

# FABRIC-OVER-FOAM I/O GASKET SELECTION GUIDE



## Part Number Example:

Digits: 1 2 3 4    5 6    7 8 9    10 11 12 13 14

4 6 9 3 - PA - 5 1 H - 0 1 2 0 0

| Profile Shape & Part Specific Details | Attachment | Core Materials   | Flame Rating               | Fabric Cover  | Part Length |
|---------------------------------------|------------|--|----------------------------|---|-------------|
|                                       |            | 5 = Soft Urethane<br>R = High Temp<br>T = Low Compression Set / Force<br>0 = No Foam<br>H = Sculpted Foam / 'C' Shapes | 0 = Not Rated<br>1 = UL VO | 8, K, B = Ni/Cu Ripstop<br>Y, 6 = Ni/Cu Knit Mesh<br>H = Ni/Cu Taffeta<br>L = Black Ni/Cu Taffeta |             |
|                                       |            |  |                            |   |             |
|                                       |            |  |                            |   |             |
|                                       |            |  |                            |   |             |

\* Certain combinations of materials may not be available for all Profiles or I/Os.  
Please consult the Engineering Department at Laird when unsure.

See back cover for contact information.

## DIGITS 1 THROUGH 4

Designate profile number. Select profile or I/O and sizes from pages 58-61 (Profile) or 62-64 (I/O).

## DIGITS 5 THROUGH 6

Designate part-specific attributes of the product including cutouts, notches, tape and a variety of other customized details. PA STD PSA / PB STD PSA W/ ERL / PC STD CPSA

## DIGITS 7 THROUGH 9

Designate the core materials, flame rating and fabric cover combinations. Select these options from the recommended list in the table below.

## DIGITS 10 THROUGH 14

Designate the part length in inches to two decimal places. For the example shown above, the "01200" denotes a 12.00 inch (304.8 mm) long gasket).

| Fabric              | Non-Rated RoHS Compliant | UL94-VO Rated RoHS Compliant | UL94-VO Rated RoHS Compliant Halogen-Free EcoGreen™ | Typical Apps                    | Shielding |
|---------------------|--------------------------|------------------------------|---|---------------------------------|-----------|
| Ni/Cu Mesh          | 506                      |                              | 51N   | Compros Only                    | Medium    |
| Ni/Cu Taffeta       | 501                      |                              | 51H   | Comp/Shear                      | High      |
| Ni/Cu NRS           | 50B                      |                              | 51G   | Comp/Shear                      | High      |
| Ni/Cu NRS           |                          | H1K                          |   | C-Fold Only                     | High      |
| Sn/Cu NRS           |                          |                              | 51S   | Comp/Shear<br>Harsh Environment | High      |
| Ni/Cu NRS           |                          |                              | T1G   | Low Compression Set / Force     | High      |
| Ni/Cu NRS           |                          |                              | R1G   | 85°C Applications               | High      |
| Ni/Cu Black Taffeta |                          |                              | 51L   | Visible Applications            | High      |



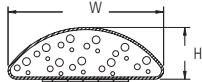
All parts listed in this catalog are lead free and RoHS compliant.



EMI ESSENTIALS

# FABRIC-OVER-FOAM PROFILE SELECTION GUIDE

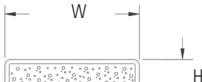
## D-SHAPED



| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4584           | 0.040 (1,0)      | 0.150 (3,8)      |
| 4320           | 0.050 (1,3)      | 0.140 (3,6)      |
| 4541           | 0.050 (1,3)      | 0.250 (6,4)      |
| 4358           | 0.060 (1,5)      | 0.098 (2,5)      |
| 4184           | 0.060 (1,5)      | 0.150 (3,8)      |
| 4548           | 0.060 (1,5)      | 0.250 (6,4)      |
| 4356           | 0.070 (1,8)      | 0.180 (4,6)      |
| 4052           | 0.080 (2,0)      | 0.080 (2,0)      |
| 4283           | 0.080 (2,0)      | 0.157 (4,0)      |
| 4181           | 0.080 (2,0)      | 0.394 (10,0)     |
| 4053           | 0.090 (2,3)      | 0.090 (2,3)      |
| 4912           | 0.090 (2,3)      | 0.150 (3,8)      |
| 4375           | 0.094 (2,4)      | 0.200 (5,1)      |
| 4240           | 0.100 (2,5)      | 0.300 (7,6)      |
| 4742           | 0.120 (3,0)      | 0.150 (3,8)      |
| 4202           | 0.120 (3,0)      | 0.250 (6,4)      |
| 4078           | 0.120 (3,0)      | 0.360 (9,1)      |
| 4090           | 0.125 (3,2)      | 0.090 (2,3)      |

