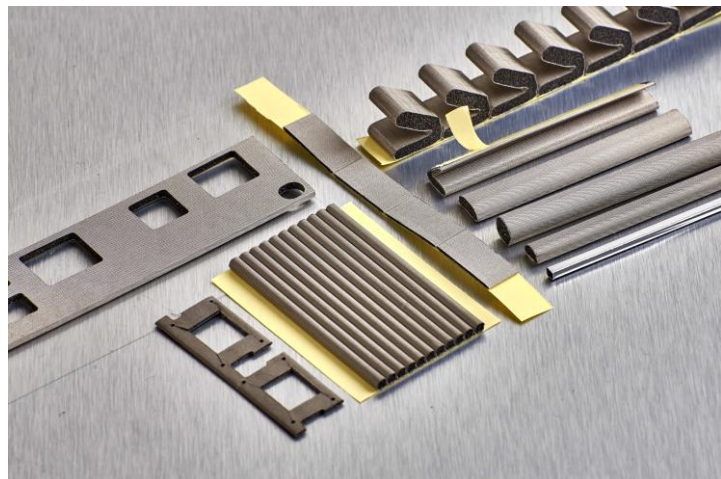


+44 (0)1706 758811

# Conductive Fabric Over Foam Gaskets

EMC and Thermal Management  
Solutions



## Fothershield

UNIT 3 GORRELLS WAY, TRANSPENNINE TRADING ESTATE,  
ROCHDALE, LANCS, UK. OL11 2PX

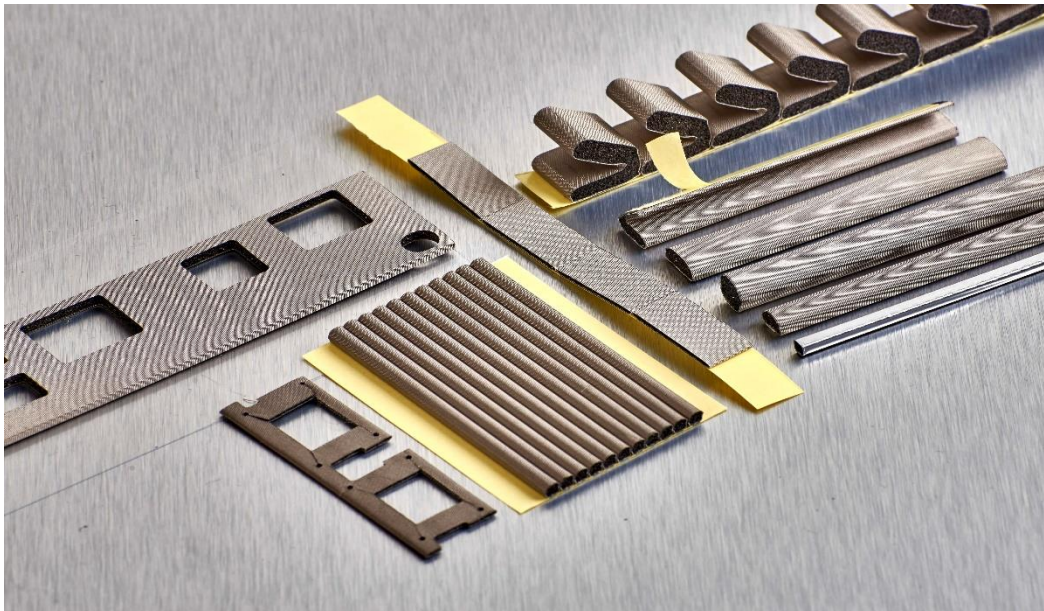
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**W** [www.fothershield.co.uk](http://www.fothershield.co.uk)

## CONDUCTIVE FABRIC OVER FOAM GASKETS

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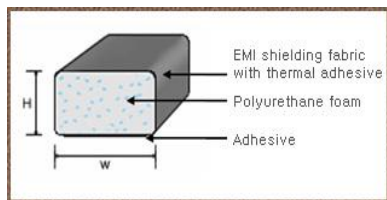


The conductive fabric over foam gaskets are made from a taffeta or rip-stop polyester fabric coated with a base layer of highly conductive copper, topped with a nickel coating for corrosion resistance. The fabric is then wrapped over a polyurethane sponge core. Giving a very high degree of electromagnetic interference (EMI) shielding, the fabric gaskets are perfect for low compression applications, they are self-terminating and can easily be cut to size.

