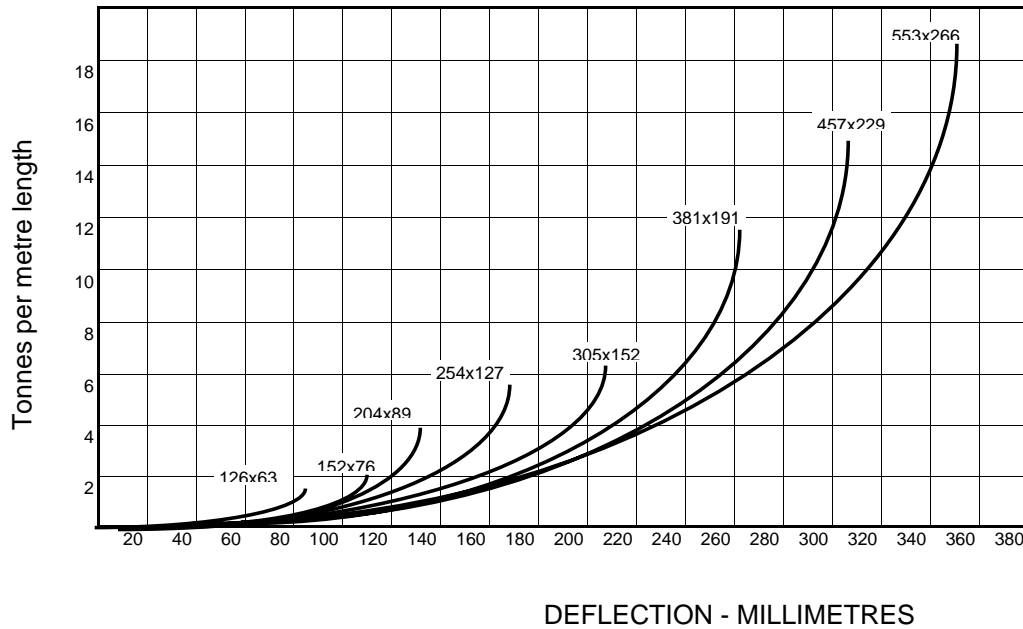
Galvanised or non-ferrous components should be used.

**Solid Rectangular Fenders**

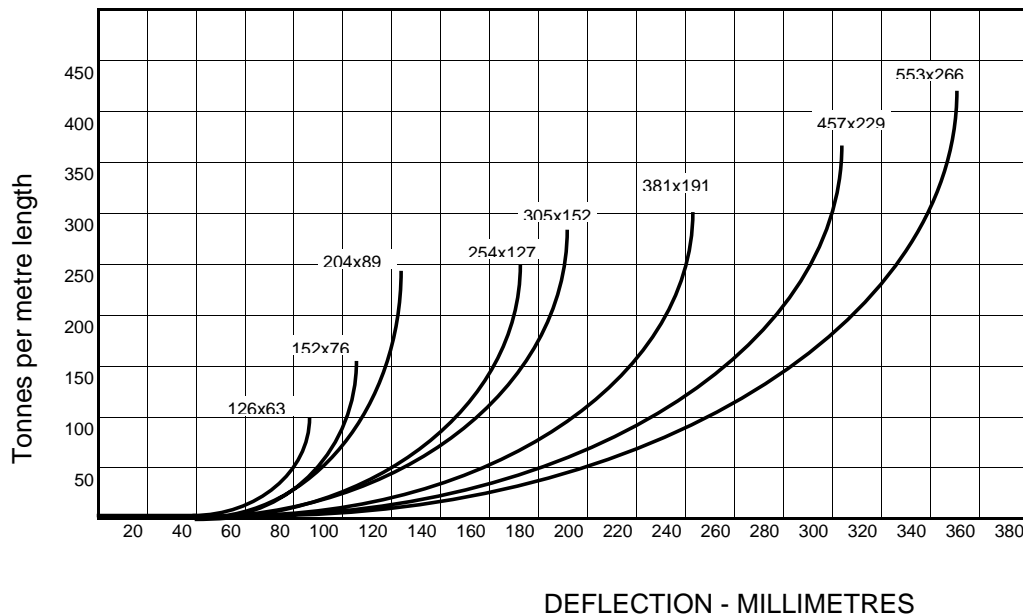
This type of fender may be secured as in Method "A" above or, alternatively, they may be drilled at regular intervals and countersunk to approximately half their depth as shown. The holes should be staggered and up to eighteen inches apart (maximum) depending on the particular application.



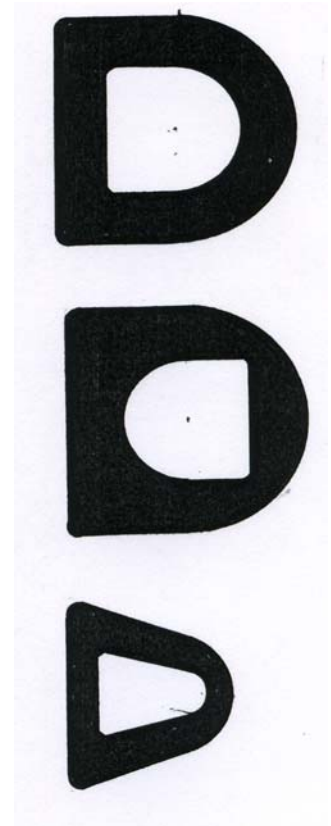
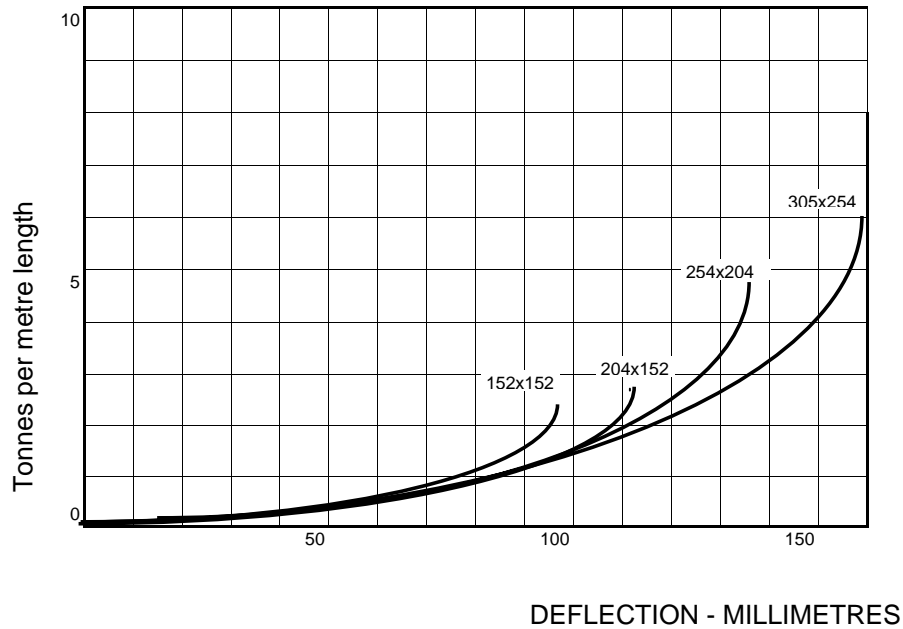
Energy Absorption Curves



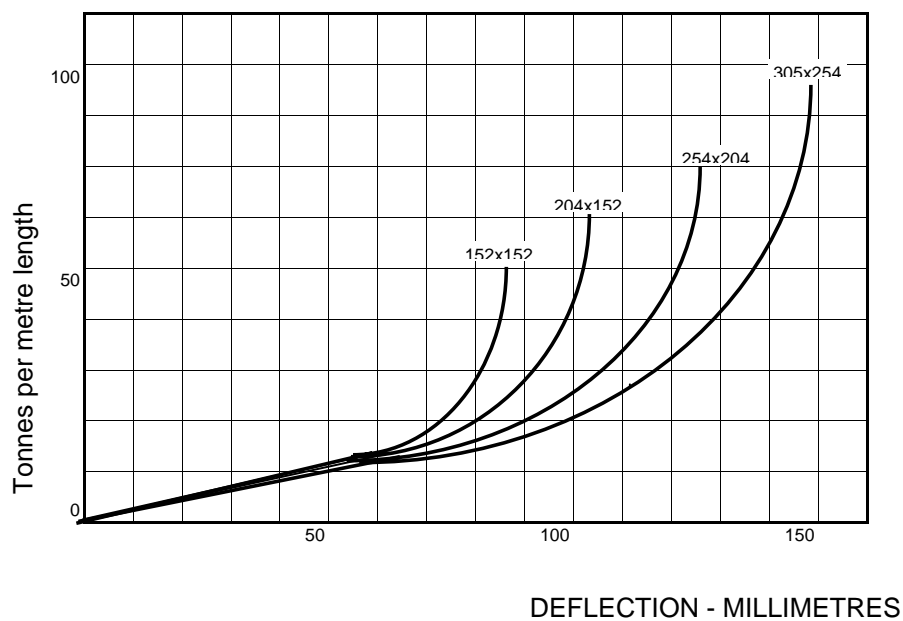
Load Deflection Curves



Energy Absorption Curves



Load Deflection Curves



"SPECIALS"

SECTION 4

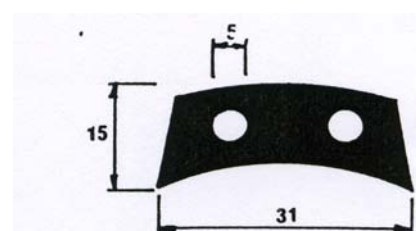
	cat	sect	pge
Miscellaneous Extrusions in Various Materials, Sections and Sizes.	4.	4.	1-8

**NEW SECTIONS AVAILABLE TO YOUR DESIGNS AT
MINIMAL COST.**

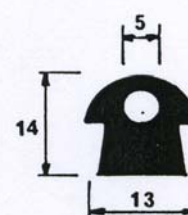
"SPECIALS"

4-4-1

Product Code	Material	Standard Length Metres	Additional Information
PM 861504	Neoprene 50°/55°	25	Black Hatch Seal. Full coils only.



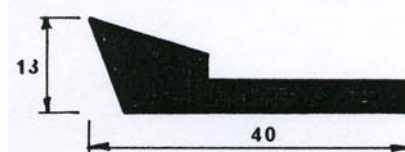
Product Code	Material	Standard Length Metres	Additional Information
PM 51014	Neoprene 60°	25	Special Door Seal. Full coils only.



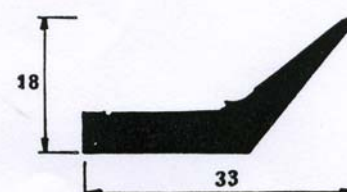
Product Code	Material	Standard Length Metres	Additional Information
PM 51105	Natural 65°	25	White Port Light Seal. Part lengths available.



Product Code	Material	Standard Length Metres	Additional Information
PM 882906	EPDM 65°	25	Bridge Window Seal. Full coils only.

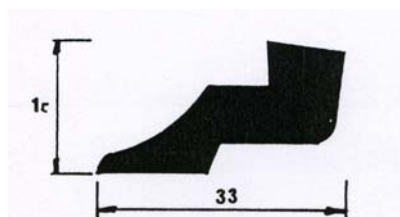


Product Code	Material	Standard Length Metres	Additional Information
PM 50902	EPDM 65°	25	Full coils only.

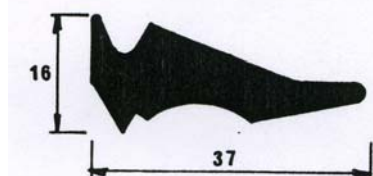


4-4-2

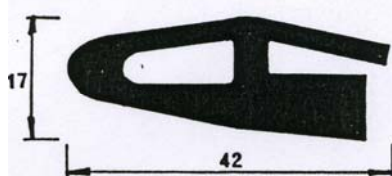
"SPECIALS"



Product Code	Material	Standard Length Metres	Additional Information
PM 865002	Neoprene 50°/55°	15	Bridge Window Seal
			Full coils only.



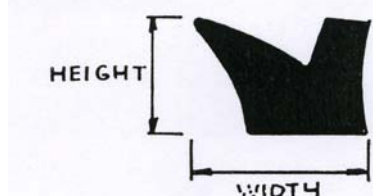
Product Code	Material	Standard Length Metres	Additional Information
PM 895201	EPDM 65°	15	Bridge Window Seal.
			Full coils only.



Product Code	Material	Standard Length Metres	Additional Information
PM860804	EPDM 60°	20	White "Spearfish".
			Cut lengths available.



Product Code	Material	Standard Length Metres	Additional Information
PM51106	EPDM 60°	3.05	Morris Traveller
			Roof Section.



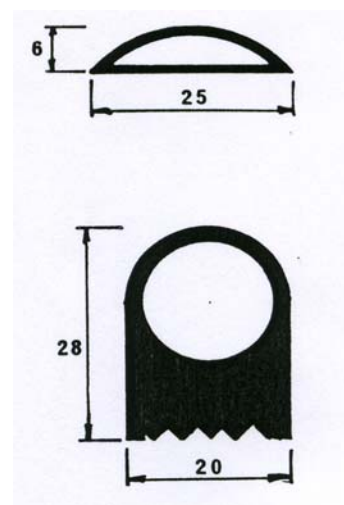
Product Code	Material	Standard Length Metres	Width MM	Height MM
PM 903903	Neoprene 65°	15	23	16
PM 864501	Neoprene 65°	25	30	25

*** OTHER SIZES & MATERIALS AVAILABLE IN THIS DESIGN - PLEASE ENQUIRE**

"SPECIALS"

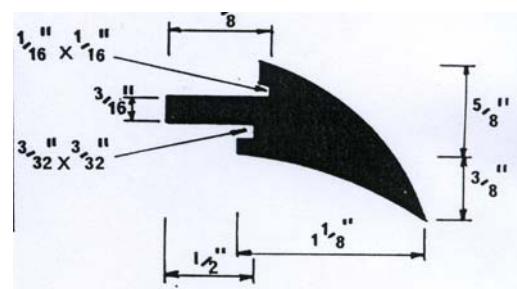
4-4-3

Product Code	Material	Standard Length Metres	Additional Information
PM 883301	Silicone 60°	20	Heat resistant seal. Full coils only.

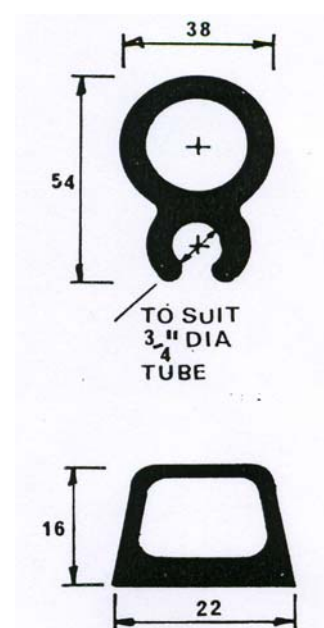


Product Code	Material	Standard Length Metres	Additional Information
PM 911505	Natural 55°	15	Cut coils available.

Product Code	Material	Standard Length Metres	Additional Information
PM 943501	EPDM 60°	3.5	MOQ apply.



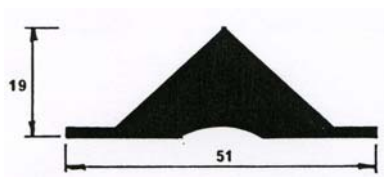
Product Code	Material	Standard Length Metres	Additional Information
PM 890803	Neoprene 65°	15	Bumper Section. Full coils only.



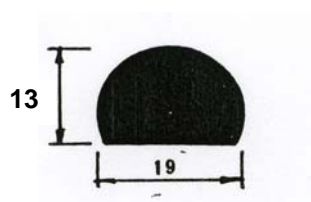
Product Code	Material	Standard Length Metres	Additional Information
PM 910402	Neoprene C60	15	Full coils only. British Spec.D section.

4-4-4

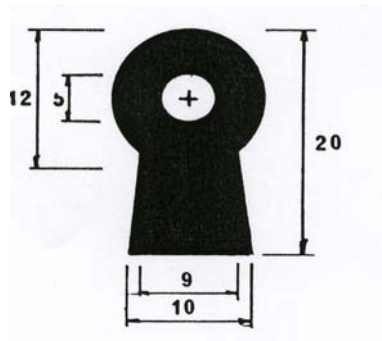
"SPECIALS



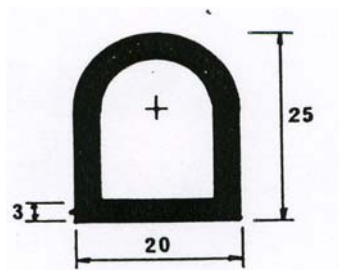
Product Code	Material	Standard Length Metres	Additional Information
PM 862802	EPDM 60°	15	"Skid Sction" Full coils only.



Product Code	Material	Standard Length Metres	Additional Information
PM 863902	Neoprene 50°	20	Full coils only.



Product Code	Material	Standard Length Metres	Additional Information
PM 921707	EPDM 60°	25	Full coils only.

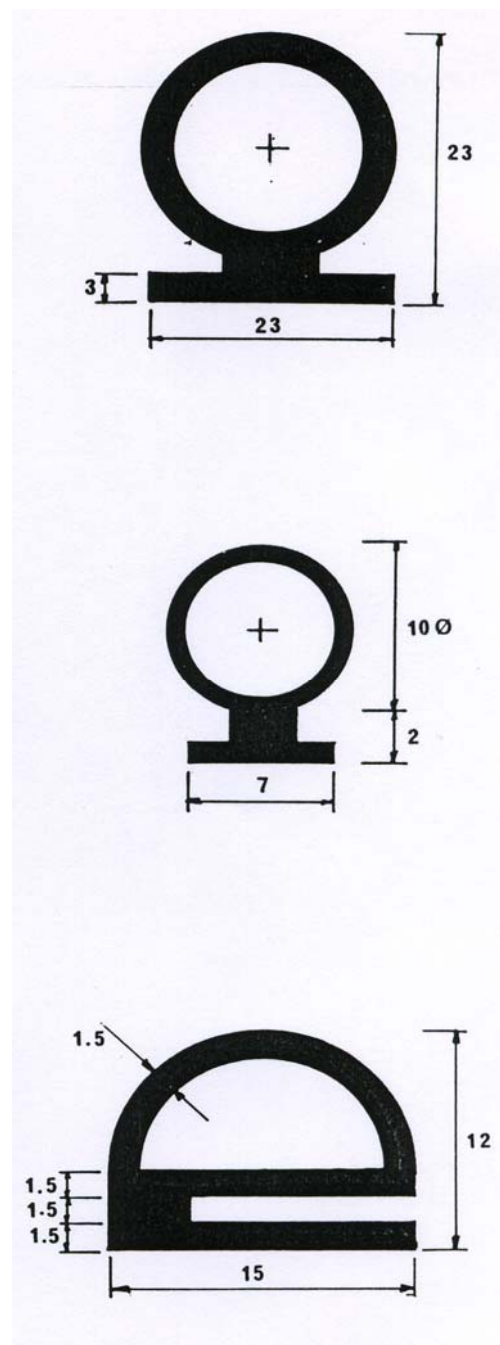


Product Code	Material	Standard Length Metres	Additional Information
PM 950202	Silicone 60°	20	Heat/ozone resistant. Full coils only

"SPECIALS"

4-4-5

Product Code	Material	Standard Length Metres	Additional Information
PM 943101	EPDM 60°	3	Straight lengths only.



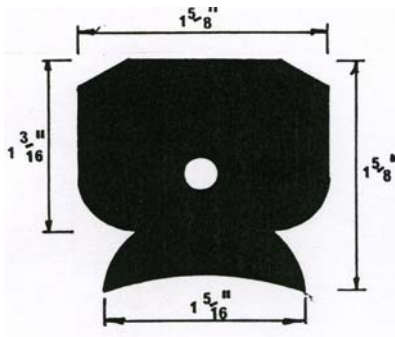
Product Code	Material	Standard Length Metres	Additional Information
PM 941102	Neoprene 60°	25	Full coils only.

Product Code	Material	Standard Length Metres	Additional Information
PM 940702	Neoprene BS2752 C60	20	Full coils only

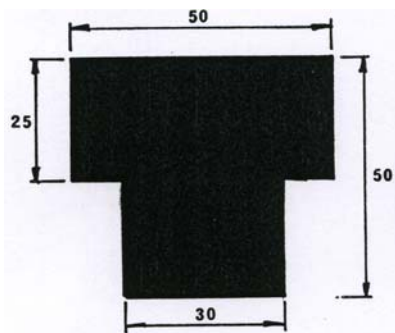
NEW DIES CREATED AT MINIMUM COST.

4-4-6

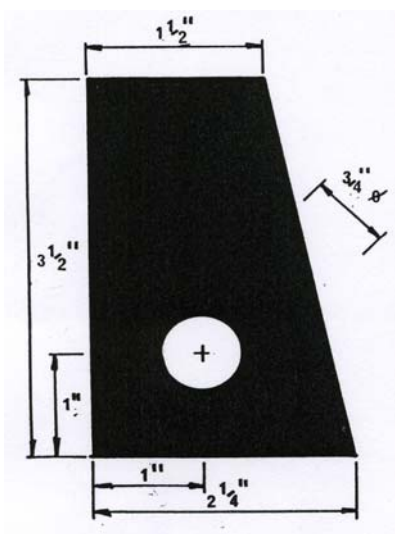
"SPECIALS



Product Code	Material	Standard Length Metres	Additional Information
PM 861510	Nitrile 65°	6	Oil resistant. In stock. Full coils only.



Product Code	Material	Standard Length Metres	Additional Information
PM 900101	Nitrile 65°	6	Oil resistant. Full lengths only.

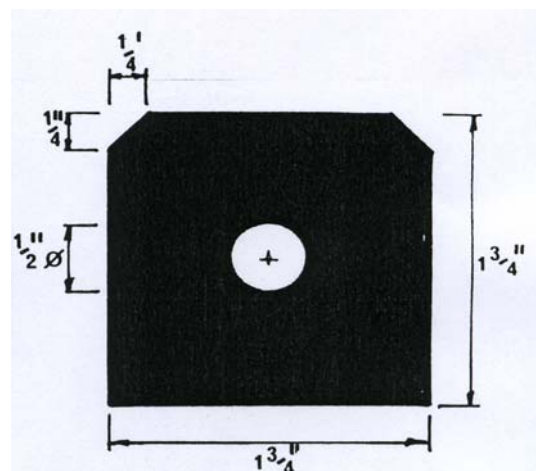


Product Code	Material	Standard Length Metres	Additional Information
PM 874102	Neoprene 60°	3.05	Full lengths only.