| Profile Number | H inches (mm)<br>W | W inches (mm)<br>W |
|----------------|--------------------|--------------------|
| 4906           | 0.130 (3,3)        | 0.188 (4,8)        |
| 4692           | 0.140 (3,6)        | 0.250 (6,4)        |
| 4228           | 0.150 (3,8)        | 0.150 (3,8)        |
| 4123           | 0.150 (3,8)        | 0.354 (9,0)        |
| 4112           | 0.158 (4,0)        | 0.433 (11,0)       |
| 4120           | 0.160 (4,1)        | 0.240 (6,1)        |
| 4295           | 0.170 (4,3)        | 0.250 (6,4)        |
| 4609           | 0.180 (4,6)        | 0.400 (10,2)       |
| 4787           | 0.200 (5,1)        | 0.250 (6,4)        |
| 4134           | 0.197 (5,0)        | 0.394 (10,0)       |
| 4607           | 0.200 (5,1)        | 0.480 (12,2)       |
| 4242           | 0.250 (6,4)        | 0.250 (6,4)        |
| 4542           | 0.248 (6,3)        | 0.291 (7,4)        |
| 4789           | 0.250 (6,4)        | 0.375 (9,5)        |
| 4368           | 0.299 (7,6)        | 0.272 (6,9)        |
| 4105           | 0.375 (9,5)        | 0.500 (12,7)       |
| 4060           | 0.500 (12,7)       | 0.500 (12,7)       |

## RECTANGLE SHAPED



| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| *4570          | 0.015 (0,4)      | 0.200 (5,1)      |
| *4577          | 0.015 (0,4)      | 0.276 (7,0)      |
| *4572          | 0.015 (0,4)      | 0.394 (10,0)     |
| *4300          | 0.017 (0,4)      | 0.826 (21,0)     |
| *4058          | 0.020 (0,5)      | 0.157 (4,0)      |
| *4569          | 0.020 (0,5)      | 0.196 (5,0)      |
| *4500          | 0.020 (0,5)      | 1.217 (30,9)     |
| *4501          | 0.020 (0,5)      | 1.970 (50,0)     |
| *4850          | 0.030 (0,8)      | 0.900 (22,9)     |
| 4245           | 0.040 (1,0)      | 0.120 (3,0)      |
| 4223           | 0.040 (1,0)      | 0.157 (4,0)      |
| 4220           | 0.040 (1,0)      | 0.200 (5,1)      |
| 4404           | 0.040 (1,0)      | 0.236 (6,0)      |
| 4215           | 0.040 (1,0)      | 0.275 (7,0)      |
| 4208           | 0.040 (1,0)      | 0.395 (10,0)     |
| 4219           | 0.040 (1,0)      | 0.510 (13,0)     |
| 4259           | 0.040 (1,0)      | 0.600 (15,2)     |
| 4677           | 0.040 (1,0)      | 0.709 (18,0)     |
| 4532           | 0.040 (1,0)      | 0.750 (19,1)     |
| 4597           | 0.040 (1,0)      | 0.900 (22,9)     |
| 4297           | 0.040 (1,0)      | 1.000 (25,4)     |
| 4363           | 0.040 (1,0)      | 1.126 (28,6)     |
| 4179           | 0.040 (1,0)      | 1.431 (36,3)     |
| 4512           | 0.040 (1,0)      | 1.640 (41,7)     |
| 4270           | 0.040 (1,0)      | 1.770 (45,0)     |
| 4573           | 0.040 (1,0)      | 1.840 (46,7)     |
| 4394           | 0.040 (1,0)      | 3.300 (83,8)     |
| 4246           | 0.050 (1,3)      | 0.090 (2,3)      |
| 4088           | 0.050 (1,3)      | 0.220 (5,6)      |
| 4086           | 0.060 (1,5)      | 0.850 (21,6)     |
| 4273           | 0.060 (1,5)      | 0.125 (3,2)      |
| 4056           | 0.060 (1,5)      | 0.200 (5,1)      |
| 4157           | 0.060 (1,5)      | 0.280 (7,1)      |
| 4629           | 0.060 (1,5)      | 0.394 (10,0)     |
| 4051           | 0.060 (1,5)      | 0.500 (12,7)     |
| 4455           | 0.060 (1,5)      | 0.551 (14,0)     |
| 4430           | 0.060 (1,5)      | 0.591 (15,0)     |
| 4626           | 0.060 (1,5)      | 0.608 (15,4)     |
| 4606           | 0.060 (1,5)      | 0.620 (15,7)     |
| 4579           | 0.060 (1,5)      | 0.650 (16,5)     |
| 4164           | 0.060 (1,5)      | 0.750 (19,1)     |

| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4170           | 0.060 (1,5)      | 0.866 (22,0)     |
| 4225           | 0.060 (1,5)      | 0.900 (22,9)     |
| 4080           | 0.060 (1,5)      | 1.000 (25,4)     |
| 4599           | 0.060 (1,5)      | 1.063 (27,0)     |
| 4518           | 0.060 (1,5)      | 1.235 (31,4)     |
| 4079           | 0.060 (1,5)      | 1.330 (33,8)     |
| 4161           | 0.060 (1,5)      | 1.370 (34,8)     |
| 4163           | 0.060 (1,5)      | 1.400 (35,6)     |
| 4591           | 0.060 (1,5)      | 1.455 (37,0)     |
| 4091           | 0.060 (1,5)      | 1.525 (38,7)     |
| 4628           | 0.060 (1,5)      | 1.575 (40,0)     |
| 4231           | 0.060 (1,5)      | 1.615 (41,0)     |
| 4679           | 0.060 (1,5)      | 1.693 (43,0)     |
| 4408           | 0.060 (1,5)      | 1.740 (44,2)     |
| 4148           | 0.060 (1,5)      | 1.878 (47,7)     |
| 4169           | 0.060 (1,5)      | 1.900 (48,3)     |
| 4160           | 0.060 (1,5)      | 2.305 (58,5)     |
| 4235           | 0.060 (1,5)      | 2.52 (64,0)      |
| 4596           | 0.060 (1,5)      | 3.091 (78,5)     |
| 4907           | 0.060 (1,5)      | 3.780 (96,0)     |
| 4071           | 0.062 (1,6)      | 0.300 (7,6)      |
| 4171           | 0.062 (1,6)      | 0.870 (22,1)     |
| 4143           | 0.062 (1,6)      | 2.000 (50,8)     |
| 4268           | 0.070 (1,8)      | 0.160 (4,1)      |
| 4302           | 0.070 (1,8)      | 0.551 (14,0)     |
| 4199           | 0.070 (1,8)      | 0.650 (16,5)     |
| 4410           | 0.070 (1,8)      | 1.063 (27,0)     |
| 4688           | 0.079 (2,0)      | 0.118 (3,0)      |
| 4392           | 0.079 (2,0)      | 0.354 (9,0)      |
| 4094           | 0.080 (2,0)      | 0.160 (4,1)      |
| 4186           | 0.080 (2,0)      | 0.200 (5,1)      |
| 4602           | 0.080 (2,0)      | 0.236 (6,0)      |
| 4096           | 0.080 (2,0)      | 0.275 (7,0)      |
| 4650           | 0.080 (2,0)      | 0.295 (7,5)      |
| 4601           | 0.080 (2,0)      | 0.315 (8,0)      |
| 4357           | 0.080 (2,0)      | 0.394 (10,0)     |
| 4182           | 0.080 (2,0)      | 0.400 (10,2)     |
| 4675           | 0.080 (2,0)      | 0.535 (13,6)     |
| 4359           | 0.080 (2,0)      | 0.710 (18,0)     |
| 4571           | 0.080 (2,0)      | 0.787 (20,0)     |
| 4200           | 0.080 (2,0)      | 0.827 (21,0)     |

All dimensions shown are in inches (millimeters) unless otherwise specified.

\* Gaskets less than 0.040" thick are constructed without foam.