The standard product has self-adhesive backing for quick and easy fixing. Corners can be butt joined or mitred, with no need to bond or seal the cut ends. The gaskets also give dust and moisture protection and are a low cost option when compared with a pure metal gasket.

Aluminium foil wrapped gaskets are also available as an economical choice.

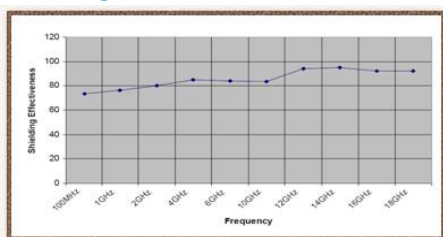
Fothershield has one of the most comprehensive ranges of conductive fabric over foam gaskets available, and are able to offer custom shapes and sizes to satisfy specific customer drawings.



### Properties

- Surface resistivity: nickel/copper  $<0.07 \text{ ohms}^2$
- Temperature range:  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$  (typical)
- Abrasion resistance: excellent
- Compression set:  $<10\%$  (typical)
- Halogen free

### Shielding Effectiveness



### Tolerances

Up to 16mm +/- 0.8mm

Up to 48mm +/- 1.5mm

Up to 100mm +/- 2.0mm

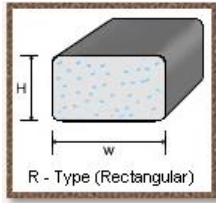
### How to Order

Series	Part Number	Shape	Core	Fabric
FS	XXXXXX	R = Rectangle	1 = Polyurethane (standard)	1 = Nickel Copper Ripstop
		D = D Shape	2 = UL 94V-0 rating	2 = Nickel Copper Taffeta
		F = Flat		
		I = I/O (Input/Output)Wide		
		C = C Fold		
		L = L Fold		
		K = Knife Edge		
		P = P Shape		
		DD = Double D		
		RO = Round		
		T = T Shape		
		V = V Shape		
		FL = Folding Leaf		
		AL = Aluminium Wrapped		

*For example: FS-040020R-2-2-1M = Gasket 4.0mm width x 2.0mm height, Rectangular shape, 2 = (UL 94V-0 rating) 2 = Nickel Copper Taffeta Fabric), 1M length. Minimum order quantities may be applied on certain parts*

Standard length 1 metre. Other sizes, shapes, or ready to mount finished gaskets are available. Please send your technical drawing for consideration.

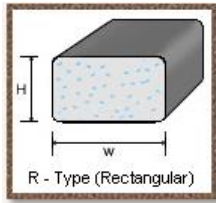
## RECTANGLE



Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-020020R	2.0	2.0	FS-050055R	5.0	5.5
FS-020030R	2.0	3.0	FS-050060R	5.0	6.0
FS-030020R	3.0	2.0	FS-050070R	5.0	7.0
FS-030023R	3.0	2.3	FS-054032R	5.4	3.2
FS-035035R	3.5	3.5	FS-054054R	5.4	5.4
FS-040020R	4.0	2.0	FS-055040R	5.5	4.0
FS-040022R	4.0	2.2	FS-055050R	5.5	5.0
FS-040030R	4.0	3.0	FS-055055R	5.5	5.5
FS-040040R	4.0	4.0	FS-058058R	5.8	5.8
FS-040045R	4.0	4.5	FS-060020R	6.0	2.0
FS-045020R	4.5	2.0	FS-060023R	6.0	2.3
FS-048032R	4.8	3.2	FS-060025R	6.0	2.5
FS-050020R	5.0	2.0	FS-060030R	6.0	3.0
FS-050025R	5.0	2.5	FS-060032R	6.0	3.2
FS-050030R	5.0	3.0	FS-060040R	6.0	4.0
FS-050035R	5.0	3.5	FS-060050R	6.0	5.0
FS-050040R	5.0	4.0	FS-060055R	6.0	5.5
FS-050045R	5.0	4.5	FS-060060R	6.0	6.0
FS-050050R	5.0	5.0	FS-060070R	6.0	7.0

Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-060080R	6.0	8.0	FS-080025R	8.0	2.5
FS-060100R	6.0	10.0	FS-080030R	8.0	3.0
FS-064032R	6.4	3.2	FS-080035R	8.0	3.5
FS-064040R	6.4	4.0	FS-080040R	8.0	4.0
FS-064048R	6.4	4.8	FS-080050R	8.0	5.0
FS-064064R	6.4	6.4	FS-080060R	8.0	6.0
FS-064094R	6.4	9.4	FS-080080R	8.0	8.0
FS-065040R	6.5	4.0	FS-080100R	8.0	10.0
FS-065065R	6.5	6.5	FS-080120R	8.0	12.0
FS-066030R	6.6	3.0	FS-080130R	8.0	13.0
FS-067025R	6.7	2.5	FS-080150R	8.0	15.0
FS-070020R	7.0	2.0	FS-085085R	8.5	8.5
FS-070030R	7.0	3.0	FS-090020R	9.0	2.0
FS-070040R	7.0	4.0	FS-090025R	9.0	2.5
FS-070070R	7.0	7.0	FS-090030R	9.0	3.0
FS-070080R	7.0	8.0	FS-090035R	9.0	3.5
FS-070170R	7.0	17.0	FS-090040R	9.0	4.0
FS-075050R	7.5	5.0	FS-090045R	9.0	4.5
FS-080020R	8.0	2.0	FS-090050R	9.0	5.0

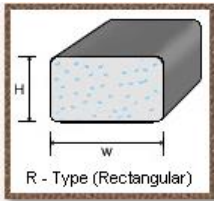
## RECTANGLE



Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-090060R	9.0	6.0	FS-100085R	10.0	8.5
FS-095020R	9.5	2.0	FS-100090R	10.0	9.0
FS-095030R	9.5	3.0	FS-100100R	10.0	10.0
FS-095032R	9.5	3.2	FS-100105R	10.0	10.5
FS-095064R	9.5	6.4	FS-100120R	10.0	12.0
FS-095095R	9.5	9.5	FS-120025R	12.0	2.5
FS-100020R	10.0	2.0	FS-120030R	12.0	3.0
FS-100025R	10.0	2.5	FS-120040R	12.0	4.0
FS-100030R	10.0	3.0	FS-120050R	12.0	5.0
FS-100035R	10.0	3.5	FS-120060R	12.0	6.0
FS-100040R	10.0	4.0	FS-120065R	12.0	6.5
FS-100045R	10.0	4.5	FS-120080R	12.0	8.0
FS-100050R	10.0	5.0	FS-120090R	12.0	9.0
FS-100055R	10.0	5.5	FS-120100R	12.0	10.0
FS-100060R	10.0	6.0	FS-120120R	12.0	12.0
FS-100065R	10.0	6.5	FS-120127R	12.0	12.7
FS-100070R	10.0	7.0	FS-120140R	12.0	14.0
FS-100075R	10.0	7.5	FS-122093R	12.2	9.3
FS-100080R	10.0	8.0	FS-124038R	12.4	3.8

Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-124094R	12.4	9.4	FS-130105R	13.0	10.5
FS-127024R	12.7	2.4	FS-130110R	13.0	11.0
FS-127032R	12.7	3.2	FS-130120R	13.0	12.0
FS-127038R	12.7	3.8	FS-130130R	13.0	13.0
FS-127064R	12.7	6.4	FS-140025R	14.0	2.5
FS-127095R	12.7	9.5	FS-140070R	14.0	7.0
FS-127127R	12.7	12.7	FS-150020R	15.0	2.0
FS-130020R	13.0	2.0	FS-150025R	15.0	2.5
FS-130025R	13.0	2.5	FS-150040R	15.0	4.0
FS-130030R	13.0	3.0	FS-150050R	15.0	5.0
FS-130035R	13.0	3.5	FS-150060R	15.0	6.0
FS-130040R	13.0	4.0	FS-150075R	15.0	7.5
FS-130050R	13.0	5.0	FS-150100R	15.0	10.0
FS-130060R	13.0	6.0	FS-150120R	15.0	12.0
FS-130065R	13.0	6.5	FS-150150R	15.0	15.0
FS-130070R	13.0	7.0	FS-158025R	15.8	2.5
FS-130080R	13.0	8.0	FS-159032R	15.9	3.2
FS-130090R	13.0	9.0	FS-160040R	16.0	4.0
FS-130100R	13.0	10.0	FS-160100R	16.0	10.0

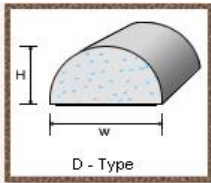
## RECTANGLE



Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-164032R	16.4	3.2	FS-200100R	20.0	10.0
FS-170060R	17.0	6.0	FS-200120R	20.0	12.0
FS-170080R	17.0	8.0	FS-200140R	20.0	14.0
FS-170100R	17.0	10.0	FS-200160R	20.0	16.0
FS-170150R	17.0	15.0	FS-200200R	20.0	20.0
FS-170170R	17.0	17.0	FS-230100R	23.0	23.0
FS-170210R	17.0	21.0	FS-250100R	25.0	10.0
FS-170250R	17.0	25.0	FS-250120R	25.0	12.0
FS-17026R	17.0	26.0	FS-250250R	25.0	25.0
FS-180030R	18.0	3.0	FS-250200R	25.0	20.0
FS-180035R	18.0	3.5	FS-254095R	25.4	9.5
FS-180100R	18.0	10.0	FS-260050R	26.0	5.0
FS-180150R	18.0	15.0	FS-260060R	26.0	6.0
FS-190070R	19.0	7.0	FS-260120R	26.0	12.0
FS-200050R	20.0	5.0	FS-260170R	26.0	17.0
FS-200060R	20.0	6.0	FS-300040R	30.0	4.0
FS-200070R	20.0	7.0	FS-300045R	30.0	4.5
FS-200080R	20.0	8.0	FS-300050R	30.0	5.0
FS-200090R	20.0	9.0	FS-300060R	30.0	6.0

Part Number	Width (mm)	Height (mm)
FS-300070R	30.0	7.0
FS-300100R	30.0	10.0
FS-300300R	30.0	30.0
FS-330060R	33.0	6.0
FS-400150R	40.0	15.0
FS-440200R	44.0	20.0
FS-600080R	60.0	8.0