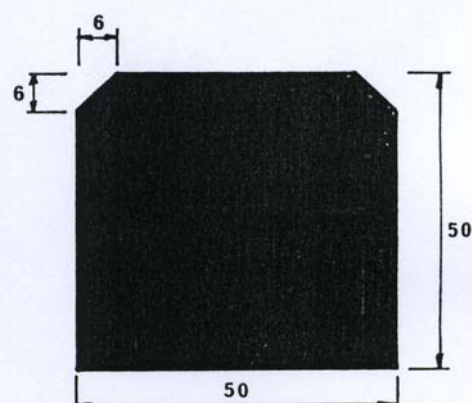
"SPECIALS"

4-4-7

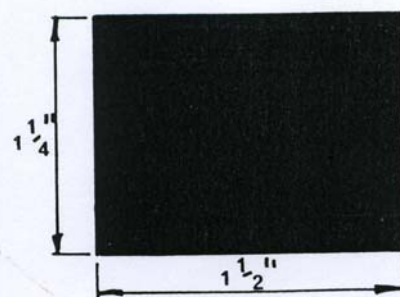
Product Code	Material	Standard Length Metres	Additional Information
PM 874001	Neoprene 65°	6	Full coils only.

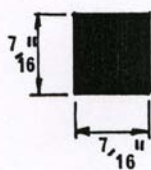


Product Code	Material	Standard Length Metres	Additional Information
PM 872202	Nitrile 65°	6	Oil resistant. Full coils only.

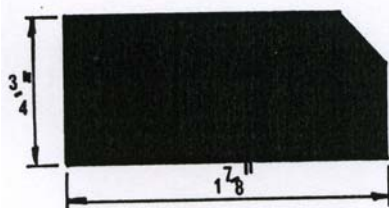


Product Code	Material	Standard Length Metres	Additional Information
PM 961806	EPDM 65°	3	MOQ applies.

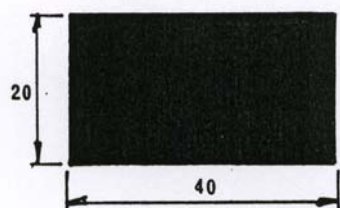




Product Code	Material	Standard Length Metres	Additional Information
PM 961802	Neoprene 60°	15	No MOQ.

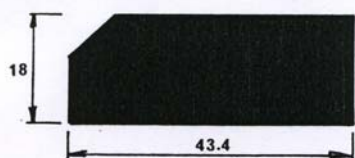


Product Code	Material	Standard Length Metres	Additional Information
PM 961804	Neoprene 50°	10	Soft Hatch Seal. MOQ apply.



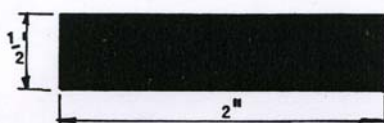
Product Code	Material	Standard Length Metres	Additional Information
PM 961803	Neoprene 55°	10	MOQ. Soft seal.

RECTANGULAR SECTIONS CAN BE CUT FROM STRIP



Product Code	Material	Standard Length Metres	Additional Information
PM 961805	Neoprene 50°	10	Soft seal. MOQ apply.

PLEASE ASK FOR DETAILS



Product Code	Material	Standard Length Metres	Additional Information
PM 861606	Nitrile 70°	7	White. Ex Stock.

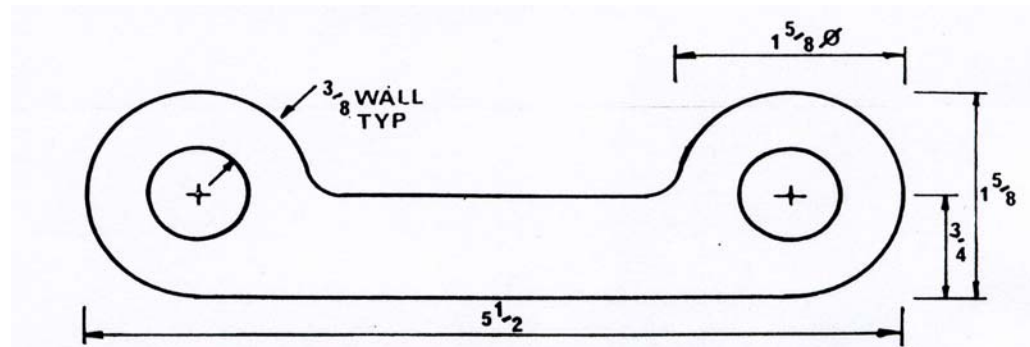
DOCK & LOCK GATE SEAL SECTION

SECTION 5

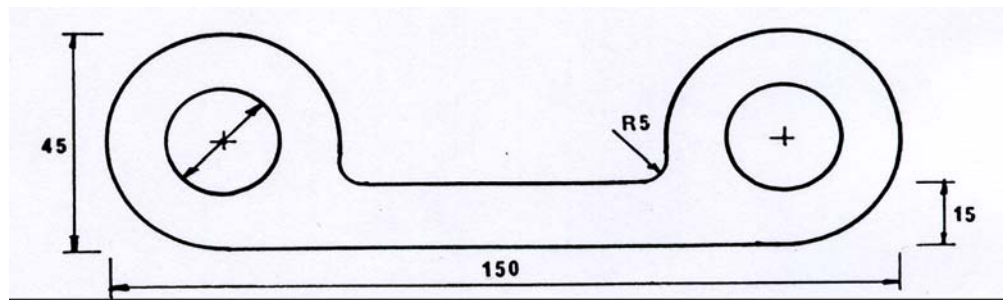
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Dock & Lock Gate Seals . "B" Sections.	4.	5.	1
		to	
	4.	5.	6
Dock & Lock Gate Seals. "P" Section (J Seals)	4.	5.	7
		to	
	4.	5.	17
Dock & Lock Gate Seals. "U" Section	4.	5.	18
Dock & Lock Gate Seals. Greenheart Insert & Flat.	4.	5.	19
Dock & Lock Gate Seals. Angle Seals.	4.	5.	20
Dock & Lock Gate Seals. Angle Seals.	4.	5.	21
Dock & Lock Gate Seals. Angle Seals.	4.	5.	22
Dock & Lock Gate Seals. Angle Seals.	4.	5.	23
Dock & Lock Gate Seals. Angle Seals.	4.	5.	24
Dock & Lock Gate Seals. Angle Seals.	4.	5.	25
Dock & Lock Gate Seals. Angle Seals.	4.	5.	26
Dock & Lock Gate Seals. Caisson Sections	4.	5.	27
Hand Fabricated Seals	4.	5.	28
Design of Dock & Lock Gate Seals.	4.	5.	29
P.T.F.E. Clad Gate Seals.	4.	5.	30
Estimation of the Wear and Tear Values of Seals.	4.	5.	31
Coefficient of Sliding Friction for Gate Seals.	4.	5.	32

DOCK & LOCK GATE SEALS "B" SECTION

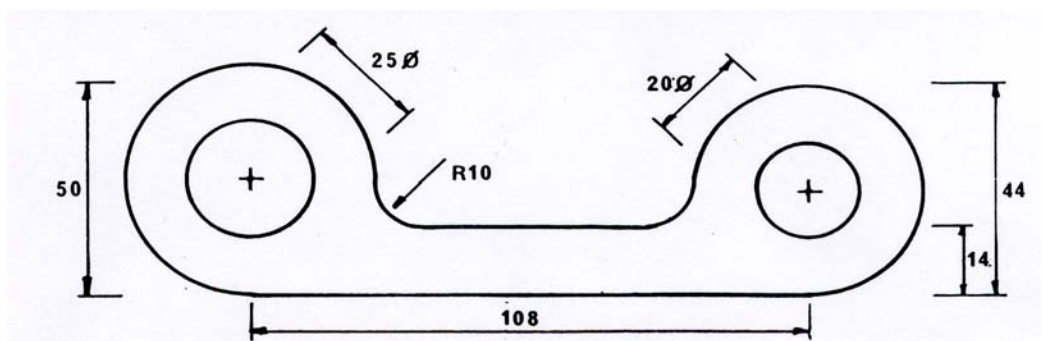
4-5-1



Product Code	Material	Standard Length metres	Additional Information
PM 872003	Neoprene 70°	10	Any length available to order. Large stocks held. Can be vulcanised to form corners. See technical data section.



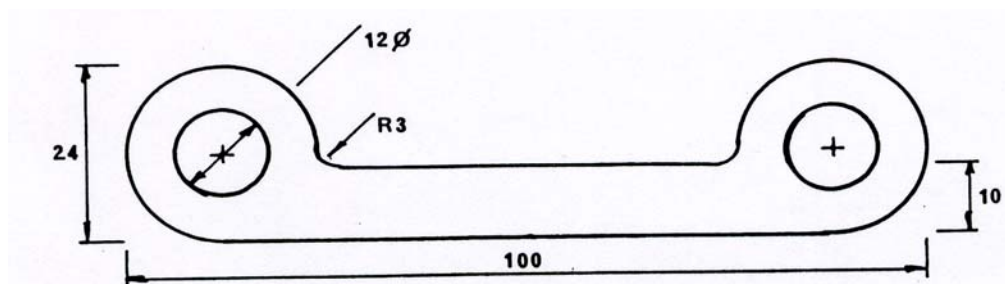
Product Code	Material	Standard Length metres	Additional Information
PM 920407	Neoprene 70°	3.1	Low MOQ apply.



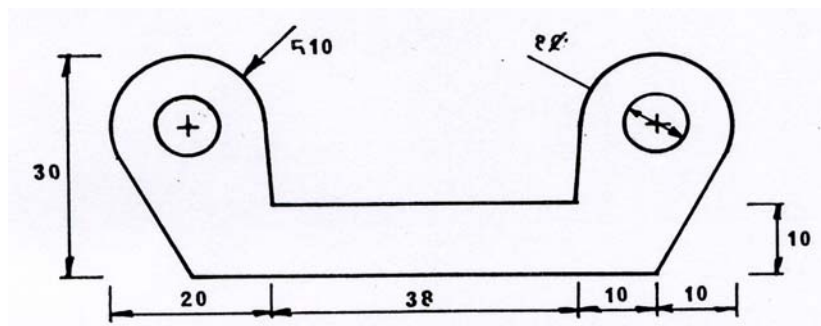
Product Code	Material	Standard Length metres	Additional Information
PM 882802	Neoprene 65°	10	MOQ apply.

4-5-2

DOCK & LOCK GATE SEALS "B" SECTION



Product Code	Material	Standard Length metres	Additional Information
PM 932802	70° EPDM W.R.C.	3.05	Low MOQ apply.

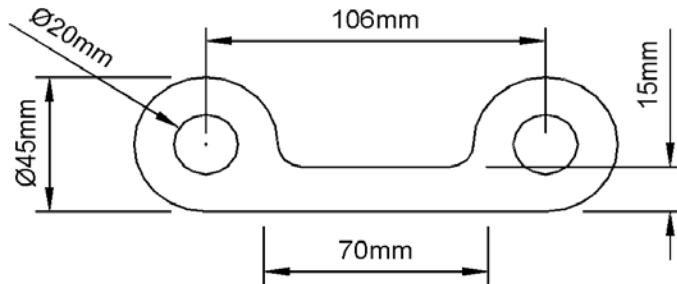


Product Code	Material	Standard Length metres	Additional Information
PM 931001	EPDM 65°	3.05	MOQ apply.

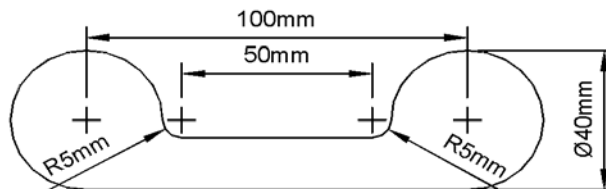
SHORT DELIVERY PERIOD ON MOST SECTIONS

DOCK & LOCK GATE SEALS "B" SECTION

4-5-3

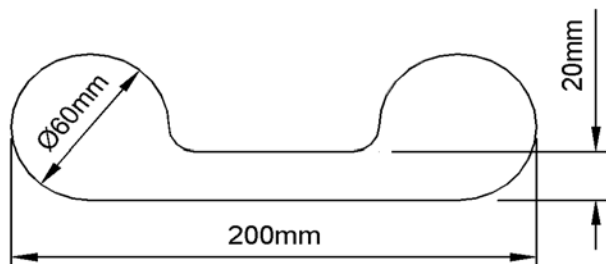


Product Code	Material	Standard Length metres	Additional Information
PM 981802	70° SH NEOPRENE	3.05 MTRS	SMALL M.O.Q. CAN BE JOINED

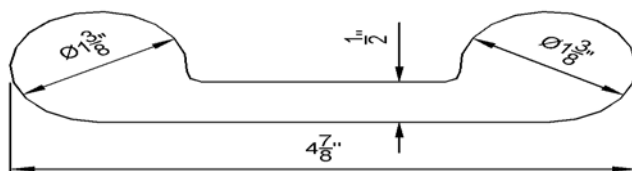


4-5-4

DOCK & LOCK GATE SEALS "B" SECTION

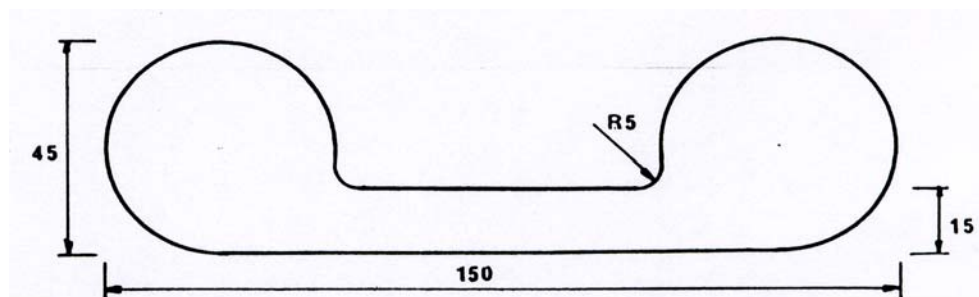


Product Code	Material	Standard Length metres	Additional Information
PM974202	70° SH NEOPRENE	3.05 MTRS	SMALL MOQ - CAN BE JOINED

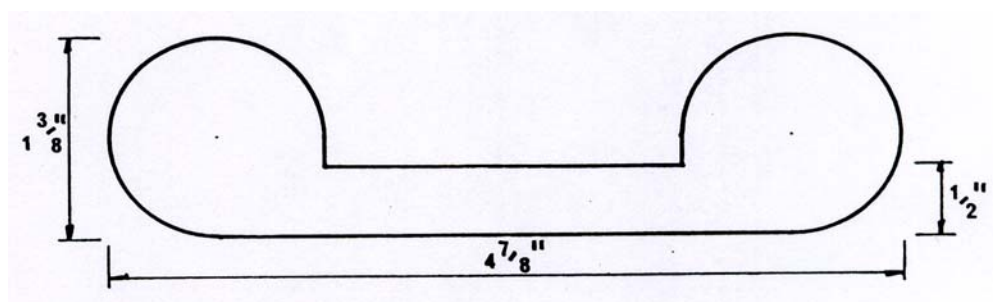


DOCK & LOCK GATE SEALS "B" SECTION

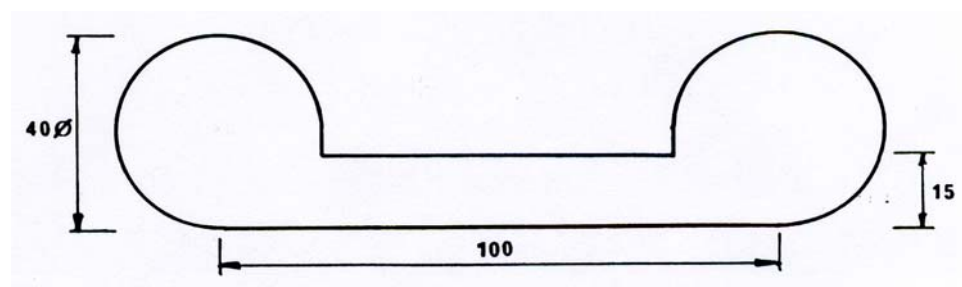
4-5-5



Product Code	Material	Standard Length metres	Additional Information
PM 930702	Neoprene 70°	10	MOQ apply.



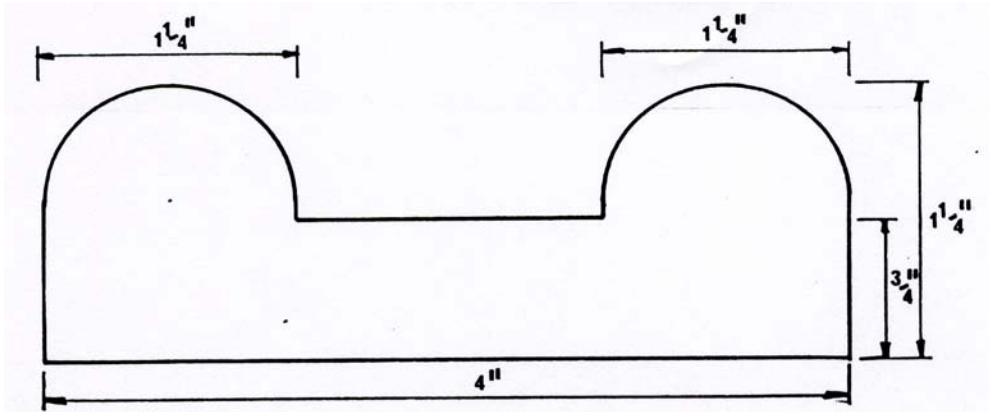
Product Code	Material	Standard Length metres	Additional Information
PM 951703	Neoprene 70°	3.1	Can be joined for longer lengths.



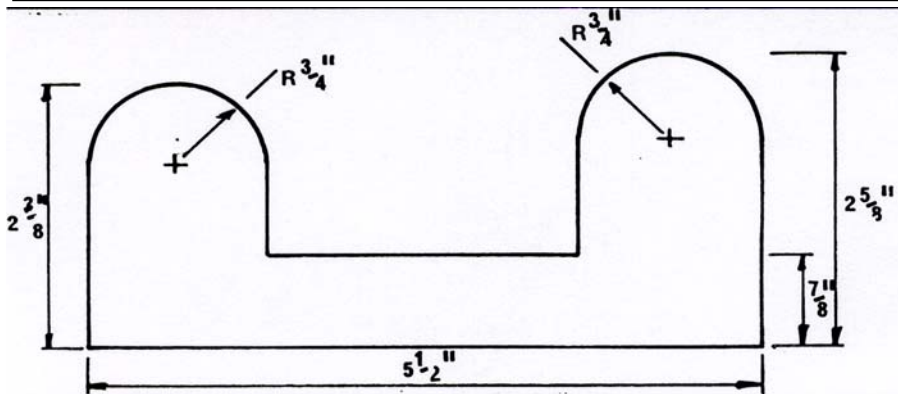
Product Code	Material	Standard Length metres	Additional Information
PM 892701	Neoprene 60°	10	MOQ apply.

4-5-6

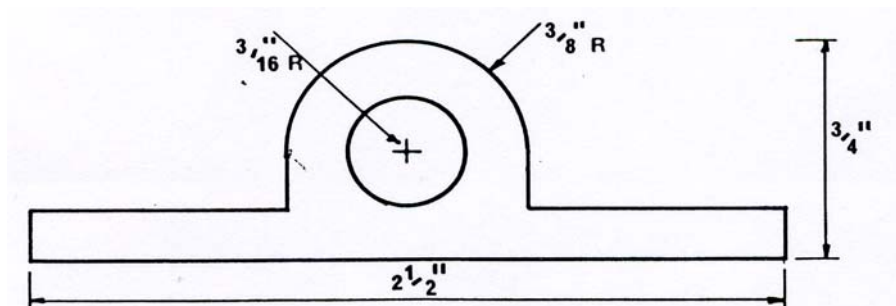
DOCK & LOCK GATE SEALS "B" SECTION



Product Code	Material	Standard Length metres	Additional Information
PM 880214	EPDM 60°	3.05	Can be joined for longer lengths.



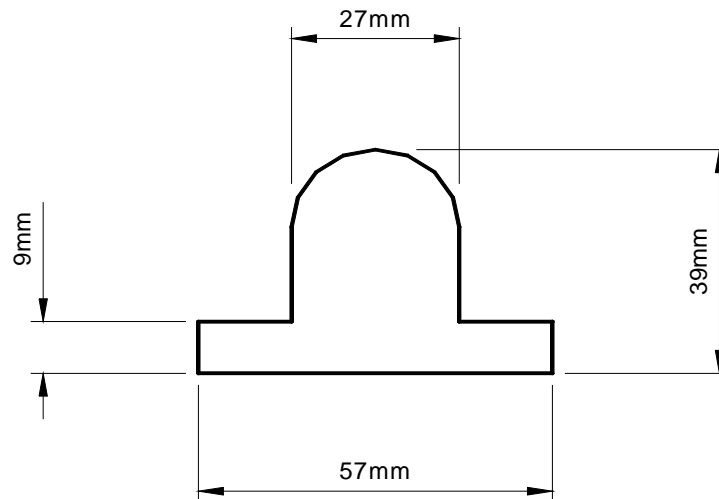
Product Code	Material	Standard Length metres	Additional Information
PM 911704	EPDM 70°	3.05	Can be joined. MOQ apply.



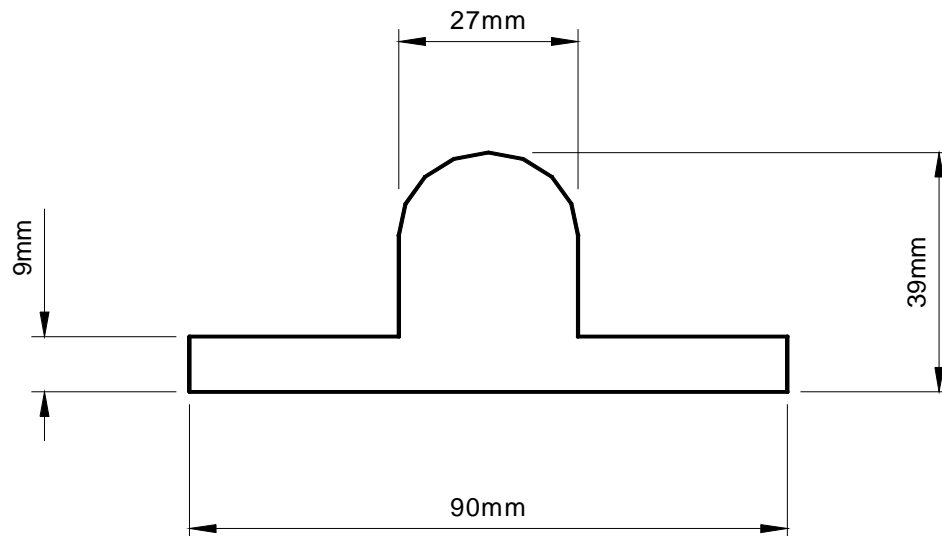
Product Code	Material	Standard Length metres	Additional Information
PM 910502	EPDM 60°	3.05	MOQ apply.