# FABRIC-OVER-FOAM PROFILE SELECTION GUIDE



## Rectangle Shaped Continued

| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4361           | 0.080 (2,0)      | 0.900 (22,9)     |
| 4325           | 0.080 (2,0)      | 0.984 (25,0)     |
| 4194           | 0.080 (2,0)      | 1.126 (28,6)     |
| 4389           | 0.080 (2,0)      | 1.259 (32,0)     |
| 4315           | 0.080 (2,0)      | 1.345 (34,2)     |
| 4531           | 0.080 (2,0)      | 1.550 (39,4)     |
| 4263           | 0.080 (2,0)      | 1.615 (41,0)     |
| 4260           | 0.080 (2,0)      | 1.842 (46,8)     |
| 4262           | 0.080 (2,0)      | 1.736 (44,1)     |
| 4355           | 0.080 (2,0)      | 5.340 (135,6)    |
| 4339           | 0.090 (2,3)      | 0.200 (5,1)      |
| 4903           | 0.090 (2,3)      | 0.535 (13,6)     |
| 4248           | 0.090 (2,3)      | 1.060 (26,9)     |
| 4254           | 0.090 (2,3)      | 1.370 (34,8)     |
| 4255           | 0.090 (2,3)      | 1.655 (42,0)     |
| 4256           | 0.090 (2,3)      | 1.700 (43,2)     |
| 4801           | 0.100 (2,5)      | 0.265 (6,7)      |
| 4082           | 0.100 (2,5)      | 0.375 (9,5)      |
| 4612           | 0.100 (2,5)      | 0.500 (12,7)     |
| 4133           | 0.100 (2,5)      | 0.354 (9,0)      |
| 4285           | 0.100 (2,5)      | 1.330 (33,8)     |
| 4582           | 0.100 (2,5)      | 1.500 (38,1)     |
| 4330           | 0.100 (2,5)      | 1.625 (41,3)     |
| 4083           | 0.110 (2,8)      | 0.240 (6,1)      |
| 4042           | 0.118 (3,0)      | 0.125 (3,2)      |
| 4619           | 0.118 (3,0)      | 0.197 (5,0)      |
| 4272           | 0.118 (3,0)      | 0.315 (8,0)      |
| 4286           | 0.118 (3,0)      | 0.394 (10,0)     |
| 4583           | 0.118 (3,0)      | 0.787 (20,0)     |
| 4126           | 0.118 (3,0)      | 1.717 (43,6)     |
| 4209           | 0.120 (3,0)      | 0.155 (3,9)      |
| 4210           | 0.120 (3,0)      | 0.355 (9,0)      |
| 4264           | 0.120 (3,0)      | 0.750 (19,1)     |
| 4536           | 0.120 (3,0)      | 1.551 (39,4)     |
| 4788           | 0.125 (3,2)      | 0.250 (6,4)      |
| 4694           | 0.125 (3,2)      | 0.500 (12,7)     |
| 4065           | 0.125 (3,2)      | 0.600 (15,2)     |
| 4247           | 0.125 (3,2)      | 0.700 (17,8)     |
| 4376           | 0.125 (3,2)      | 0.720 (18,3)     |
| 4064           | 0.125 (3,2)      | 1.000 (25,4)     |
| 4603           | 0.125 (3,2)      | 1.125 (28,6)     |
| 4066           | 0.125 (3,2)      | 1.250 (31,8)     |
| 4158           | 0.125 (3,2)      | 1.400 (35,6)     |
| 4239           | 0.125 (3,2)      | 1.615 (41,0)     |
| 4238           | 0.125 (3,2)      | 1.850 (47,0)     |
| 4693           | 0.130 (3,3)      | 0.190 (4,8)      |
| 4062           | 0.130 (3,3)      | 0.380 (9,7)      |
| 4694           | 0.130 (3,3)      | 0.500 (12,7)     |
| 4632           | 0.125 (3,2)      | 1.625 (41,3)     |
| 4575           | 0.125 (3,2)      | 2.000 (50,8)     |
| 4615           | 0.138 (3,5)      | 0.197 (5,0)      |
| 4594           | 0.138 (3,5)      | 0.350 (8,9)      |
| 4525           | 0.140 (3,6)      | 0.512 (13,0)     |
| 4203           | 0.150 (3,8)      | 0.100 (2,5)      |
| 4047           | 0.150 (3,8)      | 0.500 (12,7)     |
| 4533           | 0.156 (4,0)      | 0.630 (16,0)     |
| 4799           | 0.156 (4,0)      | 0.650 (16,5)     |
| 4914           | 0.156 (4,0)      | 0.709 (18,0)     |
| 4499           | 0.157 (4,0)      | 0.197 (5,0)      |
| 4741           | 0.157 (4,0)      | 0.256 (6,5)      |

| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4055           | 0.157 (4,0)      | 0.315 (8,0)      |
| 4516           | 0.157 (4,0)      | 0.354 (9,0)      |
| 4791           | 0.157 (4,0)      | 0.394 (10,0)     |
| 4098           | 0.157 (4,0)      | 0.591 (15,0)     |
| 4704           | 0.158 (4,0)      | 0.236 (6,0)      |
| 4241           | 0.160 (4,1)      | 0.200 (5,1)      |
| 4253           | 0.160 (4,1)      | 0.280 (7,1)      |
| 4114           | 0.158 (4,0)      | 0.433 (11,0)     |
| 4115           | 0.160 (4,1)      | 0.590 (15,0)     |
| 4249           | 0.160 (4,1)      | 0.790 (20,1)     |
| 4257           | 0.160 (4,1)      | 0.880 (22,4)     |
| 4252           | 0.160 (4,1)      | 0.985 (25,0)     |
| 4250           | 0.160 (4,1)      | 1.375 (34,9)     |
| 4251           | 0.160 (4,1)      | 1.700 (43,2)     |
| 4142           | 0.177 (4,5)      | 0.354 (9,0)      |
| 4370           | 0.180 (4,6)      | 2.000 (50,8)     |
| 4902           | 0.196 (5,0)      | 0.315 (8,0)      |
| 4258           | 0.190 (4,8)      | 1.625 (41,3)     |
| 4698           | 0.195 (5,0)      | 0.130 (3,3)      |
| 4211           | 0.195 (5,0)      | 0.395 (10,0)     |
| 4674           | 0.197 (5,0)      | 0.512 (13,0)     |
| 4360           | 0.197 (5,0)      | 0.591 (15,0)     |
| 4281           | 0.200 (5,1)      | 3.900 (99,1)     |
| 4365           | 0.216 (5,5)      | 0.394 (10,0)     |
| 4100           | 0.216 (5,5)      | 0.500 (12,7)     |
| 4786           | 0.217 (5,5)      | 0.394 (10,0)     |
| 4528           | 0.217 (5,5)      | 0.709 (18,0)     |
| 4087           | 0.225 (5,7)      | 0.218 (5,5)      |
| 4701           | 0.250 (6,4)      | 0.375 (9,5)      |
| 4795           | 0.250 (6,4)      | 0.500 (12,7)     |
| 4798           | 0.250 (6,4)      | 0.600 (15,2)     |
| 4226           | 0.250 (6,4)      | 0.750 (19,1)     |
| 4224           | 0.250 (6,4)      | 1.000 (25,4)     |
| 4705           | 0.256 (6,5)      | 0.236 (6,0)      |
| 4740           | 0.256 (6,5)      | 0.394 (10,0)     |
| 4649           | 0.275 (7,0)      | 0.394 (10,0)     |
| 4568           | 0.275 (7,0)      | 0.511 (13,0)     |
| 4113           | 0.276 (7,0)      | 0.433 (11,0)     |
| 4227           | 0.283 (7,2)      | 1.180 (30,0)     |
| 4222           | 0.295 (7,5)      | 0.591 (15,0)     |
| 4237           | 0.295 (7,5)      | 1.500 (38,1)     |
| 4057           | 0.315 (8,0)      | 0.157 (4,0)      |
| 4687           | 0.315 (8,0)      | 0.236 (6,0)      |
| 4216           | 0.315 (8,0)      | 0.395 (10,0)     |
| 4610           | 0.335 (8,5)      | 0.394 (10,0)     |
| 4702           | 0.375 (9,5)      | 0.250 (6,4)      |
| 4081           | 0.375 (9,5)      | 0.500 (12,7)     |
| 4070           | 0.375 (9,5)      | 0.750 (19,1)     |
| 4192           | 0.375 (9,5)      | 1.000 (25,4)     |
| 4176           | 0.394 (10,0)     | 0.787 (20,0)     |
| 4513           | 0.413 (10,5)     | 0.394 (10,0)     |
| 4173           | 0.413 (10,5)     | 0.512 (13,0)     |
| 4524           | 0.452 (11,5)     | 0.472 (12,0)     |
| 4391           | 0.500 (13,0)     | 0.984 (25,0)     |
| 4172           | 0.591 (15,0)     | 0.394 (10,0)     |
| 4233           | 0.600 (15,2)     | 1.000 (25,4)     |
| 4136           | 0.670 (17,0)     | 0.591 (15,0)     |
| 4900           | 0.700 (17,8)     | 0.500 (12,7)     |
| 4686           | 0.709 (18,0)     | 0.394 (10,0)     |
| 4744           | 0.787 (20,0)     | 0.580 (14,7)     |