## D SHAPE

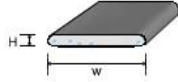


Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-023023D	2.3	2.3	FS-060040D	6.0	4.0
FS-023032D	2.3	3.2	FS-060045D	6.0	4.5
FS-026032D	2.6	3.2	FS-060050D	6.0	5.0
FS-030020D	3.0	2.0	FS-060055D	6.0	5.5
FS-030030D	3.0	3.0	FS-060060D	6.0	6.0
FS-030035D	3.0	3.5	FS-064036D	6.4	3.6
FS-038015D	3.8	1.5	FS-065032D	6.5	3.2
FS-038023D	3.8	2.3	FS-065034D	6.5	3.4
FS-038030D	3.8	3.0	FS-065050D	6.5	5.0
FS-038038D	3.8	3.8	FS-065060D	6.5	6.0
FS-040020D	4.0	2.0	FS-070050D	7.0	5.0
FS-040030D	4.0	3.0	FS-076048D	7.6	4.8
FS-040040D	4.0	4.0	FS-080050D	8.0	5.0
FS-048032D	4.8	3.2	FS-080080D	8.0	8.0
FS-050020D	5.0	2.0	FS-080100D	8.0	10.0
FS-050050D	5.0	5.0	FS-090032D	9.0	3.2
FS-050100D	5.0	10.0	FS-090060D	9.0	6.0
FS-060020D	6.0	2.0	FS-09140495D	9.14	4.95
FS-060032D	6.0	3.2	FS-095032D	9.5	3.2

Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-095060D	9.5	6.0	FS-120120D	12.0	12.0
FS-096064D	9.5	6.4	FS-120140D	12.0	14.0
FS-100020D	10.0	2.0	FS-120180D	12.0	18.0
FS-100025D	10.0	2.5	FS-127095D	12.7	9.5
FS-100030D	10.0	3.0	FS-130050D	13.0	5.0
FS-100035D	10.0	3.5	FS-150060D	15.0	6.0
FS-100040D	10.0	4.0	FS-152055D	15.2	5.5
FS-100045D	10.0	4.5	FS-175120D	17.5	12.0
FS-100050D	10.0	5.0	FS-180140D	18.0	14.0
FS-100055D	10.0	5.5	FS-180150D	18.0	15.0
FS-100060D	10.0	6.0	FS-180200D	18.0	20.0
FS-100070D	10.0	7.0	FS-180230D	18.0	23.0
FS-100075D	10.0	7.5	FS-200075D	20.0	7.5
FS-100100D	10.0	10.0			
FS-100120D	10.0	12.0			
FS-110035D	11.0	3.5			
FS-110045D	11.0	4.5			
FS-110055D	11.0	5.5			
FS-120010D	12.0	1.0			



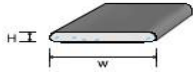
## FLAT



Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-020003F	2.0	0.3	FS-040015F	4.0	1.5
FS-020008F	2.0	0.8	FS-045010F	4.5	1.0
FS-020010F	2.0	1.0	FS-050003F	5.0	0.3
FS-020012F	2.0	1.2	FS-050005F	5.0	0.5
FS-020015F	2.0	1.5	FS-050008F	5.0	0.8
FS-025003F	2.5	0.3	FS-050010F	5.0	1.0
FS-025010F	2.5	1.0	FS-050012F	5.0	1.2
FS-030003F	3.0	0.3	FS-050013F	5.0	1.3
FS-030007F	3.0	0.7	FS-050015F	5.0	1.5
FS-030010F	3.0	1.0	FS-050018F	5.0	1.8
FS-030012F	3.0	1.2	FS-055007F	5.5	0.7
FS-030015F	3.0	1.5	FS-060005F	6.0	0.5
FS-038016F	3.8	1.6	FS-060007F	6.0	0.7
FS-040003F	4.0	0.3	FS-060010F	6.0	1.0
FS-040005F	4.0	0.5	FS-060012F	6.0	1.2
FS-040008F	4.0	0.8	FS-060015F	6.0	1.5
FS-040009F	4.0	0.9	FS-060018F	6.0	1.8
FS-040010F	4.0	1.0	FS-065018F	6.5	1.8
FS-040012F	4.0	1.2	FS-070003F	7.0	0.3