DOCK & LOCK GATE SEALS DOUBLE FLANGE SEALS

4-5-7



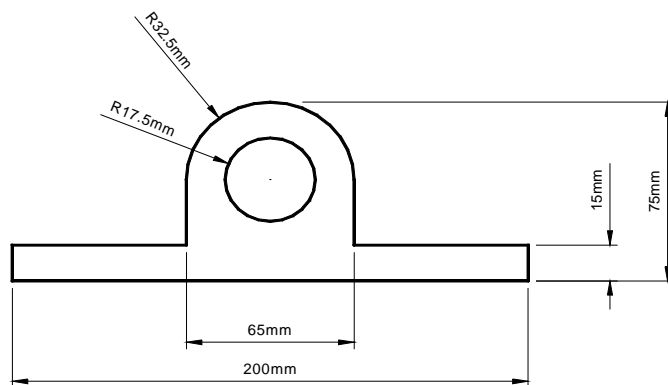
Product Code	Material	Standard Length metres	Additional Information
PM 963402	70° SH EPDM	10	Can be joined for longer lengths.



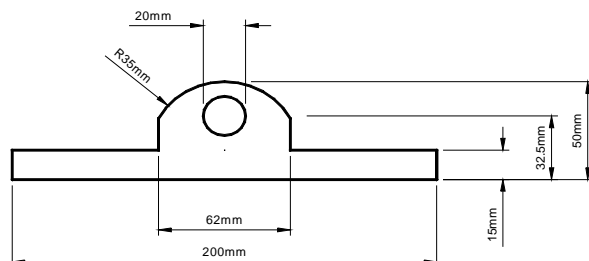
Product Code	Material	Standard Length metres	Additional Information
PM 973002	68/71° SH BLACK EPDM	3	Can be joined for longer lengths.

4-5-8

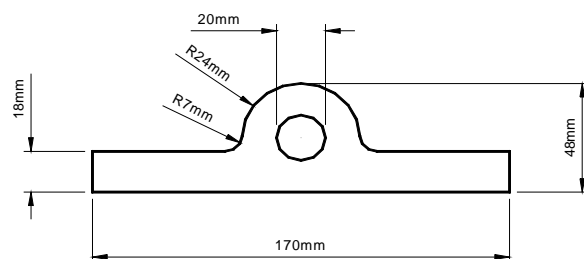
DOCK & LOCK GATE SEALS DOUBLE FLANGE SEALS



Product Code	Material	Standard Length metres	Additional Information
PM 012501	60° Neoprene	3	



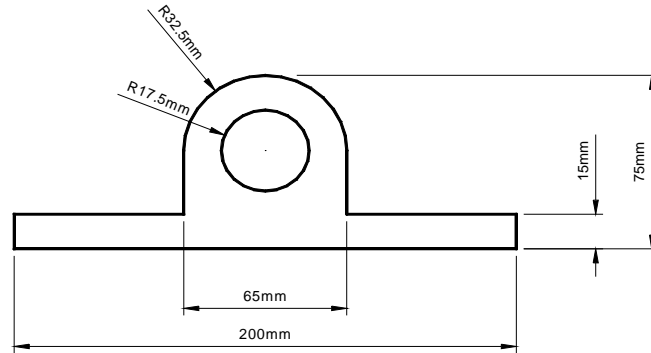
Product Code	Material	Standard Length metres	Additional Information
PM 023702	60° Neoprene	3	Can be joined for longer lengths.



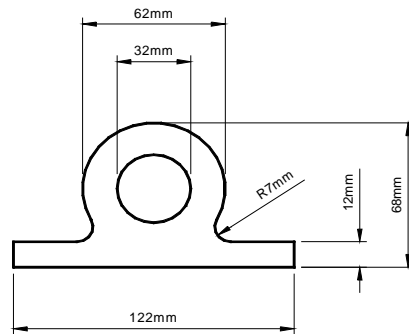
Product Code	Material	Standard Length metres	Additional Information
PM 953502	65° Neoprene	3	Can be joined for longer lengths.

DOCK & LOCK GATE SEALS DOUBLE FLANGE SEALS

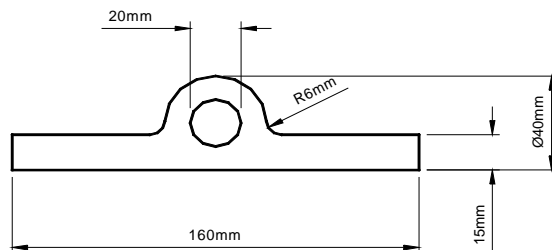
4-5-9



Product Code	Material	Standard Length metres	Additional Information
PM 025301	40° Neoprene	3	Can be joined for longer lengths

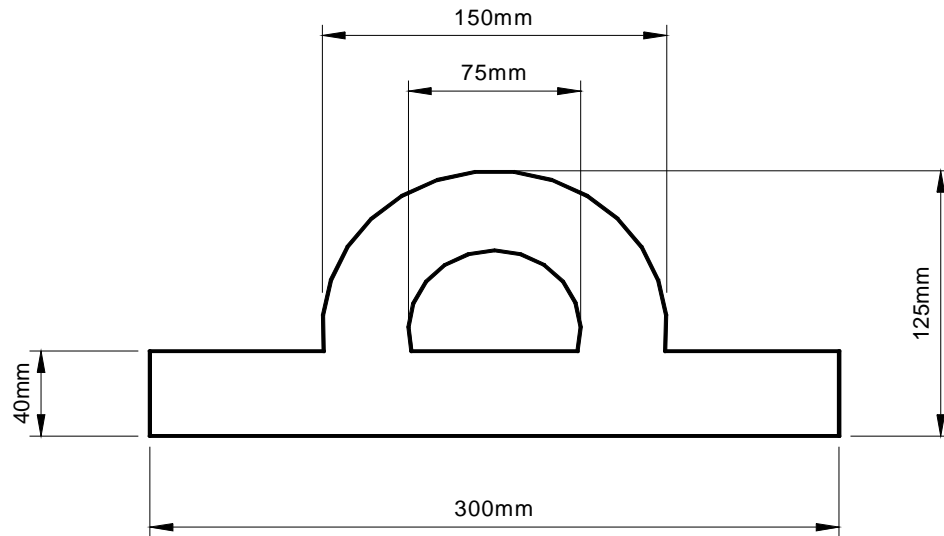


Product Code	Material	Standard Length metres	Additional Information
PM 001102	BS2752 C60	3	Can be joined for longer lengths

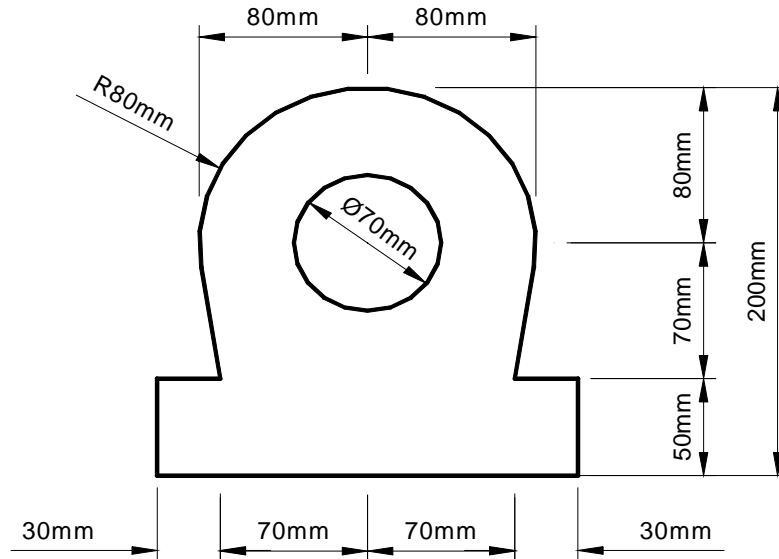


Product Code	Material	Standard Length metres	Additional Information
PM 954004	65/70° Neoprene	3	Can be joined for longer lengths

DOCK & LOCK GATE SEALS DOUBLE FLANGE SEALS



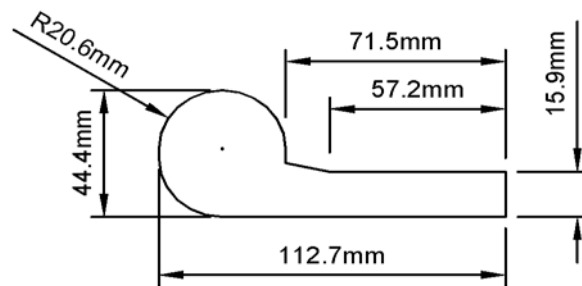
Product Code	Material	Standard Length metres	Additional Information
PM 974201	70° SH Neoprene	3	Can be joined for longer lengths



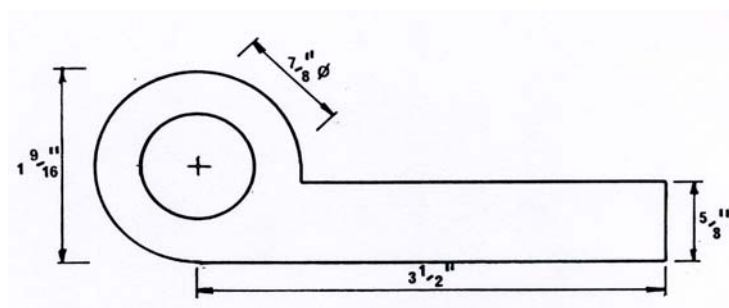
Product Code	Material	Standard Length metres	Additional Information
PM 993901	60° SH EPDM	3	Can be joined for longer lengths.

DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)

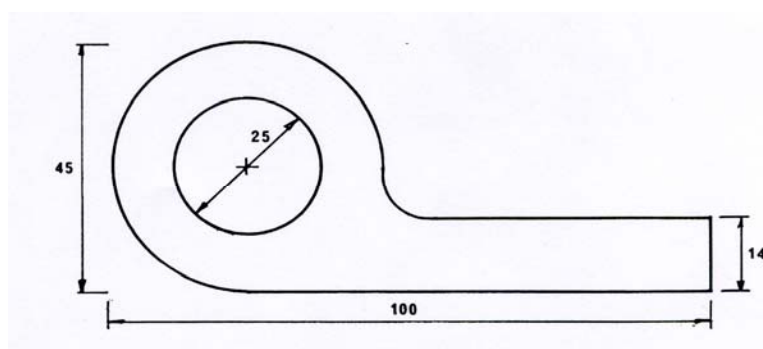
4-5-11



Product Code	Material	Standard Length metres	Additional Information
PM023201	70° SH NEOPRENE	3.05 MTRS	SMALL M.O.Q - CAN BE JOINED



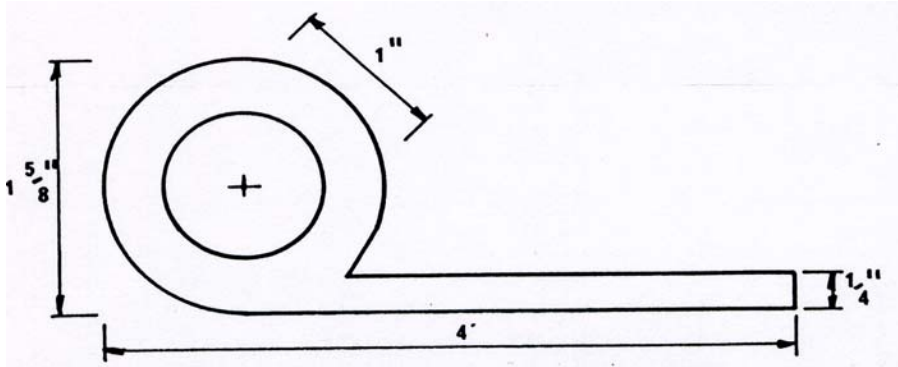
Product Code	Material	Standard Length metres	Additional Information
PM 874101	Neoprene 65°	10	Stock item. No MOQ. Can be hot vulcanised.



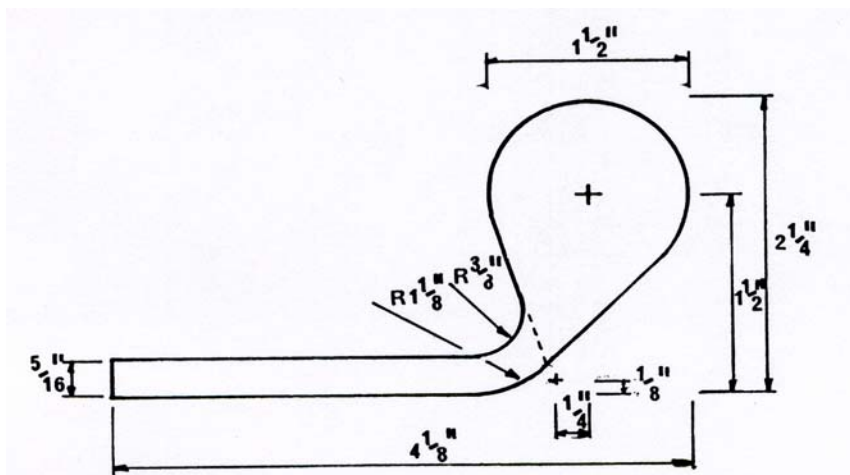
Product Code	Material	Standard Length metres	Additional Information
PM 935001	Neoprene 70°	10	Low MOQ apply.

4-5-12

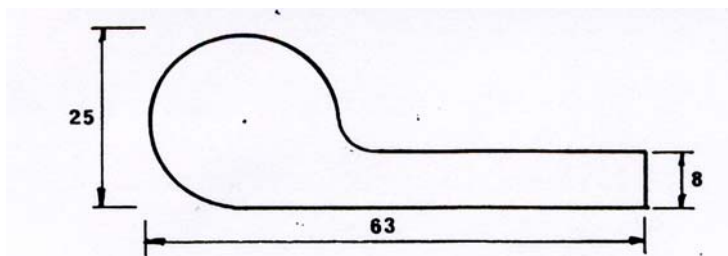
DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)



Product Code	Material	Standard Length metres	Additional Information
PM 883102	Neoprene 60°	3.05	Stock item.



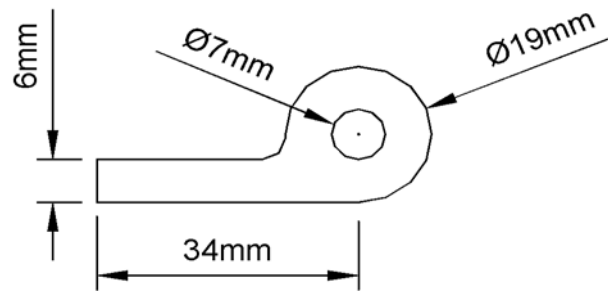
Product Code	Material	Standard Length metres	Additional Information
PM 910904	Neoprene 70°	3.05	MOQ may apply.
PM 942701	Neo/Nitrile 45°	3.05	MOQ may apply. Softer seal.



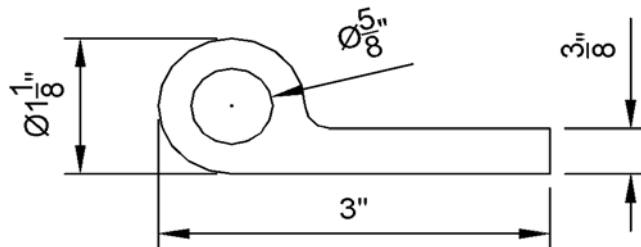
Product Code	Material	Standard Length metres	Additional Information
PM 935002	Neoprene 65°	3.05	Can be joined. MOQ applies.

DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)

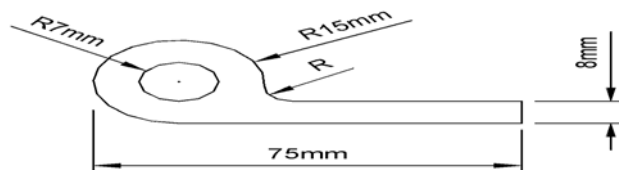
4-5-13



Product Code	Material	Standard Length metres	Additional Information
PM033002	60° SH EPDM	20 MTRS	40 METRES M.O.Q.

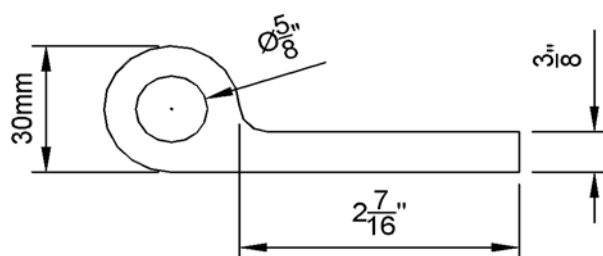


Product Code	Material	Standard Length metres	Additional Information
PM982601	60° SH NEOPRENE	3.05 MTRS	SMALL M.O.Q. CAN BE JOINED

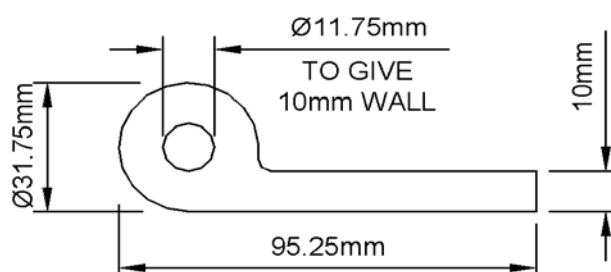


4-5-14

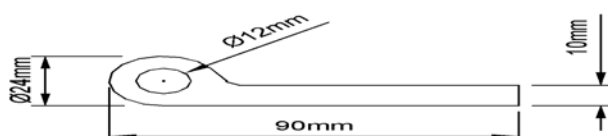
DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)



Product Code	Material	Standard Length metres	Additional Information
PM990702	60° SH EPDM	20 MTRS	40 METRES M.O.Q.



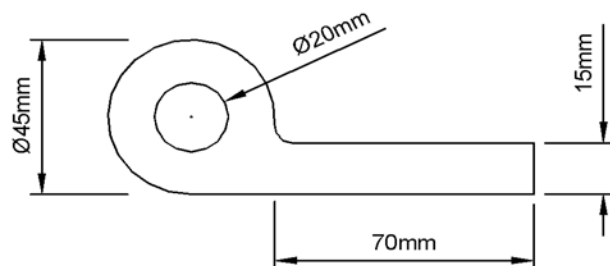
Product Code	Material	Standard Length metres	Additional Information
PM991303	60° SH NEOPRENE	3.05 MTRS	SMALL M.O.Q. CAN BE JOINED



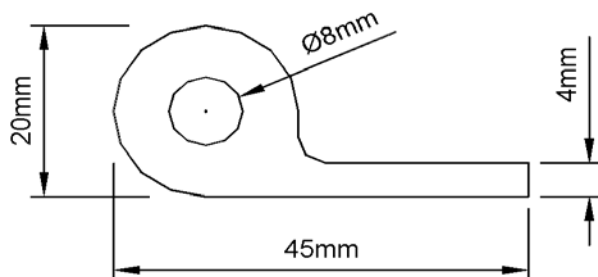
DOCK & LOCK GATE SEALS

"P" SECTION (J SEALS)

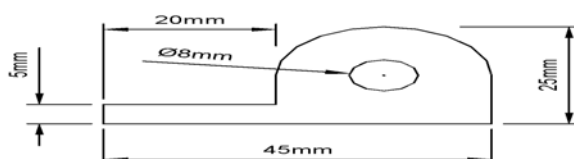
4-5-15



Product Code	Material	Standard Length metres	Additional Information
PM981803	70° SH EPDM	3.05 MTRS	SMALL MOQ, CAN BE JOINED

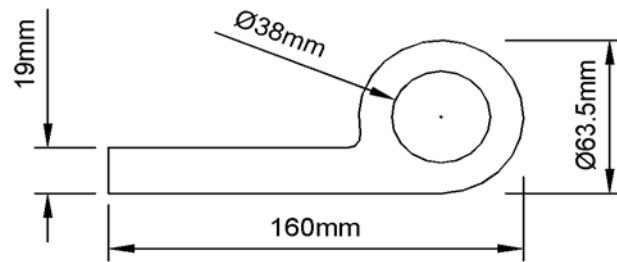


Product Code	Material	Standard Length metres	Additional Information
PM973403	60° SH NEOPRENE	3.05 MTRS	SMALL M.O.Q. CAN BE JOINED

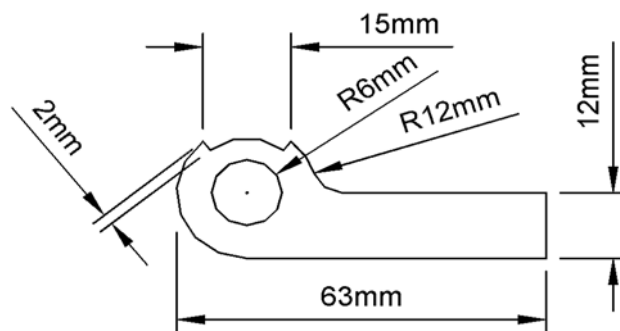


4-5-16

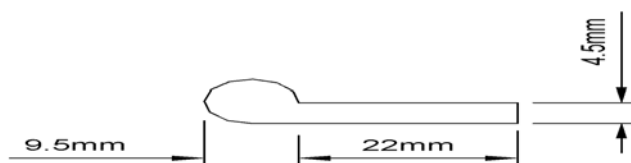
DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)



Product Code	Material	Standard Length metres	Additional Information
PM982602	60° SH NEOPRENE	3.05 MTRS	SMALL MOQ - CAN BE JOINED