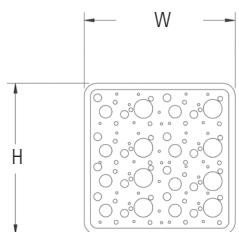
All dimensions shown are in inches (millimeters) unless otherwise specified.



EMI ESSENTIALS

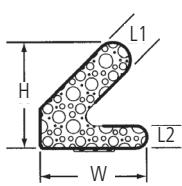
# FABRIC-OVER-FOAM PROFILE SELECTION GUIDE

## SQUARE SHAPED



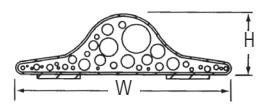
| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4520           | 0.080 (2,0)      | 0.080 (2,0)      |
| 4046           | 0.118 (3,0)      | 0.118 (3,0)      |
| 4522           | 0.157 (4,0)      | 0.157 (4,0)      |
| 4212           | 0.195 (5,0)      | 0.195 (5,0)      |
| 4048           | 0.236 (6,0)      | 0.236 (6,0)      |
| 4049           | 0.250 (6,4)      | 0.250 (6,4)      |
| 4695           | 0.375 (9,5)      | 0.375 (9,5)      |
| 4206           | 0.395 (10,0)     | 0.395 (10,0)     |
| 4084           | 0.500 (12,7)     | 0.500 (12,7)     |
| 4204           | 0.670 (17,0)     | 0.670 (17,0)     |
| 4517           | 0.750 (19,1)     | 0.750 (19,1)     |
| 4089           | 0.787 (20,0)     | 0.787 (20,0)     |

## C-FOLD SHAPED



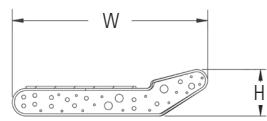
| Profile Number | inches (mm)<br>H | inches (mm)<br>W | inches (mm)<br>L1 | inches (mm)<br>L2 |
|----------------|------------------|------------------|-------------------|-------------------|
| 4593           | 0.250 (6,4)      | 0.280 (7,1)      | 0.125 (3,2)       | 0.060 (1,5)       |
| 4168           | 0.315 (8,0)      | 0.315 (8,0)      | 0.080 (2,0)       | 0.080 (2,0)       |
| 4198           | 0.385 (9,8)      | 0.420 (10,7)     | 0.115 (2,9)       | 0.060 (1,5)       |
| 4243           | 0.400 (10,2)     | 0.430 (10,9)     | 0.125 (3,2)       | 0.060 (1,5)       |
| 4600           | 0.415 (10,5)     | 0.450 (11,4)     | 0.135 (3,4)       | 0.650 (1,7)       |
| 4529           | 0.465 (11,8)     | 0.420 (10,7)     | 0.115 (2,9)       | 0.060 (1,5)       |
| 4697           | 0.675 (17,1)     | 0.590 (15,0)     | 0.165 (4,2)       | 0.156 (4,0)       |
| 4703           | 0.947 (24,1)     | 0.550 (14,0)     | 0.157 (4,0)       | 0.170 (4,3)       |