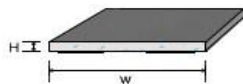
Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-070005F	7.0	0.5	FS-090010F	9.0	1.0
FS-070008F	7.0	0.8	FS-090015F	9.0	1.5
FS-070010F	7.0	1.0	FS-090018F	9.0	1.8
FS-070012F	7.0	1.2	FS-095005F	9.5	0.5
FS-070015F	7.0	1.5	FS-100003F	10.0	0.3
FS-070018F	7.0	1.8	FS-100005F	10.0	0.5
FS-076010F	7.6	1.0	FS-100008F	10.0	0.8
FS-076016F	7.6	1.6	FS-100010F	10.0	1.0
FS-080003F	8.0	0.3	FS-100012F	10.0	1.2
FS-080005F	8.0	1.5	FS-100015F	10.0	1.5
FS-080008F	8.0	0.8	FS-100018F	10.0	1.8
FS-080010F	8.0	1.0	FS-105007F	10.5	0.7
FS-080012F	8.0	1.2	FS-110010F	11.0	1.0
FS-080015F	8.0	1.5	FS-110020F	11.0	2.0
FS-085003F	8.5	0.3	FS-120005F	12.0	0.5
FS-088004F	8.8	0.4	FS-120010F	12.0	1.0
FS-090003F	9.0	0.3	FS-120015F	12.0	1.5
FS-090005F	9.0	0.5	FS-130007F	13.0	0.7
FS-090007F	9.0	0.7	FS-130009F	13.0	0.9

## FLAT



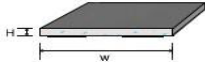
Part Number	Width (mm)	Height (mm)
FS-130010F	13.0	1.0
FS-130013F	13.0	1.3
FS-130015F	13.0	1.5
FS-140015F	14.0	1.5
FS-150008F	15.0	0.8
FS-150010F	15.0	1.0

## I/O (INPUT/OUTPUT) WIDE



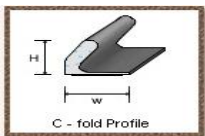
Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-180020I	18.0	2.0	FS-217010I	21.7	1.0
FS-180030I	18.0	3.0	FS-218010I	21.8	1.0
FS-180035I	18.0	3.5	FS-220015I	22.0	1.5
FS-190010I	19.0	1.0	FS-220040I	22.0	4.0
FS-191020I	19.1	2.0	FS-232018I	23.2	1.8
FS-191023I	19.1	2.3	FS-236010I	23.6	1.0
FS-198010I	19.8	1.0	FS-240020I	24.0	2.0
FS-200003I	20.0	0.3	FS-250010I	25.0	1.0
FS-200010I	20.0	1.0	FS-250020I	25.0	2.0
FS-200015I	20.0	1.5	FS-250030I	25.0	3.0
FS-200020I	20.0	2.0	FS-260025I	26.0	2.5
FS-200030I	20.0	3.0	FS-267010I	26.7	1.0
FS-200035I	20.0	3.5	FS-270012I	27.0	1.2
FS-200040I	20.0	4.0	FS-270020I	27.0	2.0
FS-210010I	21.0	1.0	FS-300008I	30.0	0.8
FS-210020I	21.0	2.0	FS-300030I	30.0	3.0
FS-210025I	21.0	2.5	FS-300035I	30.0	3.5
FS-210037I	21.0	3.7	FS-310010I	31.0	1.0
FS-210040I	21.0	4.0	FS-310020I	31.0	2.0

## I/O (INPUT/OUTPUT) WIDE



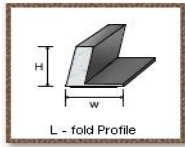
Part Number	Width (mm)	Height (mm)	Part Number	Width (mm)	Height (mm)
FS-310030I	31.0	3.0	FS-508025I	50.8	2.5
FS-320010I	32.0	1.0	FS-550012I	55.0	1.2
FS-320045I	32.0	4.5	FS-550025I	55.0	2.5
FS-330008I	33.0	0.8	FS-550030I	55.0	3.0
FS-345010I	34.5	1.0	FS-600020I	60.0	2.0
FS-350020I	35.0	2.0	FS-650015I	65.0	1.5
FS-355010I	35.5	1.0			
FS-370015I	37.0	1.5			
FS-385010I	38.5	1.0			
FS-385025I	38.5	2.5			
FS-400010I	40.0	1.0			
FS-400020I	40.0	2.0			
FS-400032I	40.0	3.2			
FS-410015I	41.0	1.5			
FS-410035I	41.0	3.5			
FS-4128010I	41.28	1.0			
FS-430025I	43.0	2.5			
FS-450020I	45.0	2.0			
FS-508015I	50.8	1.5			