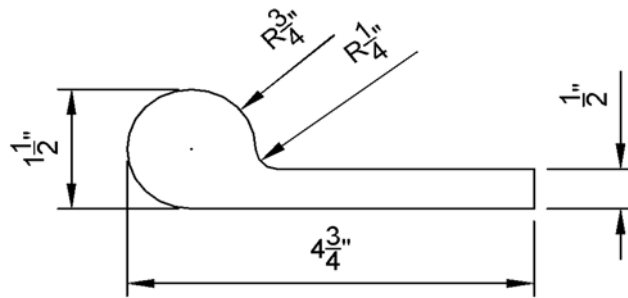
Product Code	Material	Standard Length metres	Additional Information
PM033301	60° SH NEOPRENE	3.05 MTRS	HAS A GROOVE TO FACILITATE P.T.F.E. WEAR FACE CAN BE JOINED



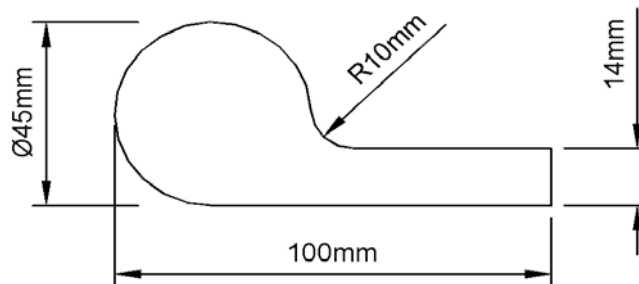
DOCK & LOCK GATE SEALS

"P" SECTION (J SEALS)

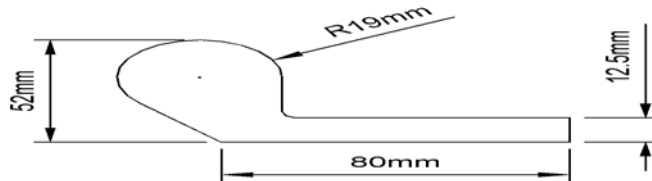
4-5-17



Product Code	Material	Standard Length metres	Additional Information
PM002102	70° SH EPDM	3.05 MTRS	SMALL M.O.Q - CAN BE JOINED

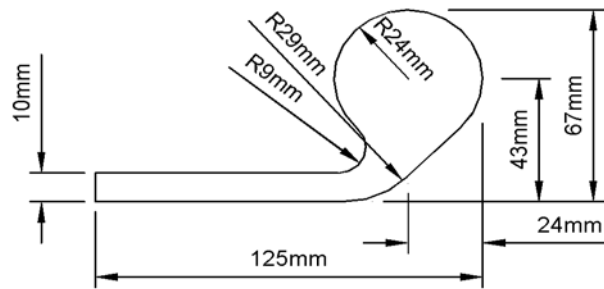


Product Code	Material	Standard Length metres	Additional Information
PM961102	65° SH NEOPRENE	3.05 MTRS	SMALL M.O.Q. CAN BE JOINED

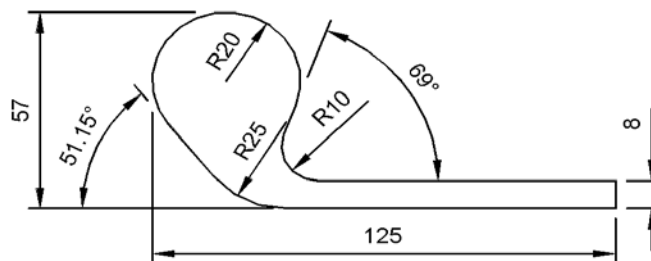


4-5-18

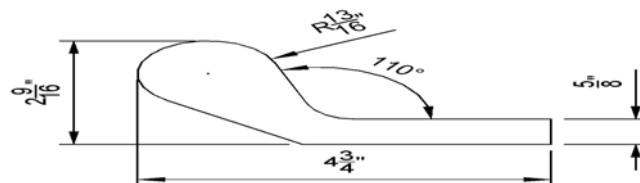
DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)



Product Code	Material	Standard Length metres	Additional Information
PM991501	75° SH EPDM	3.05 MTRS	SMALL MOQ - CAN BE JOINED

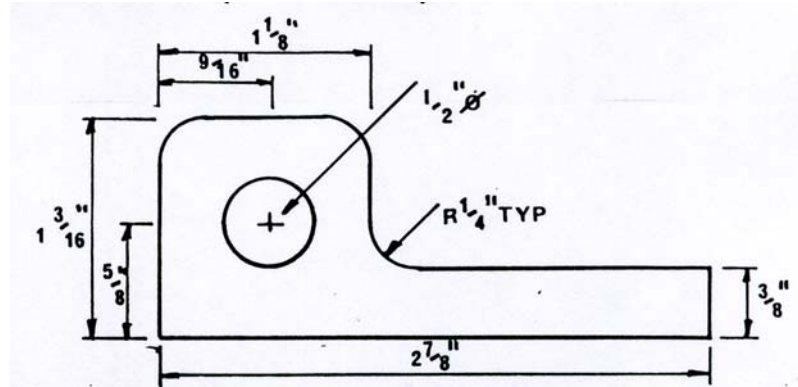


Product Code	Material	Standard Length metres	Additional Information
PM994101	50° SH NEOPRENE	3.05 MTRS	SMALL M.O.Q. CAN BE JOINED

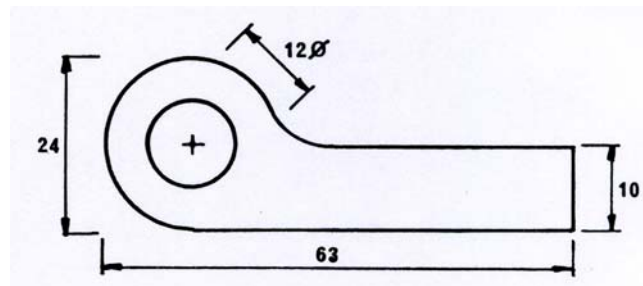


DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)

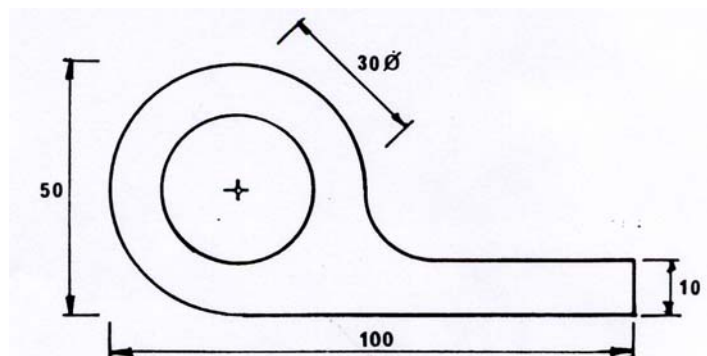
4-5-19



Product Code	Material	Standard Length metres	Additional Information
PM 864402	Neoprene 50°	10	MOQ apply. Longer lengths available.



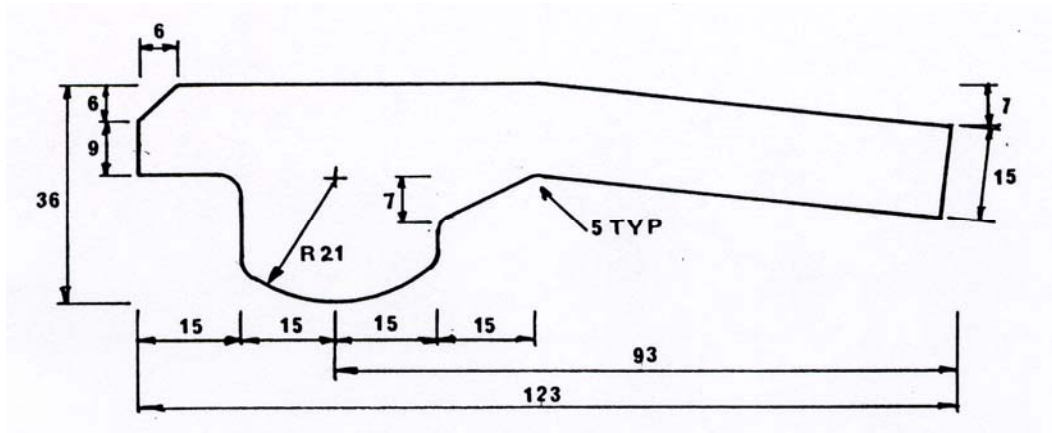
Product Code	Material	Standard Length metres	Additional Information
PM 900801(B)	Neoprene 65°	3.05	Stock item. No MOQ. Can be joined.



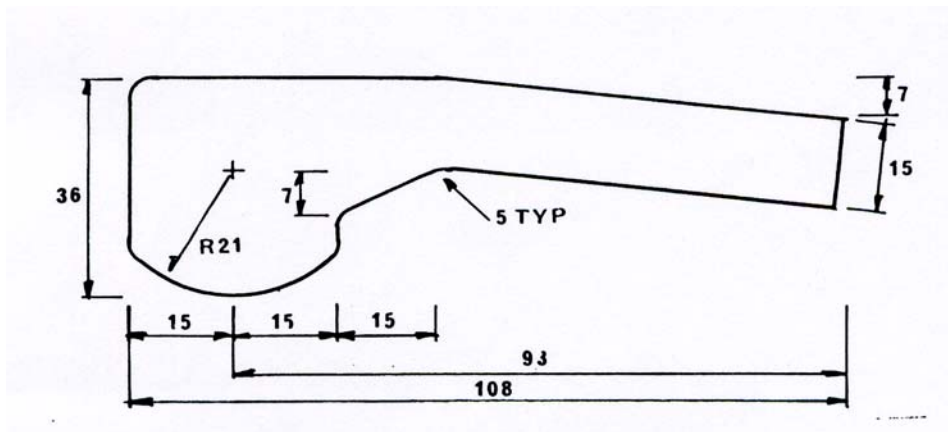
Product Code	Material	Standard Length metres	Additional Information
PM 900203	Neoprene 65°	3.05	Low MOQ.

4-5-20

DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)



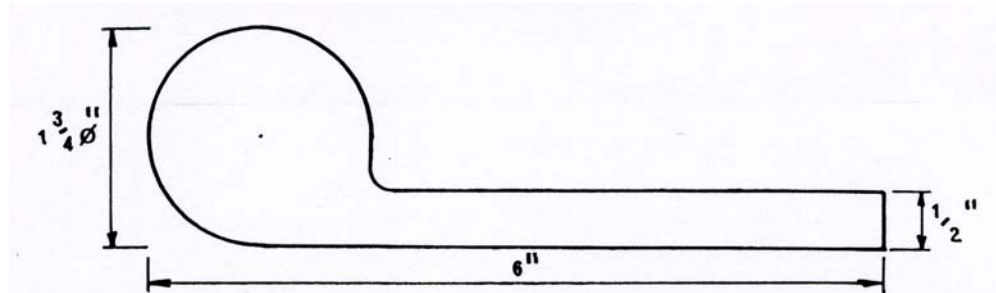
Product Code	Material	Standard Length metres	Additional Information
PM 920601	EPDM 70°	3.05	Small MOQ. Can be joined.



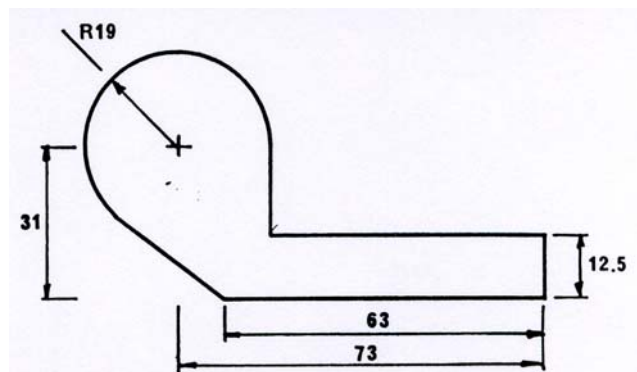
Product Code	Material	Standard Length metres	Additional Information
PM 920602	EPDM 70°	3.05	Small MOQ. Can be joined.

DOCK & LOCK GATE SEALS "P" SECTION (J SEALS)

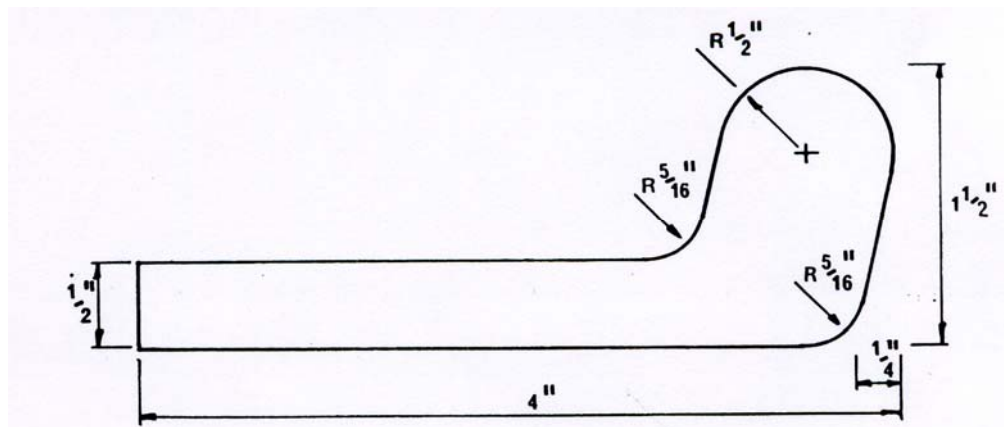
4-5-21



Product Code	Material	Standard Length metres	Additional Information
PM 951702	EPDM 70°	3.05	Small MOQ. Can be joined.



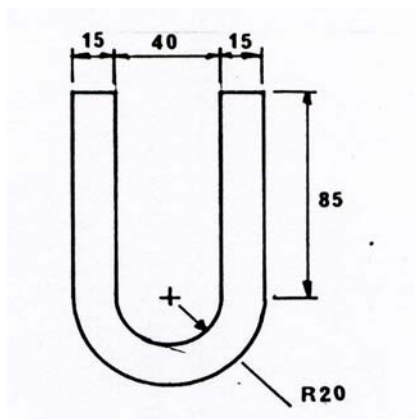
Product Code	Material	Standard Length metres	Additional Information
PM 900201	Neoprene 55°	3.05	MOQ apply. Can be joined.



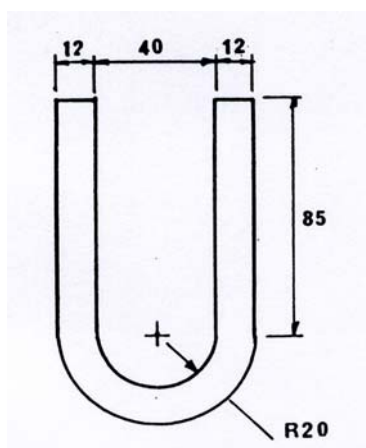
Product Code	Material	Standard Length metres	Additional Information
PM 910903	EPDM 70°	3.05	MOQ apply. Can be joined for longer lengths and corners.

4-5-22

DOCK & LOCK GATE SEALS "U" SECTION



Product Code	Material	Standard Length metres	Additional Information
PM 924601	Neoprene 60°	10	MOQ apply.



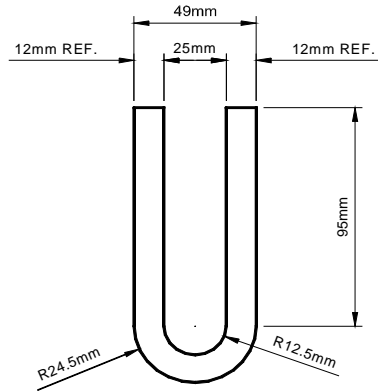
Product Code	Material	Standard Length metres	Additional Information
PM 910501	Neoprene 60°	10	MOQ apply.

FOR SMALLER VERSIONS SEE "U" CHANNELS 2-1-1/3

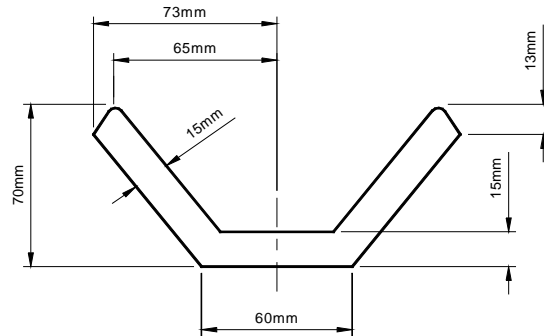
DOCK & LOCK GATE SEALS

"U" SECTION

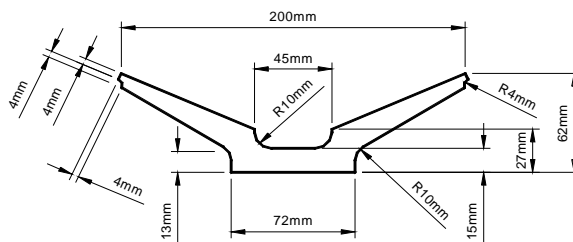
4-5-23



Product Code	Material	Standard Length metres	Additional Information
PM 021204	57/67° Black Neoprene	3	Can be joined for longer lengths



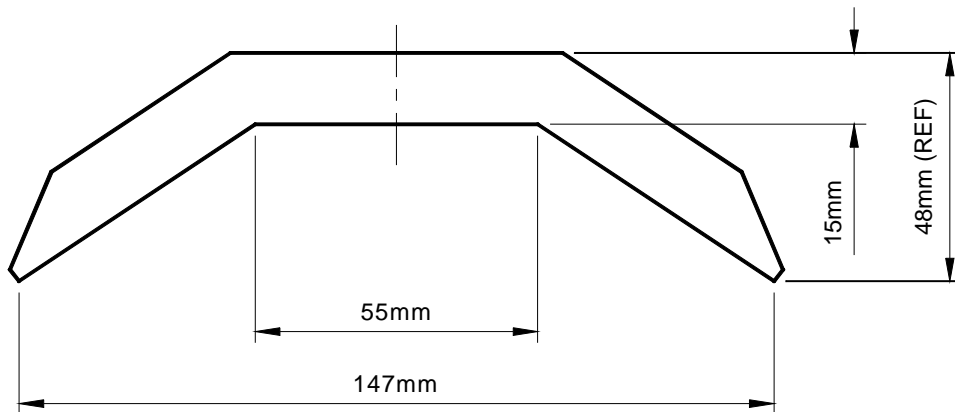
Product Code	Material	Standard Length metres	Additional Information
PM 061701	65° Neoprene	5	Can be joined for longer lengths



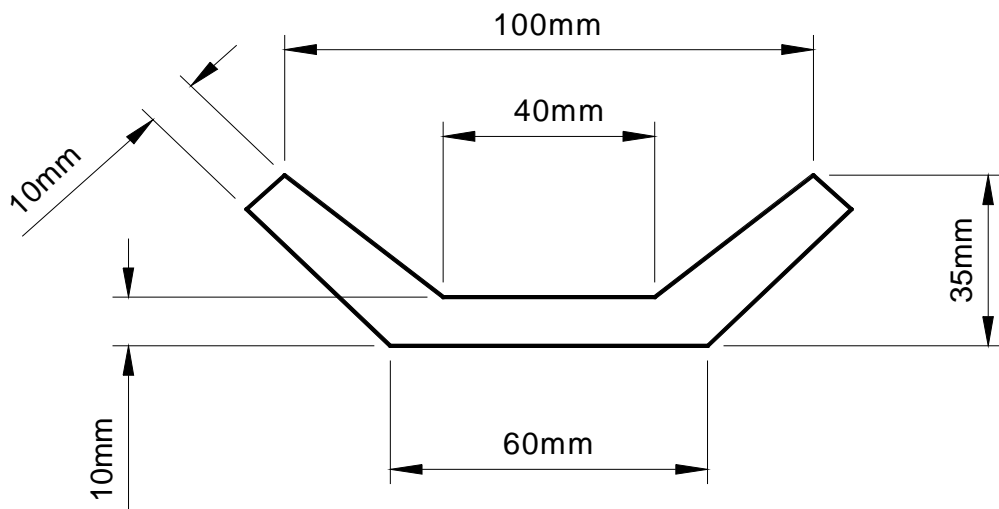
Product Code	Material	Standard Length metres	Additional Information
PM 963501	65° Neoprene	3	Can be joined for longer lengths

4-5-24

DOCK & LOCK GATE SEALS "U" SECTION



Product Code	Material	Standard Length metres	Additional Information
PM 070201	70° EPDM	3	Can be joined for longer lengths

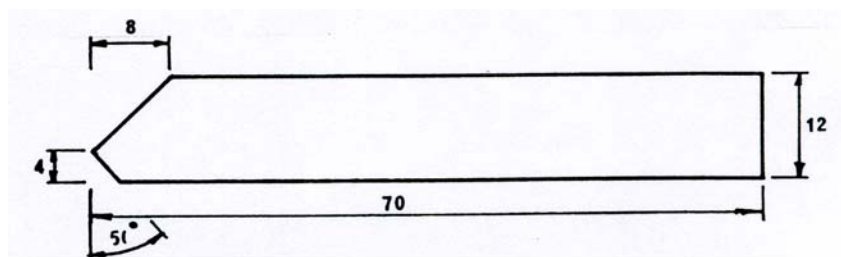


Product Code	Material	Standard Length metres	Additional Information
PM 060202	65° Neoprene	3	Can be joined for longer lengths

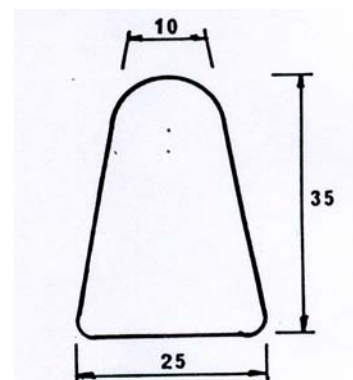
DOCK & LOCK GATE SEALS GREENHEART INSERT & FLAT

4-5-25

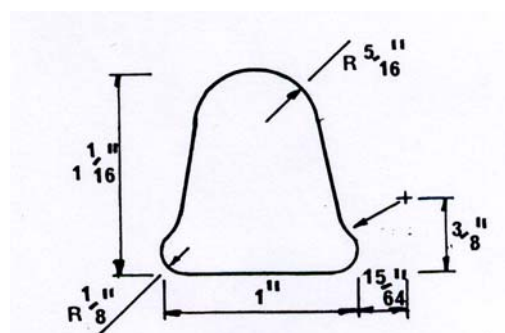
NOTE: OTHER FLAT SEALS ARE AVAILABLE CUT AND GROUND FROM SHEET TO YOUR SPECIFICATION.



Product Code	Material	Standard Length metres	Additional Information
PM 893604	Neoprene 65°	10	MOQ apply.