## BELL SHAPED



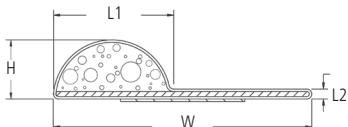
| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4630           | 0.070 (1,8)      | 0.180 (4,6)      |
| 4379           | 0.070 (1,8)      | 0.564 (14,3)     |
| 4387           | 0.080 (2,0)      | 0.675 (17,1)     |
| 4633           | 0.100 (2,5)      | 0.300 (7,6)      |
| 4131           | 0.140 (3,6)      | 0.500 (12,7)     |

## KNIFE SHAPED



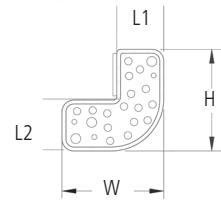
| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4797           | 0.106 (2,7)      | 0.445 (11,3)     |
| 4097           | 0.106 (2,7)      | 0.315 (8,0)      |
| 4796           | 0.110 (2,8)      | 0.450 (11,4)     |
| 4205           | 0.250 (6,4)      | 0.750 (19,1)     |
| 4106           | 0.312 (7,9)      | 0.707 (18,0)     |
| 4189           | 0.350 (8,9)      | 0.750 (19,1)     |

## P-SHAPED



| Profile Number | inches (mm)<br>H | inches (mm)<br>W | inches (mm)<br>L1 | inches (mm)<br>L2 |
|----------------|------------------|------------------|-------------------|-------------------|
| 4150           | 0.118 (3,0)      | 0.520 (13,2)     | 0.242 (6,1)       | 0.020 (0,50)      |
| 4699           | 0.145 (3,7)      | 0.520 (13,2)     | 0.150 (3,8)       | 0.020 (0,50)      |
| 4792           | 0.200 (5,1)      | 0.480 (12,2)     | 0.170 (4,3)       | 0.090 (2,3)       |
| 4537           | 0.374 (9,5)      | 0.887 (22,5)     | 0.500 (13,0)      | 0.051 (1,0)       |

## J-SHAPED



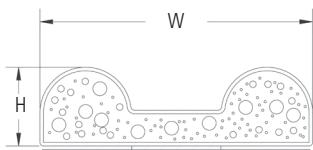
| Profile Number | inches (mm)<br>H | inches (mm)<br>W | inches (mm)<br>L1 | inches (mm)<br>L2 |
|----------------|------------------|------------------|-------------------|-------------------|
| 4117           | 0.130 (3,3)      | 0.130 (3,3)      | 0.060 (1,5)       | 0.065 (1,7)       |
| 4054           | 0.209 (5,3)      | 0.130 (3,3)      | 0.063 (1,6)       | 0.071 (1,8)       |
| 4502           | 0.400 (10,2)     | 0.300 (7,6)      | 0.175 (4,4)       | 0.140 (3,6)       |

All dimensions shown are in inches (millimeters) unless otherwise specified.

# FABRIC-OVER-FOAM PROFILE SELECTION GUIDE

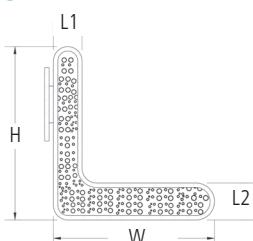


## DOUBLE D-SHAPED



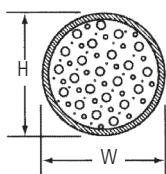
| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4299           | 0.110 (2,8)      | 0.382 (9,7)      |

## L-SHAPED



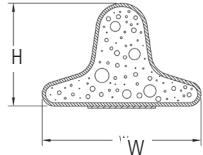
| Profile Number | inches (mm)<br>H | inches (mm)<br>W | inches (mm)<br>L1 | inches (mm)<br>L2 |
|----------------|------------------|------------------|-------------------|-------------------|
| 4469           | 0.216 (5,5)      | 0.354 (9,0)      | .138 (3,5)        | .118 (3,0)        |
| 4534           | 0.591 (15,0)     | 0.551 (14,0)     | .098 (2,5)        | .126 (3,2)        |

## ROUND SHAPED



| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4201           | 0.100 (2,5)      | 0.100 (2,5)      |
| 4372           | 0.125 (3,2)      | 0.125 (3,2)      |