## C FOLD



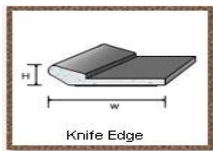
Part Number	Width (mm)	Height (mm)
FS-075055C	7.5	5.5
FS-080080C	8.0	8.0
FS-080100C	8.0	10.0
FS-100100C	10.0	10.0
FS-107085C	10.7	8.5
FS-107098C	10.7	9.8
FS-107100C	10.7	10.0
FS-107118C	10.7	11.8
FS-147171C	14.7	17.1
FS-150098C	15.0	9.8
FS-160114C	16.0	11.4

## L FOLD



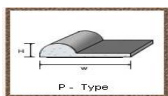
Part Number	Width (mm)	Height (mm)
FS-110110L	11.0	11.0
FS-140150L	14.0	15.0
FS-350100L	35.0	10.0

## KNIFE EDGE



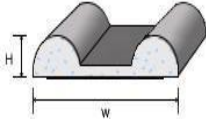
Part Number	Width (mm)	Height (mm)
FS-113025K	11.3	2.5
FS-125035K	12.5	3.5
FS-127024K	12.7	2.4
FS-127025K	12.7	2.5

## P SHAPE



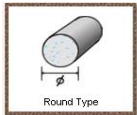
Part Number	Width (mm)	Height (mm)
FS-080020P	8.0	2.0
FS-080040P	8.0	4.0
FS-132033P	13.2	3.3
FS-160045P	16.0	4.5

## DD SHAPE



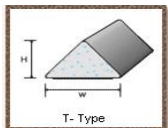
Part Number	Width (mm)	Height (mm)
FS-097028DD	9.7	2.8

## ROUND



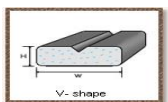
Part Number	Dia. (mm)
FS-020RO	2.0
FS-025RO	2.5
FS-032RO	3.2
FS-110RO	11.0

## T SHAPE



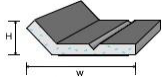
Part Number	Width (mm)	Height (mm)
FS-040040T	4.0	4.0
FS-050020T	5.0	2.0

## V SHAPE



Part Number	Width (mm)	Height (mm)
FS-200050V	20.0	5.0
FS-280060V	28.0	6.0

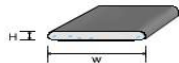
## FOLDING LEAF



Part Number	Width (mm)	Height (mm)
FS-191064FL	19.1	6.4

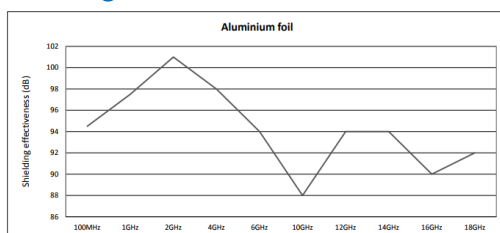
## ALUMINIUM FOIL OVER FOAM

Due to the manufacturing process aluminium over foam gaskets may show some deformities on cut edges, however this does not affect the performance or quality of the product. Aluminium foil over foam gaskets are used as a low cost option, and where low closure forces are required. Other sizes available on request.



Part Number	Width (mm)	Height (mm)
FS-170260AL	17.0	26.0
FS-300100AL	30.0	10.0

## Shielding Effectiveness



All technical data herein is accurate to the best of our knowledge based on our most up to date testing information and material specifications. This information is not presented as a warranty or guarantee and is not intended to be all inclusive as to conditions of use. The data herein represents typical properties and is not to be used as a basis for a specification.