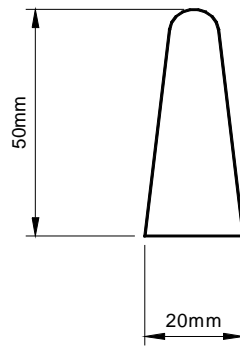
Product Code	Material	Standard Length metres	Additional Information
PM 943102	Neoprene 45°	10	Soft Seal for timber insert.



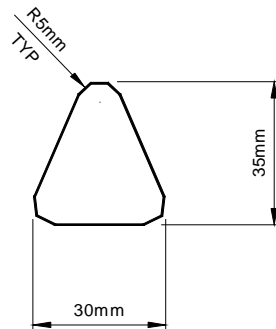
Product Code	Material	Standard Length metres	Additional Information
PM 930402	EPDM 65°	10	Longer lengths available.

4-5-26

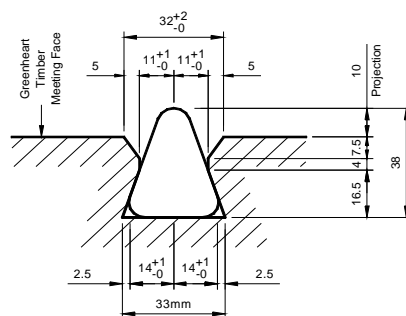
DOCK & LOCK GATE SEALS GREENHEART INSERT



Product Code	Material	Standard Length metres	Additional Information
PM 984603	60/70° SH EPDM	10	



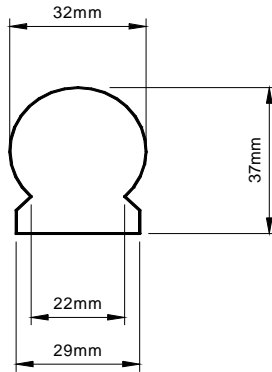
Product Code	Material	Standard Length metres	Additional Information
PM 971702	72/77° SH Black EPDM	10	



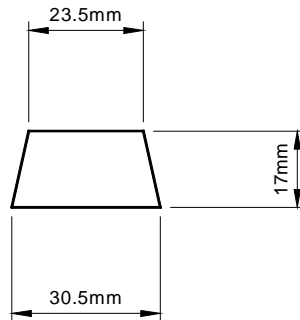
Product Code	Material	Standard Length metres	Additional Information
PM 995201	50° SH EPDM	10	

DOCK & LOCK GATE SEALS GREENHEART INSERT

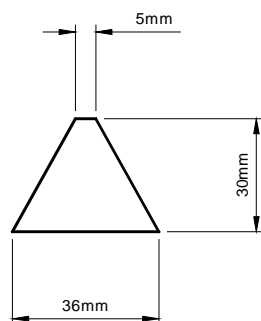
4-5-27



Product Code	Material	Standard Length metres	Additional Information
PM 052101	70° SH Black EPDM	10	



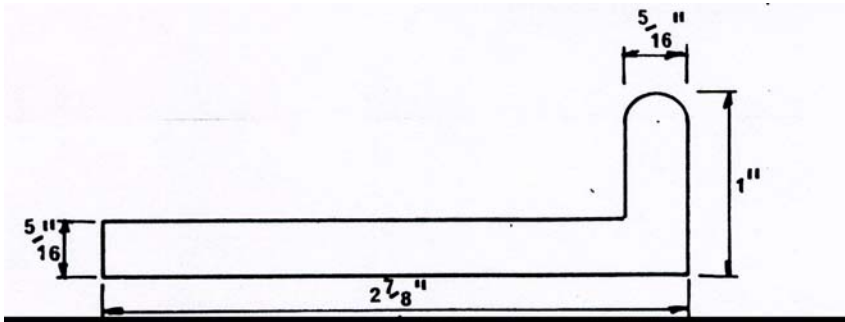
Product Code	Material	Standard Length metres	Additional Information
PM 043501	60° SH EPDM	10	



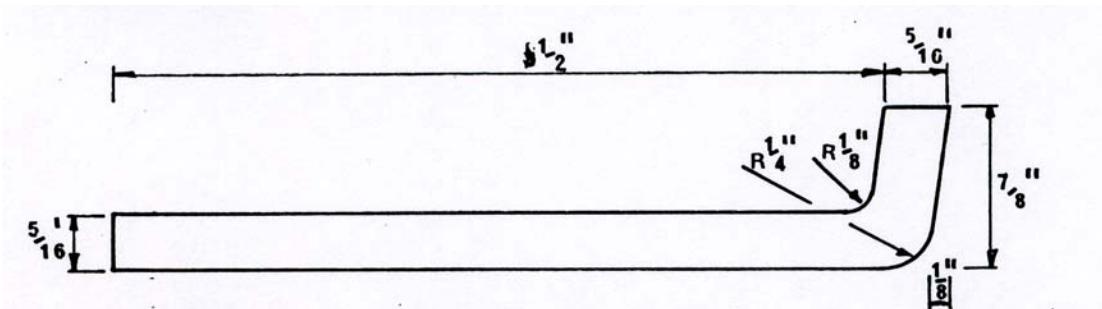
Product Code	Material	Standard Length metres	Additional Information
PM 972501	35/45° SH Natural/ Nitrile Mix UV Stable	10	

4-5-28

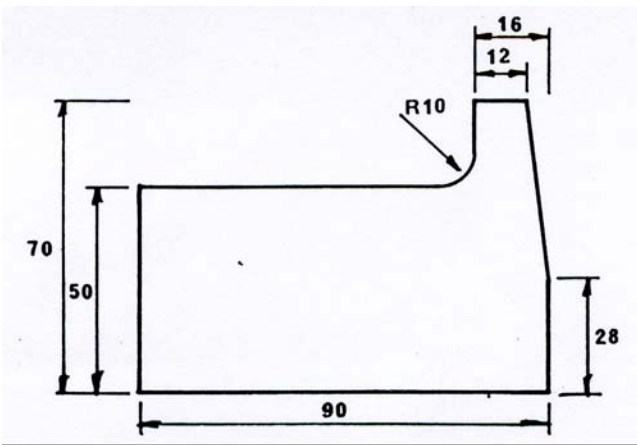
DOCK & LOCK GATE SEALS ANGLE SEALS



Product Code	Material	Standard Length metres	Additional Information
PM 910907	EPDM 70°	3.05	Small MOQ apply.



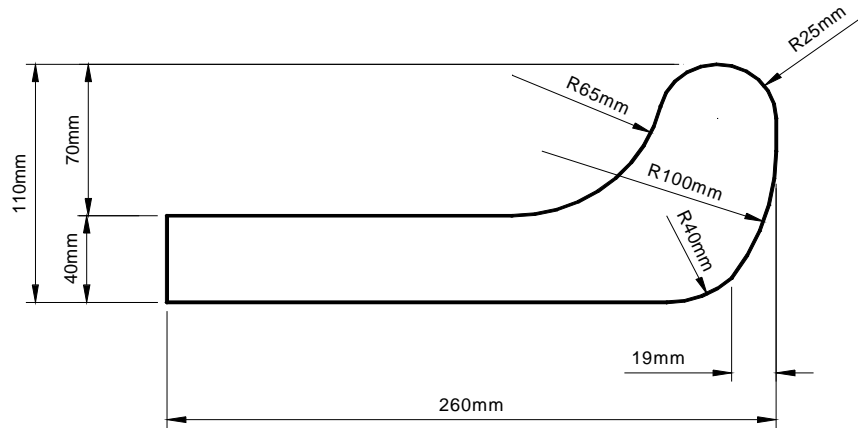
Product Code	Material	Standard Length metres	Additional Information
PM 910905	EPDM 70°	3.05	Small MOQ apply.



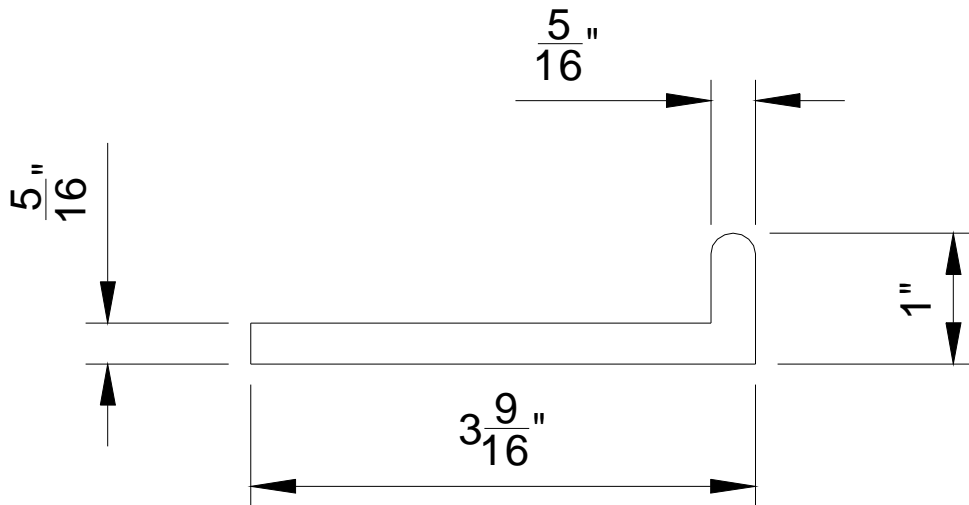
Product Code	Material	Standard Length metres	Additional Information
PM 944401	Neoprene 55°	3.05	Can be joined. MOQ apply.

DOCK & LOCK GATE SEALS ANGLE SEALS

4-5-29



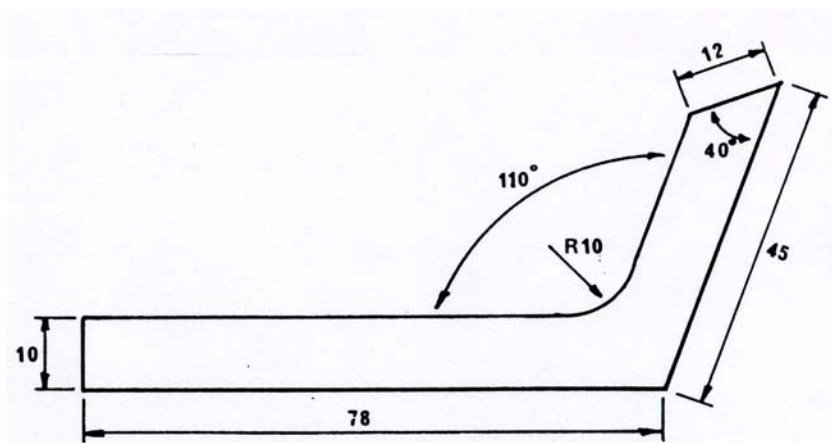
Product Code	Material	Standard Length metres	Additional Information
PM 033904	35x74 EPDM Compound	3	Can be joined for longer lengths



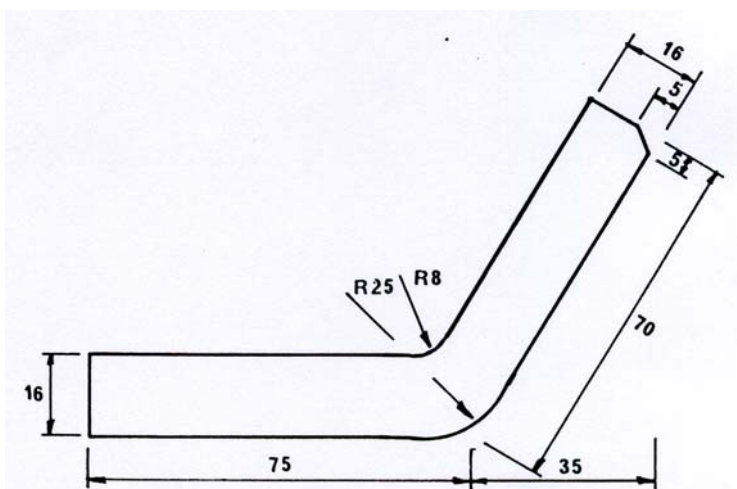
Product Code	Material	Standard Length metres	Additional Information
PM 992901	72/77° EPDM	3	Can be joined for longer lengths

4-5-30

DOCK & LOCK GATE SEALS ANGLE SEALS



Product Code	Material	Standard Length metres	Additional Information
PM 940705	EPDM 70°	3.05	Small MOQ.

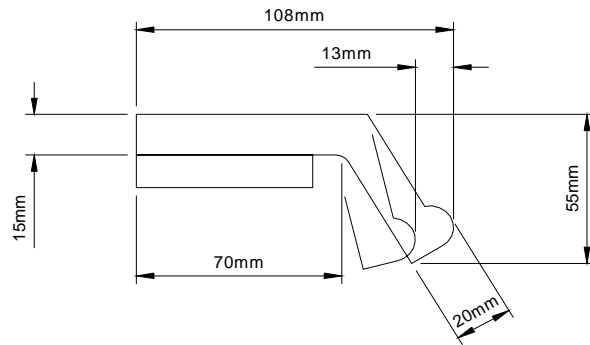


Product Code	Material	Standard Length metres	Additional Information
PM 941101	Neoprene 70°	3.05	Small MOQ.

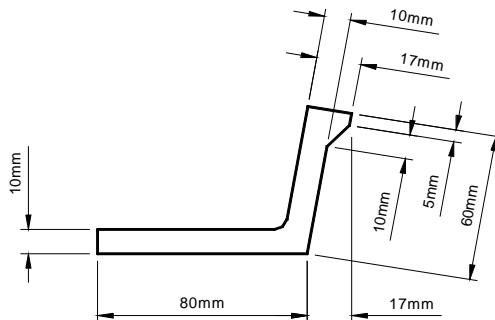
SEE TECHNICAL SECTION FOR MATERIAL INFORMATION AND JOINTING METHODS.

DOCK & LOCK GATE SEALS ANGLE SEALS

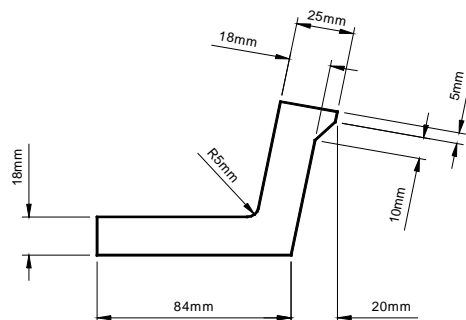
4-5-31



Product Code	Material	Standard Length metres	Additional Information
PM 993401	65° EPDM	3	Can be joined for longer lengths

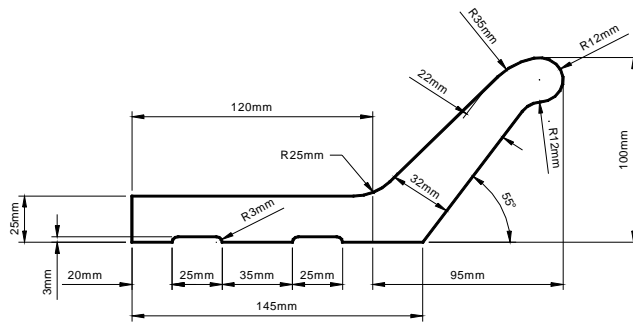


Product Code	Material	Standard Length metres	Additional Information
PM 981201	72/77° SH EPDM	3	Can be joined for longer lengths

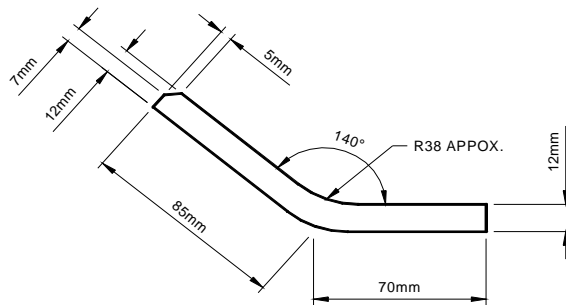


Product Code	Material	Standard Length metres	Additional Information
PM 060301	60° Neoprene	3	Can be joined for longer lengths

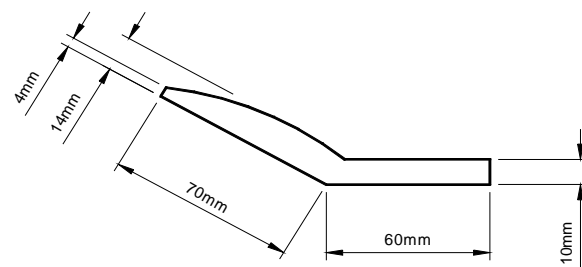
DOCK & LOCK GATE SEALS ANGLE SEALS



Product Code	Material	Standard Length metres	Additional Information
PM 001001	65/70° SH EPDM	3	Can be joined for longer lengths



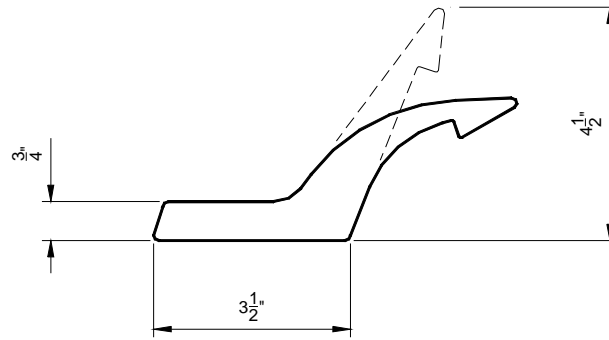
Product Code	Material	Standard Length metres	Additional Information
PM 041301	65° SH Neoprene	3	Can be joined for longer lengths



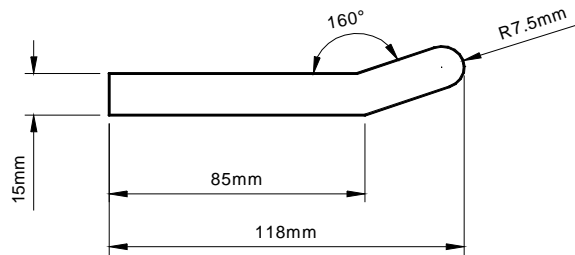
Product Code	Material	Standard Length metres	Additional Information
PM 060901	70° SH EPDM	3	Can be joined for longer lengths

DOCK & LOCK GATE SEALS ANGLE SEALS

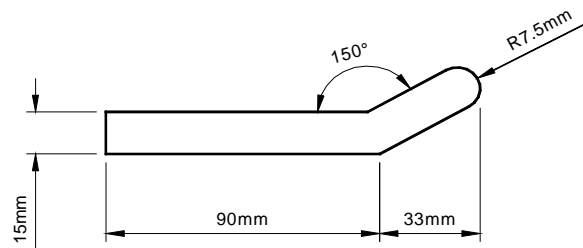
4-5-33



Product Code	Material	Standard Length metres	Additional Information
PM 965203	60/65° SH Neoprene	3	Can be joined for longer lengths

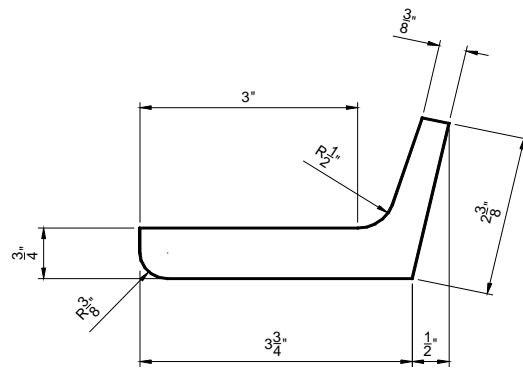


Product Code	Material	Standard Length metres	Additional Information
PM 970501	62/65° SH Neoprene	3	Can be joined for longer lengths

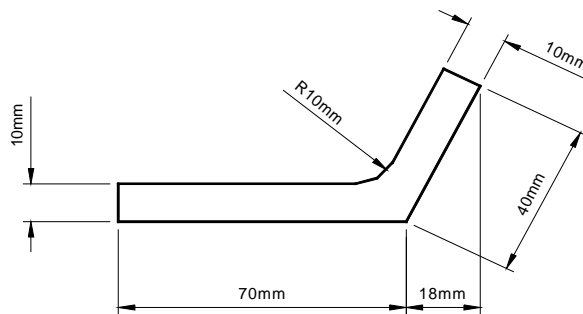


Product Code	Material	Standard Length metres	Additional Information
PM 964701	65° SH Neoprene	3	Can be joined for longer lengths

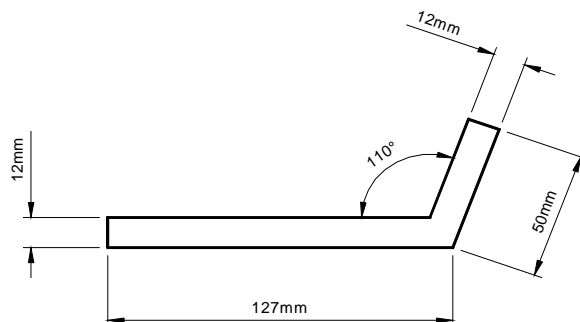
DOCK & LOCK GATE SEALS ANGLE SEALS



Product Code	Material	Standard Length metres	Additional Information
PM 002101	70° SH EPDM	3	Can be joined for longer lengths



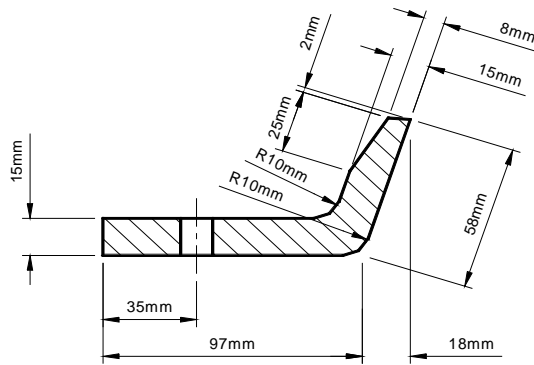
Product Code	Material	Standard Length metres	Additional Information
PM 962402	62/65°	3	Can be joined for longer lengths



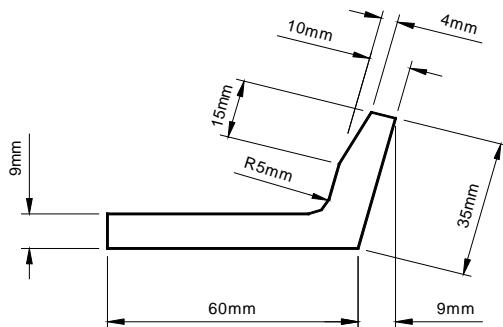
Product Code	Material	Standard Length metres	Additional Information
PM 063101	65° SH Neoprene	3	Can be joined for longer lengths

DOCK & LOCK GATE SEALS ANGLE SEALS

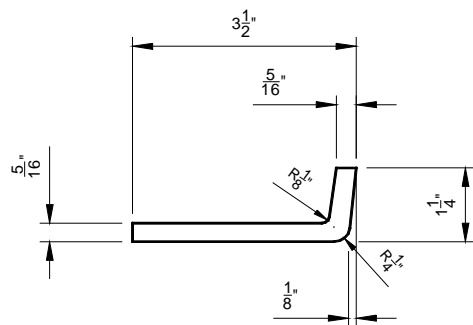
4-5-35



Product Code	Material	Standard Length metres	Additional Information
PM 984506	57/62° SH Neoprene	3	Can be joined for longer lengths



Product Code	Material	Standard Length metres	Additional Information
PM 962401		3	Can be joined for longer lengths

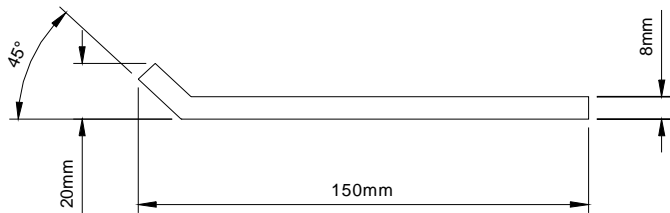


Product Code	Material	Standard Length metres	Additional Information
PM 013101	72/77° EPDM	3	Can be joined for longer lengths

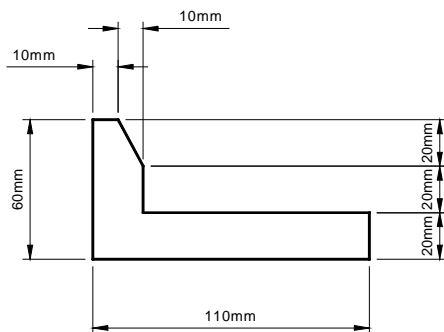
4-5-36

DOCK & LOCK GATE SEALS

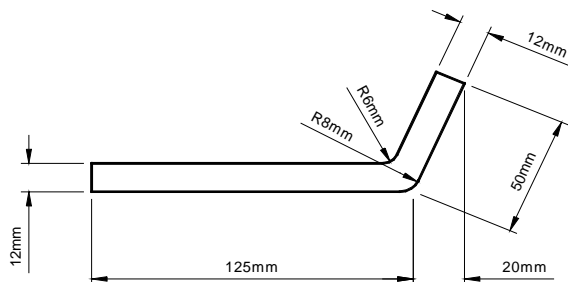
ANGLE SEALS



Product Code	Material	Standard Length metres	Additional Information
PM 993503	60° SH WRC EPDM	3	Can be joined for longer lengths



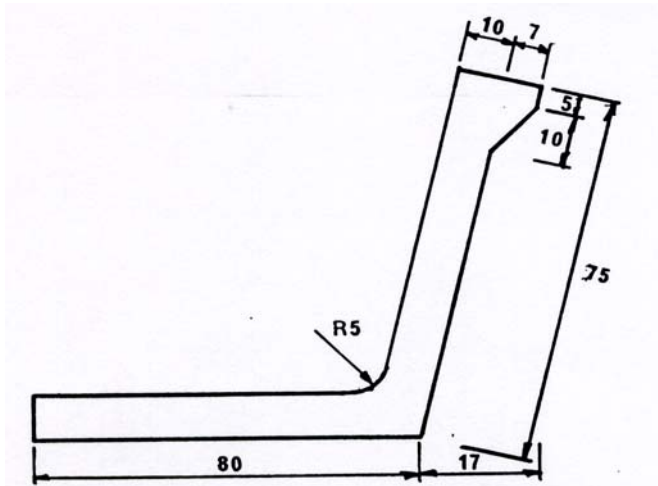
Product Code	Material	Standard Length metres	Additional Information
PM 021103	62/72° SH EPDM	3	Can be joined for longer lengths



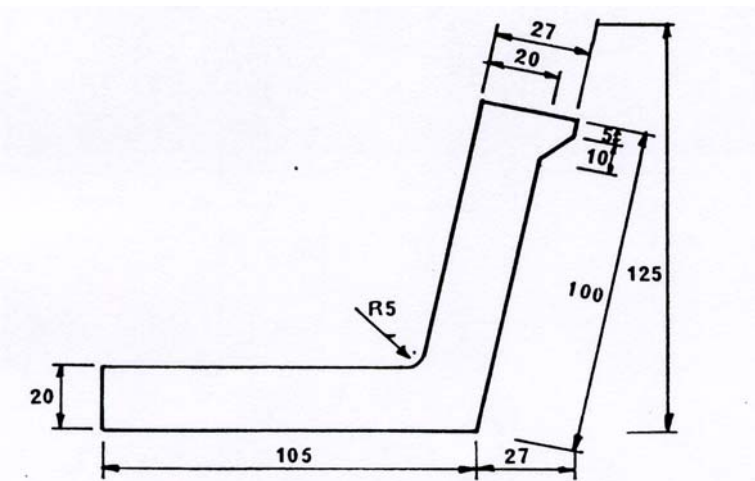
Product Code	Material	Standard Length metres	Additional Information
PM 983801	65° SH EPDM	3	Can be joined for longer lengths

DOCK & LOCK GATE SEALS ANGLE SEALS

4-5-37



Product Code	Material	Standard Length metres	Additional Information
PM 923602	EPDM 70°	3.05	Small MOQ. Radial Gate Seal.

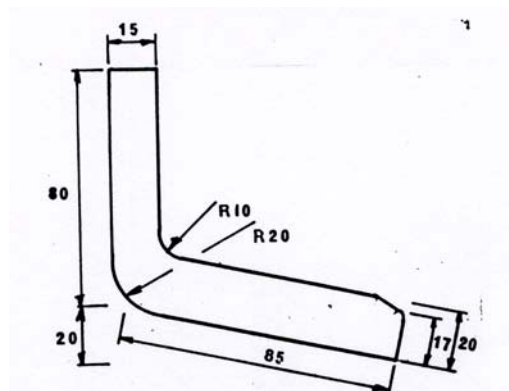


Product Code	Material	Standard Length metres	Additional Information
PM 910906	EPDM 70°	3.05	Small MOQ. Radial Gate Seal.
PM 925201	Neoprene 45°	3.05	Soft Radial Gate Seals.

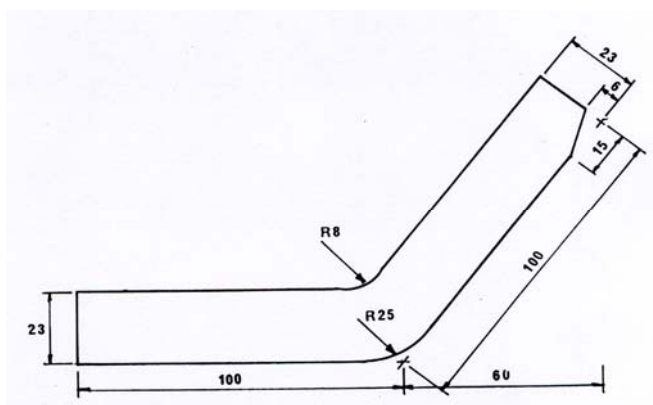
SAMPLES OF MOST SECTIONS AVAILABLE - PLEASE ASK

4-5-38

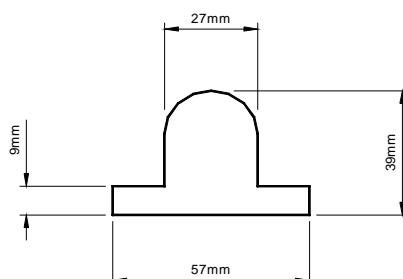
DOCK & LOCK GATE SEALS ANGLE SEALS



Product Code	Material	Standard Length metres	Additional Information
PM 893603	Neoprene 60°	10	MOQ apply.



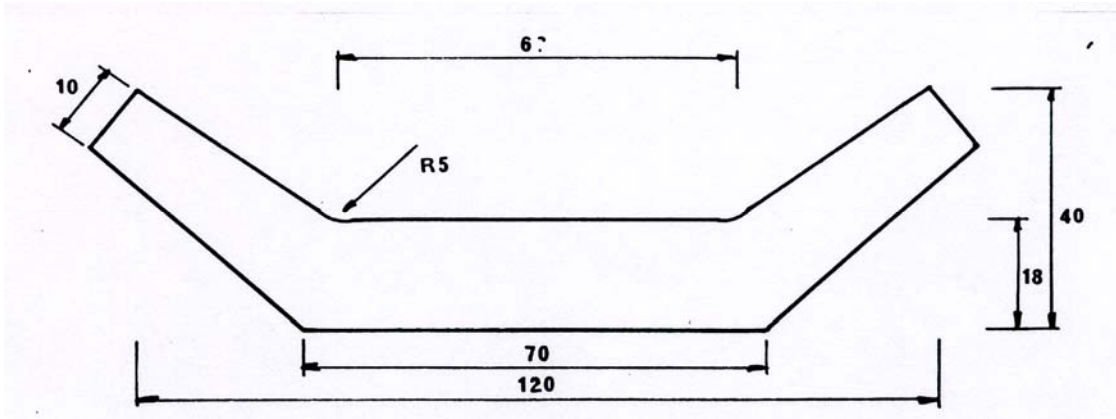
Product Code	Material	Standard Length metres	Additional Information
PM 940602	Neoprene 70°	3.05	Can be joined. Low MOQ.



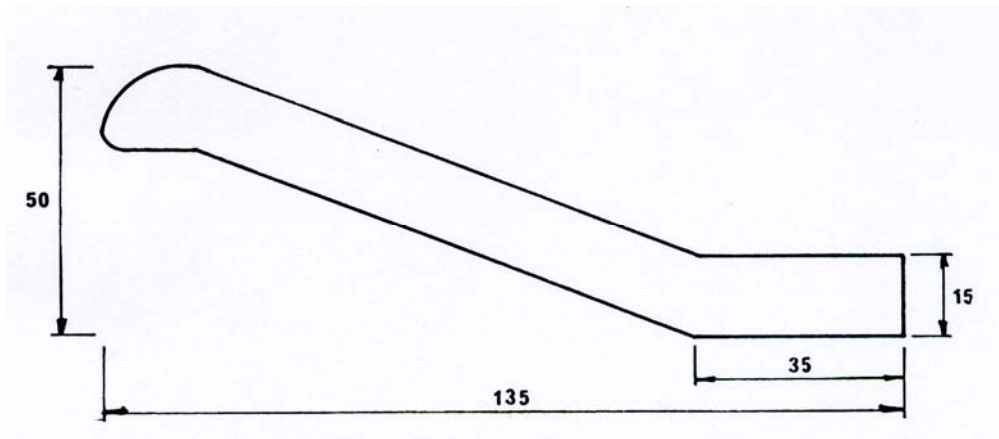
Product Code	Material	Standard Length metres	Additional Information
PM 963402	70° SH EPDM	3	Can be joined for longer lengths

DOCK & LOCK GATE SEALS ANGLE SEALS

4-5-39



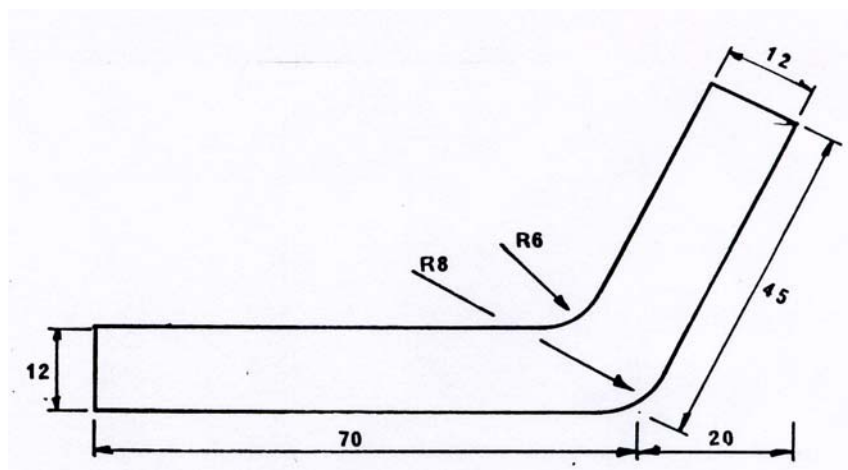
Product Code	Material	Standard Length metres	Additional Information
PM 922603	Neoprene 60°	3.05	Can be joined. Low MOQ.



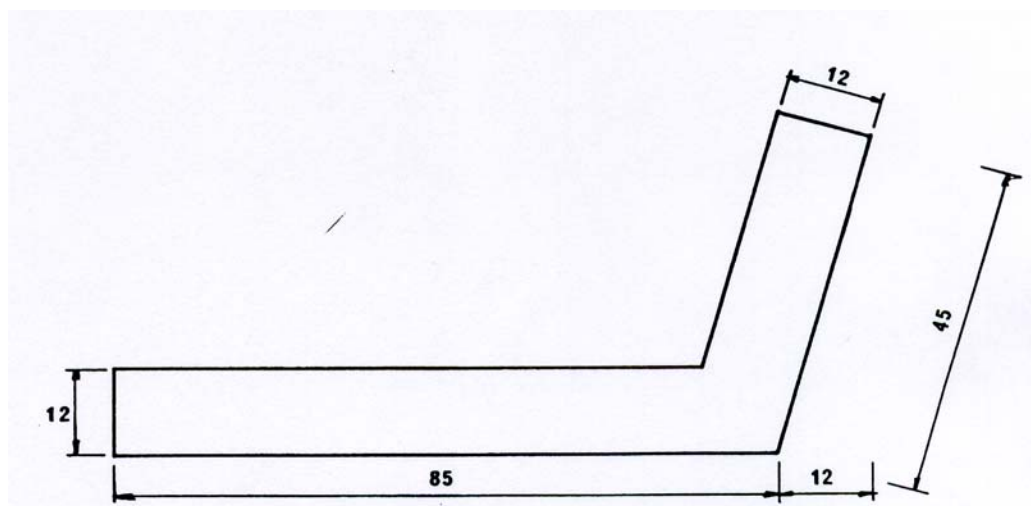
Product Code	Material	Standard Length metres	Additional Information
PM 920406	EPDM 65°	3.05	Low MOQ.

4-5-40

DOCK & LOCK GATE SEALS ANGLE SEALS



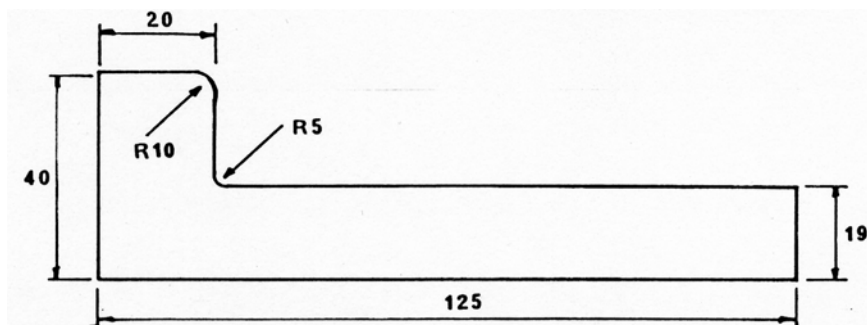
Product Code	Material	Standard Length metres	Additional Information
PM 950502	EPDM 65°	3.05	MOQ apply.



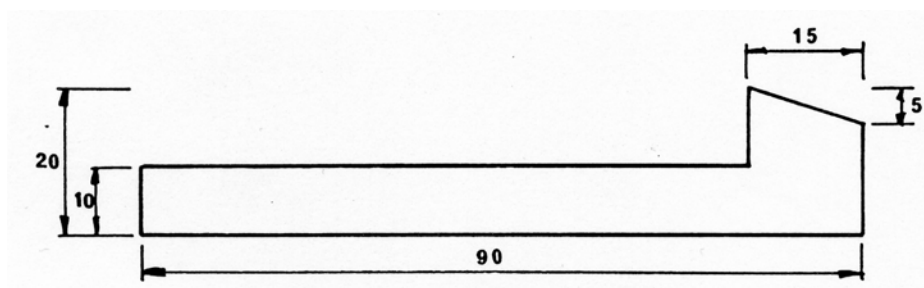
Product Code	Material	Standard Length metres	Additional Information
PM 944801	Neoprene 65°	3.05	Small MOQ apply.

DOCK & LOCK GATE SEALS ANGLE SEALS

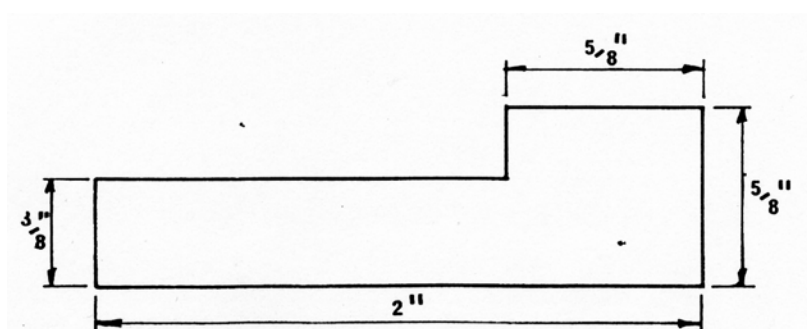
4-5-41



Product Code	Material	Standard Length metres	Additional Information
PM 932705	EPDM 65°/70°	3	MOQ apply.

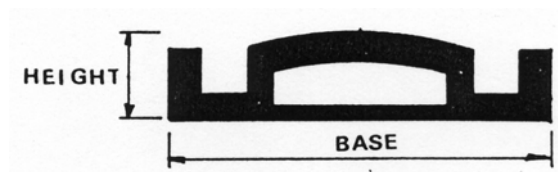


Product Code	Material	Standard Length metres	Additional Information
PM 944803	EPDM 70°	3.05	Small MOQ apply.

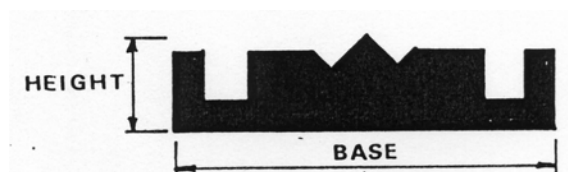


Product Code	Material	Standard Length metres	Additional Information
PM 910 902	EPDM 70°	3.05	Can be joined. Small MOQ apply.

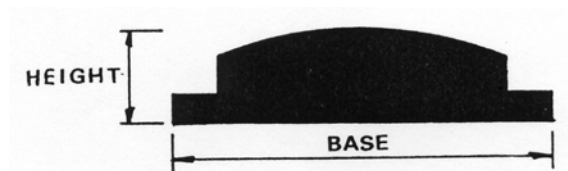
DOCK & LOCK GATE SEALS CAISSON SECTIONS



Product Code	Material	Standard Length metres	Additional Information
J/CS 254/76	SBR 70°	3	Dimensioned drawing available. MOQ apply.



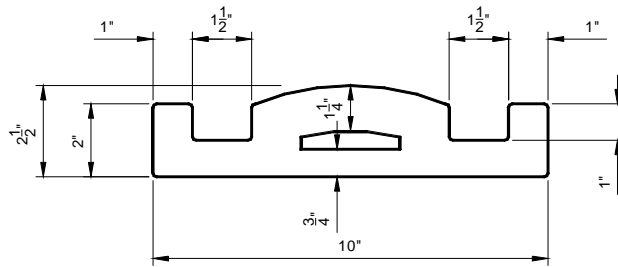
Product Code	Material	Standard Length metres	Additional Information
J/CS 254/51	SBR 70°	3	Dimensioned drawing available. MOQ apply.



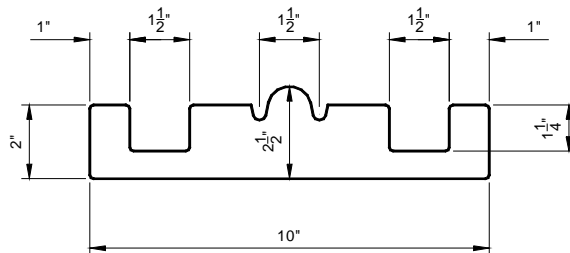
Product Code	Material	Standard Length metres	Additional Information
J/CS 305/51	SBR 70°	3	Dimensioned drawing available. MOQ apply.

DOCK & LOCK GATE SEALS CAISSON SECTIONS

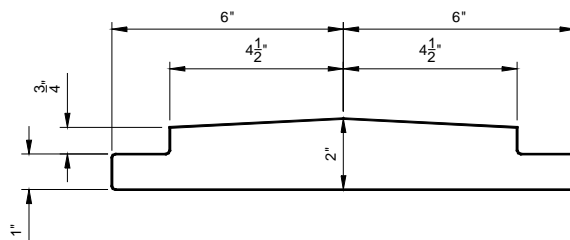
4-5-43



Product Code	Material	Standard Length metres	Additional Information
PM 965204	60/65° SH Neoprene	5	



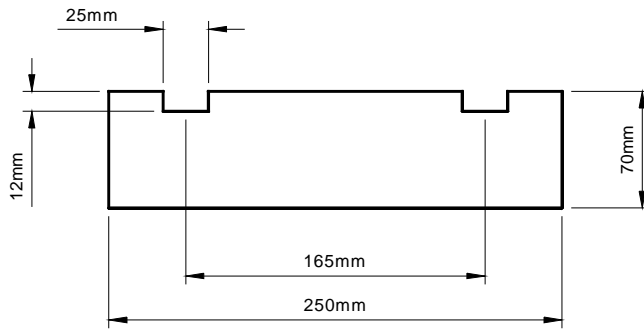
Product Code	Material	Standard Length metres	Additional Information
PM 965205	60/65° SH Neoprene	5	



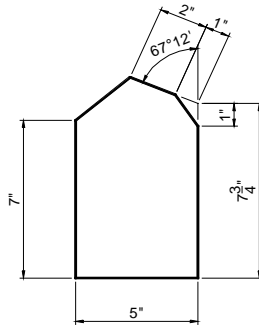
Product Code	Material	Standard Length metres	Additional Information
PM 970903	60/65° SH Neoprene	5	

4-5-44

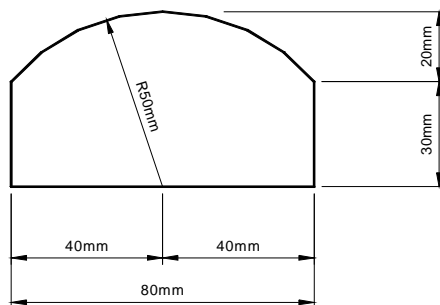
DOCK & LOCK GATE SEALS CAISSON SECTIONS



Product Code	Material	Standard Length metres	Additional Information
PM 972401	80/85° SH Neoprene	3	



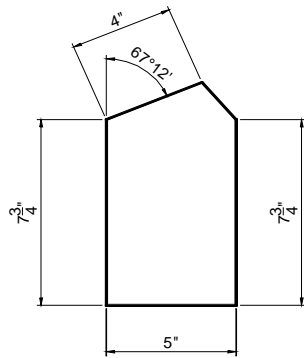
Product Code	Material	Standard Length metres	Additional Information
PM 954104	65/70° Neoprene	5	



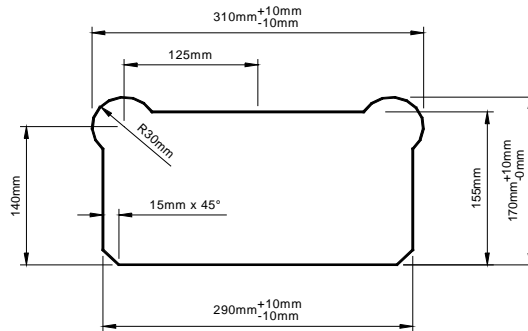
Product Code	Material	Standard Length metres	Additional Information
PM 974401	35/45° SH Natural/Nitrile Blend UV Stable		

DOCK & LOCK GATE SEALS CAISSON SECTIONS

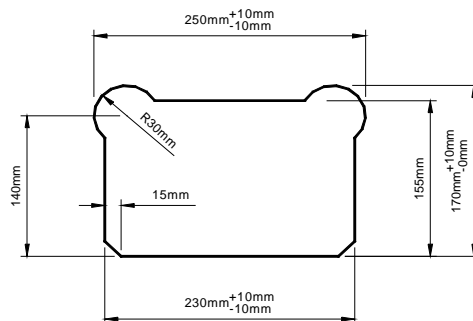
4-5-45



Product Code	Material	Standard Length metres	Additional Information
PM 954105	65/70° Neoprene	3	Can be joined for longer lengths



Product Code	Material	Standard Length metres	Additional Information
PM 982705	70° SH EPDM	5	Can be ground to +, - 2mm tolerance.



Product Code	Material	Standard Length metres	Additional Information
PM 982704	70° SH EPDM	5	Can be ground to +, - 2mm tolerance.

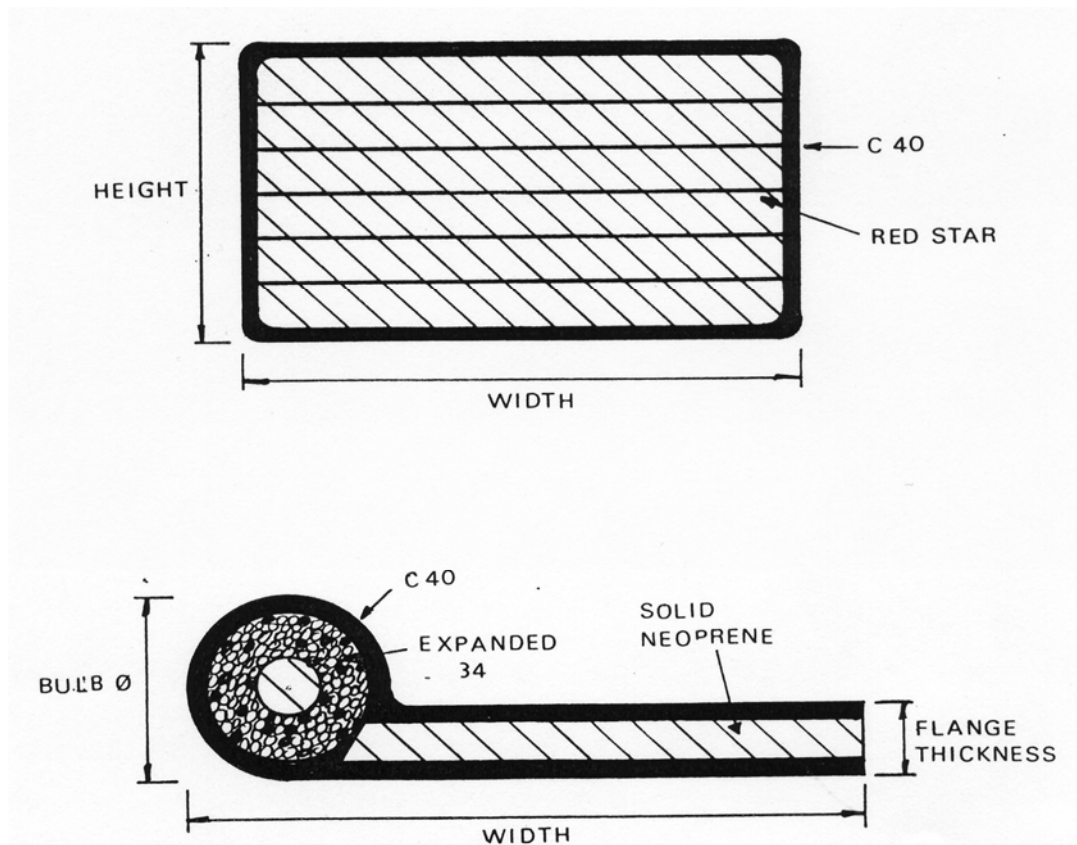
In addition to Extruded rubber Seals - Portmere have many years of "Hand Fabrication" experience which we apply to great effect in the Gate Seal Market.

SEE SEPARATE CATALOGUE FOR FULL DETAILS

Examples:

- a) BS 2752 Grade C40 Neoprene is ozone resistant. It is soft and pliable. Our "cloth finish" type affords every advantage when used with adhesives in the fabrication process.
- b) The natural Rubber Sponge (Code BA34) has a density of 200kg/m^3 and is Closed Cell (Non-intercellular). It has a low compression set which promotes a "high recovery" standard.
- c) RED STAR 35° SHORE rubber is very similar to Linatex. It is extremely tough, durable and elastic with excellent abrasion resistant qualities.

Almost any shape can be hand made to customers requirements but to give an indication of our capabilities, here are 2 designs we currently manufacture.



The extrusions shown in this catalogue are some of the most common used in the sealing of gates whether for sluices, penstock, flap, mitre, sector or radial.

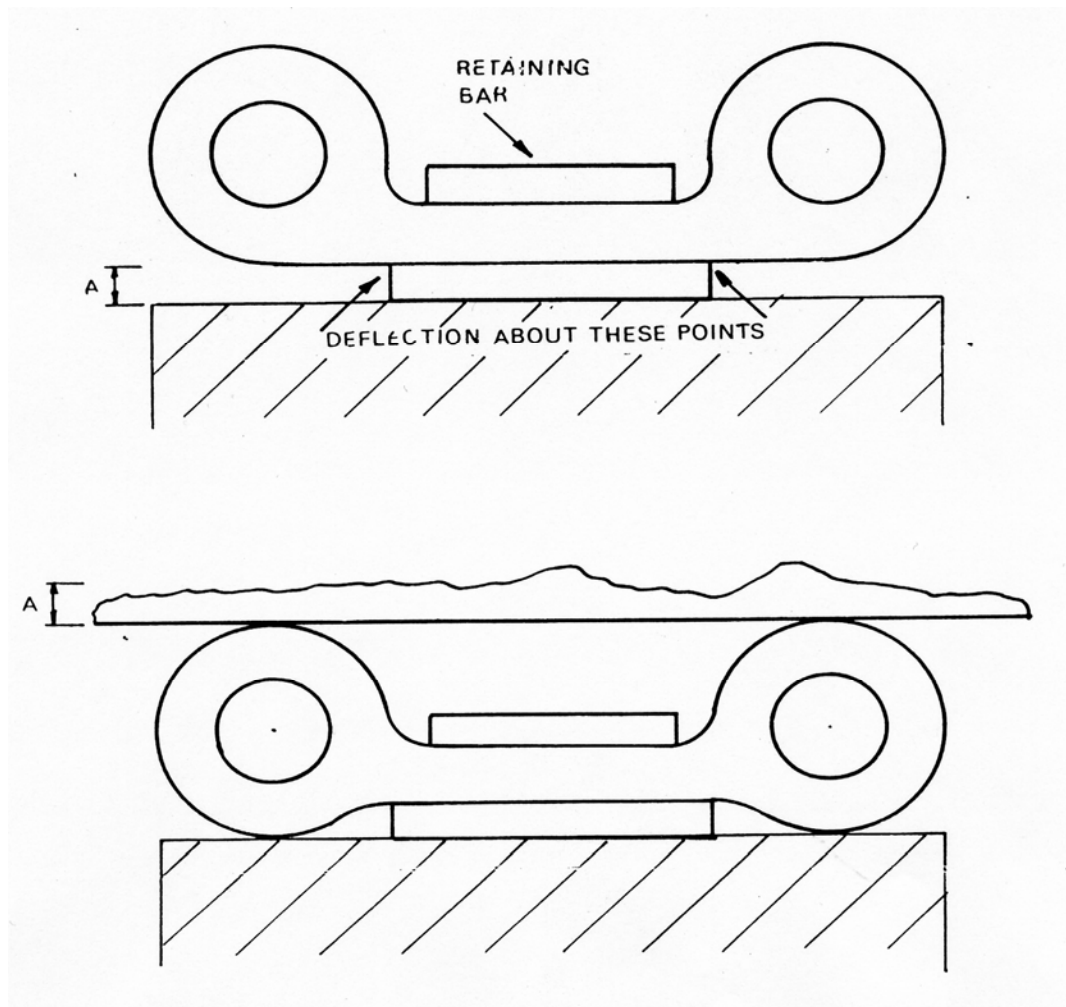
Choosing the correct section for a specific design is something we will be pleased to help with. Call our Technical Department for information.

The sections shown in this catalogue can be modified to suit your particular requirements.
I.e flanges cut to width or ground to thickness.

backing plates adhered for deflection purposes (see drawings). Vulcanised and mitred joints.

We also hand fabricate for softer seals (see page 4-5-20).

End blocks and joints can be made to take one extrusion from vertical, to another in horizontal.

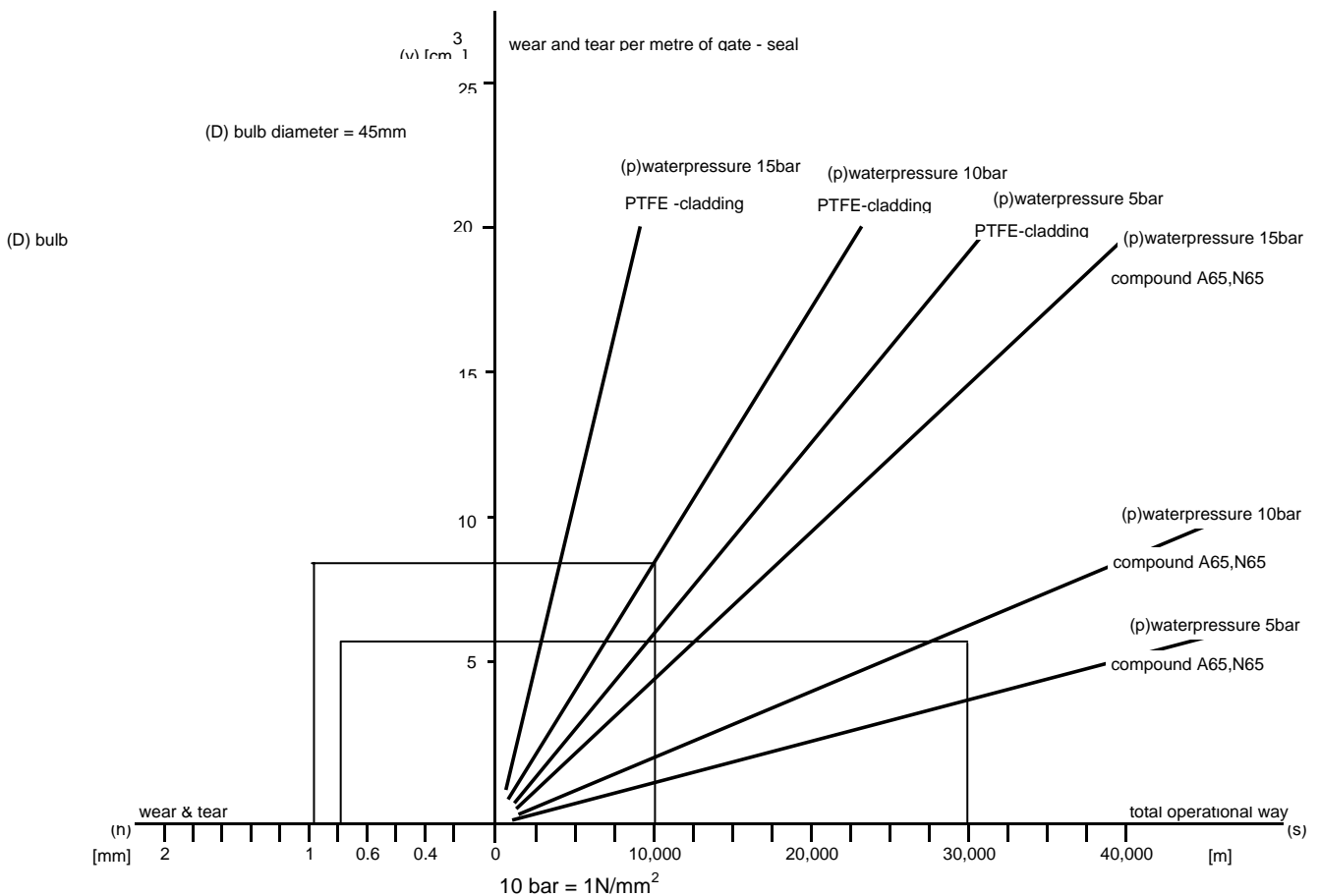


Where high pressures are involved on sliding gates, the friction of rubber on steel can be very large, putting strain on winch motors.

You will see from the graphs on 4-5-23 and 4-5-24 the results that can be achieved by facing the seals with P.T.F.E. This is a service we can offer and we will be pleased to discuss your requirements.

ESTIMATION OF THE WEAR AND TEAR VALUES OF SEALS

4-5-49



Practical tests under the following conditions were carried out to provide the constructing engineer with standard values on the wear and tear of seals, i.e. on their operating time:

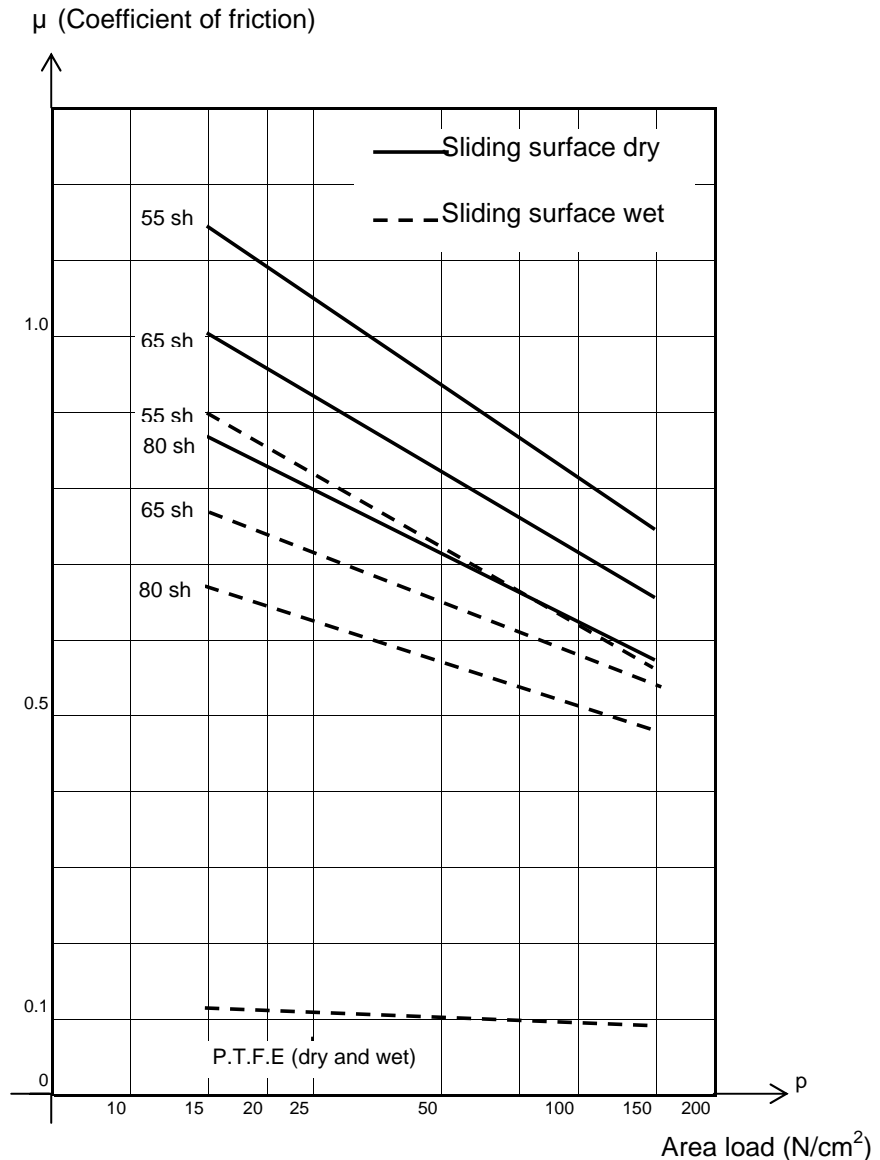
- wet, but without suspended materials
- hardness of seals 65 +/- 5 shore A
- seals with and without PTFE - cladding
- mating surface of the seal: stainless steel
- sliding velocity approx. 1.1 m/min.
- water pressure (pressure of the seal against its mating surface)
5, 10, and 25 bar.

The diagram given above helps to estimate the seals' wear and tear as well as their abrasion on the basis of specific application conditions (water pressure, operational way). Guiding values for minimum pre-deflection and for the thickness of the PTFE - cladding can be derived.

The diagram offers guiding values only, since the wear and tear of seals in practical use is determined by the precision of the steel construction and of the assembling work, the roughness of the seal's mating surface, the type and quantity of suspended materials, etc.

COEFFICIENT OF SLIDING FRICTION FOR GATE SEALS

The diagram shows the coefficient of sliding friction for various different hardnesses of seal. Namely 55°, 65° and 80° + or - 5° Shore A.



The sliding friction coefficients were determined at a sliding speed of 20 cm/min. on a rust-free finish-machined piece of sheet steel of the type used for slide plates with gate seals. At a sliding speed of 40 cm/min. a dry sliding surface raises the coefficient by about 10% and at a sliding speed of 10 cm/min. by about 5%. In the case of a wet sliding surface modification of the sliding speed within the above range results in hardly any change of the coefficient. The size of the area of contact has no influence upon the results.

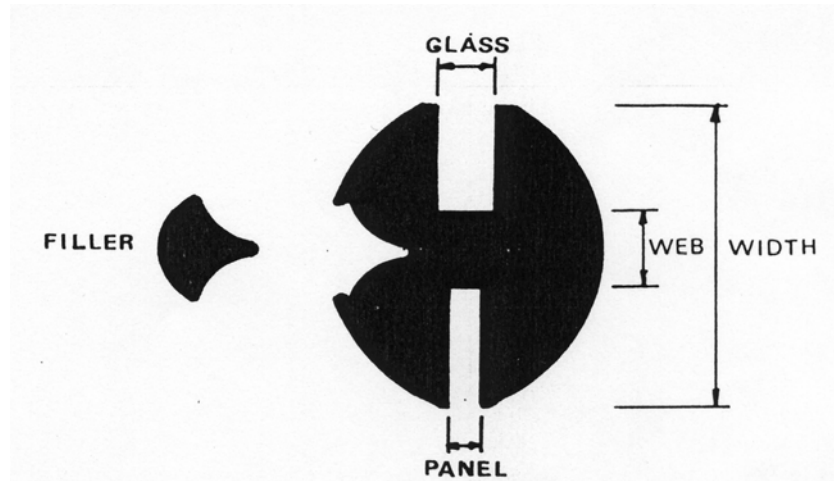
WINDOW SECTIONS

SECTION 6

	cat	sect	pge
Window sections (Claytonrite type) & Filler strip.	4.	6.	1
Windscreen Rubber - Fitting.	4.	6.	2
Titan-fast Edge Trims.	4.	6.	3
Glazing Sections.	4.	6.	4
Miscellaneous Window & Panel Seals.	4.	6.	5

WINDOW SECTIONS (CLAYTONRITE TYPE)

4-6-1



Product Code	Glass	Panel	Webb Thickness	Width	Bend Radius	Additional Information
J/WS 3/3	1/8"	1/8"	1/4"	13/16"	3"	30 METRE COILS
J/WS 5/16	3/16"	1/16"	1/4"	3/4"	4"	ALL SIZES LISTED
J/WS 5/3	3/16"	1/8"	5/16"	1"	4"	ARE STOCK ITEMS
J/WS 5/3 L	3/16"	1/8"			5"	AND CUT LENGTHS
J/WS 5/5	3/16"	3/16"	1/4"	7/8"	4"	ARE AVIALBLE.
J/WS 6/1.6	1/4"	1/16"	1/4"	1"	4"	
J/WS 6/3	1/4"	1/8"	1/4"	7/8"	4"	WE STRONGLY
J/WS 6/3 L	1/4"	1/8"	5/16"	1.1/8"	5"	RECOMMEND A
J/WS 6/5	1/4"	3/16"	1/4"	7/8"	4"	SAMPLE PROIR TO
J/WS 6/6	1/4"	1/4"	5/16"	1.1/16"	5"	PLACING AN ORDER.
J/WS 9/5	3/8"	3/16"	1/4"	7/8"	4"	
J/WS 9/6	3/8"	1/4"			4"	OTHER SIZES
J/WS 12/6	1/2"	1/4"	3/8"	1"	5"	AVAILABLE.

N.B. BEND RADIUS IS THAT WHICH RUBBER WILL BEND WITHOUT KINKING

FILLER SECTIONS

Product Code	Description	Colour	Additional Information
J/SB 241	Standard	Black	Cut lengths available
J/SW 242	Standard	White	Cut lengths available
J/SC 382	Standard	Chrome	Cut lengths available

GLAZING TOOLS ARE AVAILABLE WHICH HELP EASE THE INSERTION OF THE GLASS OR PERSPEX PANELS AND FILLER STRIP

- Description:** Claytonrite Window Sections consist of one channel for body panel, one channel for glass and one "V" shaped for the separate 'filler strip'.
- Applications:** Mainly used for holding glass or perspex windows in position. It allows for relatively easy replacement of damaged windows.
- Hints on Fitting:**
- * Cut at the weather strip and filler slightly longer than required (approx 1")
 - * Start fitting the weather strip at the centre of the top pane, push fully home, all the way round, trim the length.
 - * Insert the glass from the bottom and work around to the top. The last section may require the use of a glazing tool to stretch open the channel for the glass.
 - * Finally, insert the filler strip (starting away from the top joint), using the glazing tool where necessary.

TITAN-FAST EDGE TRIMS

4-6-3



Product Code	To Fit Panels	Standard Length metres	Additional Information
TFSS/B	1.5 to 5	50	Black. Cut lengths available.
TFSS/W	1.5 to 5	50	White. Cut lengths available.



Product Code	To Fit Panels	Standard Length metres	Additional Information
TFSS/B	1.5 to 5	50	Cut lengths available.



Product Code	To Fit Panels	Standard Length metres	Additional Information
TFTS/B	1.5 to 5	50	Cut lengths available.

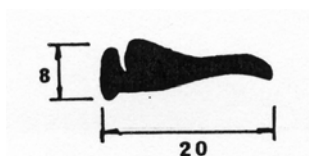


Product Code	To Fit Panels	Standard Length metres	Additional Information
TFLS/B	1.5 to 5	50	Cut lengths available.

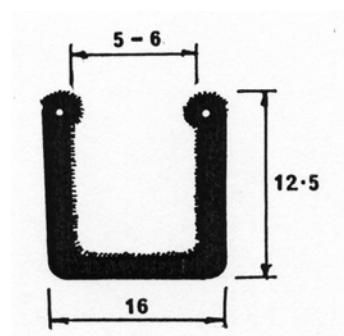
MANY OTHER SIZES AND COLOURS AVAILABLE AT M.O.Q. - PLEASE ENQUIRE

4-6-4

GLAZING SECTIONS

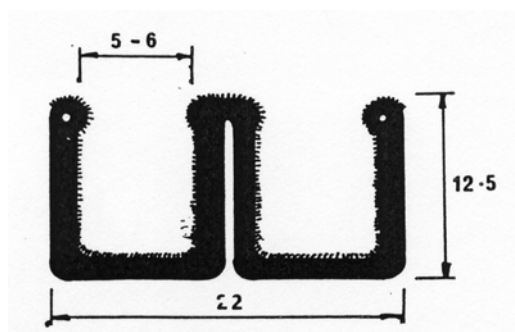


Product Code	Material	Standard Length metres	Additional Information
J/1567/20	SBR	50	Cut lengths available.



SLIDING WINDOW CHANNELS

Product Code	Description	Standard Length metres	Additional Information
J/SWC	Flock lined	2	Metal insert for rigidity. Full coils only



DOUBLE SLIDING WINDOW CHANNELS

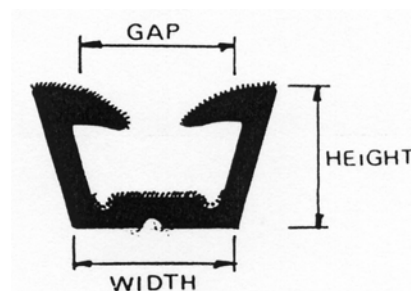
Product Code	To Fit Panels	Standard Length metres	Additional Information
J/DSW/6	Flock lined	2	Metal insert for rigidity. Full coils only.

PLEASE ASK FOR SAMPLES

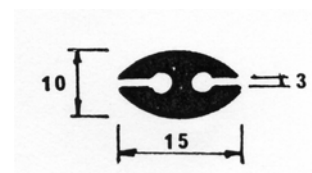
MISCELLANEOUS WINDOW & PANEL SEALS

4-6-5

FLOCK LINED CHANNEL



Product Code	Gap MM	Height MM	Width MM	Standard Length metres	Additional Information
J/FCS/5	5	10	12	15	Full coils only.
J/GCL/6	6	11	14	15	Full coils only



Product Code	Standard coil Length in metres	Material	Additional Information
J/1123/3	50	SBR	Cut lengths available.



Product Code	Standard coil Length in metres	Material	Additional Information
J/254/3	50	SBR	STOCK ITEMS
J/254/4.5	50	SBR	CUT COILS
J/254/6	50	SBR	AVAILABLE

TECHNICAL DATA

SECTION 7

	cat	sect	pge
Rubber Extrusion Tolerances.	4.	7.	1
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RUBBER EXTRUSION TOLERANCES

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BS 3734

TABLE 2 - Tolerances on cross sectional dimensions.
Values in millimetres and inches.

	Nominal Dimension		Class E1	Class E2	Class E3
	above	up to	±	±	±
MM	0.000	2.500	0.200	0.350	0.500
INS	0.000	0.098	0.008	0.014	0.020
MM	2.500	4.000	0.250	0.400	0.700
INS	0.098	0.158	0.100	0.016	0.028
MM	4.000	6.300	0.350	0.500	0.800
INS	0.158	0.248	0.013	0.020	0.031
MM	6.300	10.000	0.400	0.700	1.000
INS	0.248	0.394	0.016	0.028	0.040
MM	10.000	16.000	0.500	0.800	1.300
INS	0.400	0.630	0.020	0.031	0.051
MM	16.000	25.000	0.700	1.000	1.600
INS	0.630	0.984	0.028	0.400	0.063
MM	25.000	40.000	0.800	1.300	2.000
INS	0.984	1.575	0.031	0.051	0.080
MM	40.000	63.000	-	1.600	2.500
INS	1.575	2.480	-	0.063	0.098
MM	63.000	100.000	-	2.000	3.200
INS	2.480	3.937	-	0.080	0.126

All Portmere Extrusions are to E2 Tolerances unless otherwise stated for sizes up to 100mm.

Above this size - please enquire.

PROPERTIES OF RUBBER USED IN THE MANUFACTURE OF EXTRUSIONS

1 STYRENE BUTADIENE RUBBER - SBR.

Good physical properties, including abrasion resistance. Not resistant to oils and fuels and is not U/V stable. Hardness available 60° - 70° Shore A.
Temperature range -55°C to +85°C.

2 NATURAL RUBBER - NR.

Excellent physical properties including abrasion and low temperature resistance. Not resistant to oils and fuels and not U/V stable. Hardness available 50° - 80° Shore A.
Temperature range -60°C to +75°C.

3 CHLOROPRENE RUBBER - CR.

Excellent U/V resistance and, flame retarding. Moderate resistance to oil and chemicals. Hardness available 50° - 80° Shore A.
Temperature range -40°C to +95°C.

4 ACRYLONITRILEBUTADIENE RUBBER - NBR.

Excellent resistance to petroleum based fluids. Good physical properties. Not U/V stable. Hardness available 50° - 80° Shore A.
Temperature range -20°C to +100°C.

5 ETHYLENE PROPYLENE DIENE MONOMER - EPDM.

Excellent resistance to steam, aging, U/V and chemicals. Not resistant to oil and fuels. Hardness available 50° - 80° Shore A.
Temperature range -50°C to +130°C.

PROPERTIES OF RUBBER USED IN THE MANUFACTURE OF EXTRUSIONS

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6 VITON - FPM.

Very good chemical and high temperature resistance. Excellent resistance to oil and fuels including aromatics. Hardness available 70° - 80° Shore A. Temperature range -20°C to +205°C.

7 SILICONE - SI.

Excellent resistance to temperature, chemical and U/V. Poor resistance to fuels. Hardness available 30° - 70° Shore A. Temperature range -60°C to +205°C.

8 PVC

Excellent chemical, corrosion and U/V resistance. Temperature range -20°C to +55°C.

9 POLYURETHANE - PU.

Excellent chemical, fuel, temperature and abrasion resistance. Highly elastic and very flexible. Various hardnesses available. Temperature range -30°C to +70°C.

10 THERMOPLASTIC RUBBER - TPR.

Excellent U/V and temperature resistant. Good resistance against fuels and oils. Various hardnesses available. Temperature range -20°C to +100°C.

1 AROMATIC SOLVENTS

Benzene, cumene, p-cumene, naphthalene, toluene, xylene, cresol, styrene, cyclohexane and combinations.

2 ALIPHATIC SOLVENTS

Propane, butane, pentane, hexane, heptane, dipentene, tripropylene.

3 HALOGENOUS SOLVENTS

Chloroform, dichlorobenzene, dichloroethylene, methylenebromide, methylene chloride, benzyl chloride, carbon tetrachloride, trichloroethylene, carbon disulphide, turpentine, perchloroethylene, dichloroethane.

4 KETONIC SOLVENTS

Acetone, methyl ketone, isobutyl ketone, methyl ethyl ketone, methyl isobutyl ketone.

5 ESTERS SOLVENTS

Butyl acetate, methyl acetate, amyl acetate, isobutyl acetate.

6 ALCOHOLS

Methyl (wood spirits), ethyl, butyl, amyl, isopropyl, decyl, isobutyl, diacetone, ethyl, hexanol.

7 AMINES

Aniline, ethylene diamine, diethanol amine, triethanolamine, dimethyl amine, monoethanolamine.

CHEMICAL RESISTANCE CHART

(Reprinted from RMA Hose Handbook IP-2 Fourth Edition)

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Resistance -Rating.

A Good
F Fair
C Depends on Condition
X Unsuitable
T No data - Normally likely to be satisfactory

Elastomers

NR Isoprene, natural
IR Isoprene, synthetic
SBR Styrene-butadiene
CR Chloroprene
NBR Acrylonitrile butadiene.
CSM Chloro-sulfonyl-polyethylene

EPDM Ethylene propylene diene monomer
FPM Fluorocarbon rubber
XLPE Cross-linked polyethylene

Material		Most Commonly Used Elastomers					Special Elastomers		
		NR or	SBR	CR	NBR	CSM	EPDM	FPM	XLPE
		IR	[Maximum Temperature +38°C (+100°F) Unless Otherwise Specified].						
Acetic Acid, dilute, 10%		F	C	C	C	C	A	X	A
Glacial		C	X	X	X	C	F	X	A
Anhydride		C	C	F	F	A	T	X	A
Acetone		A	A	F	X	F	A	X	A
Acetylene		A	A	F	A	F	A	T	A
Air	+ 65°C (150°F)	A	A	A	A	A	A		A
Aluminium Chloride	+ 65°C (150°F)	A	A	A	A	A	A	A	A
Aluminium Fluoride	+ 65°C (150°F)	A	A	A	A	A	A		A
Aluminium Sulphate	+ 65°C (150°F)	A	A	A	A	A	A	T	A
Alums	+ 65°C (150°F)	A	A	A	A	A	A		A
Ammonia gas		A	A	A	A	A	A	X	A
Ammonium Chloride		A	A	A	A	A	A	T	A
Ammonium Hydroxide		C	F	F	F	A	A	A	A
Ammonium Nitrate		A	A	A	A	A	A		A
Ammonium Phosphate, monobasic		A	A	A	A	A	A		A
dibasic		A	A	A	A	A	A		A
tribasic		A	A	A	A	A	A		A
Ammonium sulphate		A	A	A	A	A	A	T	A
Amyl acetate		F	X	X	X	X	A	X	A
Amyl alcohol		A	A	A	A	A	A	A	A
Aniline, analine oil		X	X	C	X	X	C	A	A
Aniline dyes		F	F	F	F	F	C		T
Asphalt		X	X	F	F	F	X	A	X
Barium chloride	+ 65°C (150°F)	A	A	A	A	A	A		A
Barium Hydorxide	+ 65°C (150°F)	A	A	A	A	A	A	T	A
Burium sulphide	+ 65°C (150°F)	A	A	A	A	A	A		A
Beer		A	A	A	A	A	A		A
Beet sugar, liquors		A	A	A	A	A	A		A
Benzene, Benzol		X	X	X	C	X	X	A	A
Benzine, petroleum ether and benzine, petroleum naptha		X	X	C	F	F	X		A
Black sulphate liquor		A	A	A	A	A	A		A
Blast furnace gas		C	C	A	C	C	C		A
Borax		A	A	A	A	A	A	T	A
Boric acid		A	A	A	A	A	A		A
Bromine		X	X	X	X	C	X	A	F

Material	NR or IR	Most Commonly Used Elastomers					Special Elastomers	
		SBR	CR	NBR	CSM	EPDM	FPM	XLPE
		[Maximum Temperature +38°C (+100°F) Unless Otherwise Specified].						
Butane	X	X	F	A	A	X	T	A
Butyl acetate	C	X	X	X	X	F	X	A
Butyl alcohol, butanol	A	A	A	A	A	A	A	A
Calcium bisulphate	C	C	A	A	A	F	T	A
Calcium chloride	A	A	A	A	A	A	T	A
Calcium hydroxide	A	A	A	A	A	A	T	A
Calcium hypochlorite	X	X	X	X	F	A	T	F
Caliche liquors	A	A	A	A	A	A		A
Cane sugar liquors	A	A	A	A	A	A		A
Carbolic acid, phenol	C	C	C	C	C	A		A
Carbon dioxide, dry/wet	A	A	A	A	A	A		A
Carbon disulphide	X	X	X	X	X	X	A	C
Carbon monoxide + 65°C (150°F)	C	C	C	C	F	C	T	A
Carbon tetrachloride	X	X	X	C	X	X	A	A
Castor oil	A	A	A	A	A	A	T	A
Cellosolve acetate	F	F	X	X		A	C	A
China wood oil, tung oil	X	X	F	A	F	A	C	A
Chlorine, dry/wet	X	X	X	X	X	X	A	F
Chlorinated solvents	X	X	X	X	X	X		A
Chloroacetic acid	X	C	C	C	A	T	X	A
Chlorosulfonic acid	X	X	C	C	X	X	X	F
Chromic acid	X	X	X	X	A	T	T	F
Citric acid	A	A	A	F	A	A	T	A
Coke oven gas	C	C	C	C	A		X	C
Copper chloride + 65°C (150°F)	C	A	F	A	F	A	T	A
Copper sulphate + 65°C (150°F)	C	A	A	A	A	A	T	A
Corn oil	X	C	F	A	F	C		A
Cottonseed oil	X	C	F	A	F	C	A	A
Creosote, coal tar	X	X	F	A	F	X	F	A
wood	X	X	F	A		X	F	A
Creosols, cresylic acid	C	X	X	C	F	X		A
Ethers	C	C	C	C	F	X	X	A
Ethyl acetate	F	X	X	X	X	F	X	A
Ethyl alcohol	A	A	A	A	A	A	A	A
Ethyl cellulose	F	F	F	F		F		A
Ethyl chloride	A	F	F	X	F	A	F	F
Ethylene glycol	A	A	A	A	A	A	A	A
Ferric chloride + 65°C (150°F)	A	A	A	A	A	A	T	A
Ferric sulphate + 65°C (150°F)	A	A	A	A	A	A		A
Formaldehyde	A	A	C	A	A	A	A	A
Formic acid	A	A	C	F	A	A	X	F
Freon # 12 (liquid)	X	X	A	F		F	A	T
Fuel oil	X	X	F	A	F	X	T	A
Furfural	X	C	C	X	F	C	X	A
Gasoline non-leaded	X	X	X	A	X	X	A	F
Gasoline reg. leaded	X	X	X	A	X	X	A	F
Hi-test leaded	X	X	X	A	X	X	A	F

CHEMICAL RESISTANCE CHART

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Material	Most Commonly Used Elastomers						Special Elastomers	
	NR or	SBR	CR	NBR	CSM	EPDM	FPM	XLPE
	IR	[Maximum Temperature +38°C (+100°F) Unless Otherwise Specified].						
Gelatin	A	A	A	A	A	A		A
Glucose	A	A	A	A	A	A		A
Glue	F	F	A	A	A	A	T	A
Glycerine, glycerol	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A		A
Hydraulic fluids								
Petroleum	X	X	A	A	F	X		
Phosphate ester alkyl	X	X	C	X	X	A		
Phosphate ester aryl	X	X	X	X	X	C		
Phosphate ester blends	X	X	X	X	X	C		
Silicate ester	X	X	C	C	C	X		
Water-glycol	A	A	A	A	A	A		
Hydrobromic acid	C	X	C	C	A	A		T
Hydrochloric acid	A	X	X	X	C	C	A	A
Hydrocyanic acid	F	F	C	F	A	C	T	A
Hydrofluoric acid	X	X	X	X	A	C	A	A
Hydrofluosilicic acid	A	F	F	F		A		T
Hydrogen gas	F	F	A	A		A	T	A
Hydrogen peroxide	X	X	C	C	C	C	A	T
Hydrogen sulphide, dry	C	C	F	C	A	A	T	A
wet	C	C	F	C	A	A		A
Kerosene	X	X	F	A	C	X	A	A
Lacquers	X	X	X	X	X	X		F
Lacquers solvents	X	X	X	X	X	X	X	F
Lactic acid	C	C	C	C	A	C	T	A
Linseed oil	C	X	F	A	A	A	A	A
Lubricating oil, crude	X	X	F	A	C	X	A	A
refined	X	X	F	A	C	X		A
Magnesium chloride								
+ 65°C (150°F)	A	A	A	A	A	A	T	A
Magnesium hydroxide								
+ 65°C (150°F)	A	F	F	F	A	A	T	A
Magnesium sulphate								
+ 65°C (150°F)	A	A	A	A	A	A		A
Mercuric chloride	F	F	C	F	A	A	T	A
Mercury	A	A	A	A	A	A	T	A
Methyl alcohol, methanol	A	A	A	A	A	A	C	A
Methyl chloride	C	C	C	C	X	C		F
Methyl ethyl Ketone	X	X	X	X	C	A	X	A
Methyl isopropyl ketone	X	X	X	X	C	C	X	A
Milk	C	C	F	F	A	A		A
Mineral oils	X	C	F	A	F	X	T	A
Natural gas	C	C	A	A	A	X		A
Nickel chloride								
+ 65°C (150°F)	A	A	A	A	A	A		A
Nickel sulphate								
+ 65°C (150°F)	A	A	A	A	A	A		A
Nitric acid, crude	X	X	X	X	C	X		F
diluted 10%	X	X	C	X	A	C	C	T
concentrated 70%	X	X	X	X	C	X	C	F
Nitrobenzene	X	X	X	X	X	X	F	A
Oleic acid	X	F	C	F	F	F	T	A

Material	NR or IR	Most Commonly Used Elastomers					Special Elastomers	
		SBR	CR	NBR	CSM	EPDM	FPM	XLPE
		[Maximum Temperature +38°C (+100°F) Unless Otherwise Specified].						
Oleum spirits	X	C	C	C		T	C	T
Oxalic acid	F	C	F	F	A	A		A
Oxygene	X	C	A	C		A		A
Palmitic acid	X	F	A	A	F	F	T	A
Perchlorethylene	X	X	X	C	X	X	A	A
Petroleum oils and crude	+ 95°C (=200°F)	X	X	F	A	C	X	A
Phosphoric acid, crude	A	C	C	C	A	C		A
pure 45%	A	C	C	C	A	C	A	A
Picric acid, molten	C	C	C	C		T		T
water solution	A	C	F	F	A	T	T	T
Potassium chloride	A	A	A	A	A	A		A
Potassium cyanide	A	A	A	A	A	A		A
Potassium hydroxide	F	F	C	C	A	A	T	A
Potassium sulphate	A	A	A	A	A	A		A
Propane	X	X	F	A	F	X		A
Sewage	C	C	F	A	A	C		A
Soap solutions	A	A	F	A	A	A	T	A
Soda ash, sodium carbonate	A	A	A	A	A	A		A
Sodium bicarbonate, baking soda	A	A	A	A	A	A		A
Sodium bisulphate	A	A	A	A	A	A		A
Sodium chloride	A	A	A	A	A	A		A
Sodium cyanide	A	A	A	A	A	A		A
Sodium hydroxide	F	F	C	C	C	A	A	A
Sodium hypochlorite	X	X	X	X	F	A	T	F
Sodium metaphosphate	A	A	C	A	F	A		A
Sodium nitrate	C	C	C	C	A	A		A
Sodium perborate	C	C	C	C	A	A		A
Sodium peroxide	C	C	C	C	A	A	T	A
Sodium phosphate, monobasic	A	F	C	F	A	A		A
dibasic	A	F	C	F	A	A		A
tribasic	A	F	C	F	A	A		A
Sodium silicate	A	A	A	A	A	A		A
Sodium sulphate	A	A	A	A	A	A		A
Sodium sulphide	A	A	A	A	A	A		A
Sodium thiosulphate "hypo"	A	A	A	A	A	A		A
Soyabean oil	X	C	F	A	A	A	A	A
Stannic chloride	A	A	A	A	A	F	T	A
Steam	+ 230°C (+450°F)	C	C	C	C	C	F	X
Stearic acid	X	X	C	F	C	F	T	A
Sulphur	F	F	A	F	A	A		C
Sulphur chloride	X	X	C	C	A	X		A
Sulphur dioxide, dry	C	C	C	C	A	C	T	T
Sulphur trioxide, dry	X	C	C	C	F	C	T	T
Sulphuric acid, 10%	A	A	A	A	A	A	A	A
11%-75%	C	C	C	C	A	C	T	A
76%-95%	X	X	X	X	A	X	A	A
fuming	X	X	X	X	X	X	A	X
Sulphurous acid	C	C	C	C	A	C	T	A

CHEMICAL RESISTANCE CHART

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Material	Most Commonly Used Elastomers						Special Elastomers	
	NR or IR	SBR	CR	NBR	CSM	EPDM	FPM	XLPE
	[Maximum Temperature +38°C (+100°F) Unless Otherwise Specified].							
Tannic acid	A	C	A	C	A	A	T	A
Tar	X	X	C	C	C	X		X
Tartaric acid	A	C	C	C	A	F	T	A
Touene, toluol	X	X	X	C	X	X	A	A
Trichloethylene	X	X	X	X	X	X	A	A
Turpentine	X	X	X	F	X	X	A	A
Vinegar	C	C	C	C	A	A		A
Water, acid mine	A	A	C	A	A	A	A	A
Water, fresh	A	A	C	A	A	A		A
distilled	A	A	C	A	A	A		A
Whisky and wines	A	A	A	C	A	A		A
Xylene, xylol	X	X	X	C	X	X	A	A
Zinc chloride	C	C	C	C	A	A	T	A
Zinc sulphate	A	A	A	A	A	A		A