## T-SHAPED



| Profile Number | inches (mm)<br>H | inches (mm)<br>W |
|----------------|------------------|------------------|
| 4349           | 0.157 (4,0)      | 0.244 (6,2)      |
| 4857           | 0.172 (4,4)      | 0.244 (6,2)      |
| 4A58           | 0.152 (3,9)      | 0.235 (6,0)      |



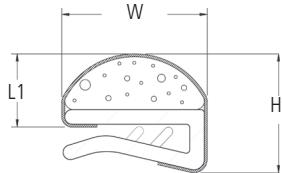
EMI ESSENTIALS

# FABRIC-OVER-FOAM I/O SELECTION GUIDE

## DIVERSE ASSEMBLY OPTIONS

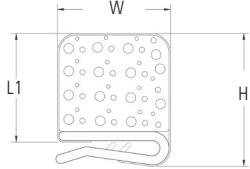
Multiple attachment options provide a variety of ways to install critical EMI products. Pressure Sensitive Adhesive (PSA) has been complemented with the Easy Peel® release liner and rigid clip configurations. These mechanical attachment options enable you to take advantage of existing tooling on doors and enclosures as well as offer alternate attachment methods to better meet design requirements.

### D-SHAPED CLIP



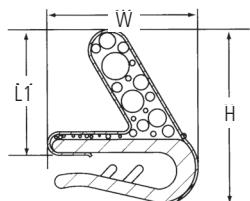
| Profile Number | inches (mm)<br>H | inches (mm)<br>W | inches (mm)<br>L1 |
|----------------|------------------|------------------|-------------------|
| 4110           | 0.203(5,2)       | 0.250 (6,4)      | 0.125 (3,2)       |
| 4111           | 0.243(6,2)       | 0.250 (6,4)      | 0.165 (4,2)       |
| 4039           | 0.304(7,7)       | 0.480 (12,2)     | 0.195 (5,0)       |
| 4033           | 0.35(8,9)        | 0.480 (12,2)     | 0.240 (6,1)       |
| 4121           | 0.358(9,1)       | 0.250 (6,4)      | 0.280 (7,1)       |
| 4040           | 0.41(10,4)       | 0.480 (12,2)     | 0.300 (7,6)       |
| 4038           | 0.43(10,9)       | 0.490 (12,4)     | 0.310 (7,9)       |
| 4043           | 0.43(10,9)       | 0.490 (12,4)     | 0.310 (7,9)       |
| 4085           | 0.43(10,9)       | 0.490 (12,4)     | 0.310 (7,9)       |
| 4041           | 0.568(14,4)      | 0.480 (12,2)     | 0.458 (11,6)      |

### RECTANGLE SHAPED CLIP



| Profile Number | inches (mm)<br>H | inches (mm)<br>W | inches (mm)<br>L1 |
|----------------|------------------|------------------|-------------------|
| 4913           | 0.440 (11,2)     | 0.375 (9,5)      | 0.360 (9,1)       |
| 4413           | 0.485 (12,3)     | 0.390 (9,9)      | 0.405 (10,3)      |

### C-FOLD WITH CLIP



| Profile Number | inches (mm)<br>H | inches (mm)<br>W | inches (mm)<br>L1 |
|----------------|------------------|------------------|-------------------|
| 4E42           | 0.335 (8,5)      | 0.284 (7,3)      | 0.240 (6,1)       |

All dimensions shown are in inches (millimeters) unless otherwise specified.

## PROFILE GASKET TOLERANCES

| Profile                     | Tolerance Inches (Millimeters) |
|-----------------------------|--------------------------------|
| Height & Width              | ± .020 (0,5)                   |
| Length Inches (Millimeters) | Tolerance Inches (Millimeters) |
| 1 to 6 (25,4 – 152,4)       | ± .030 (0,8)                   |
| >6 to 11 (152,4 – 279,4)    | ± .050 (1,3)                   |
| >11 to 48 (279,4 – 1219,2)  | ± .100 (2,5)                   |
| >48 to 70 (1219,2 – 1778,0) | ± .187 (4,7)                   |
| >70 to 96 (1778,0 – 2438,4) | ± .250 (6,4)                   |

For parts shorter than 1 inch (25,4 mm), or longer than 96" (2438,4 mm), please consult Engineering for tolerances. See back cover for contact information.

All dimensions shown are in inches (millimeters) unless otherwise specified.

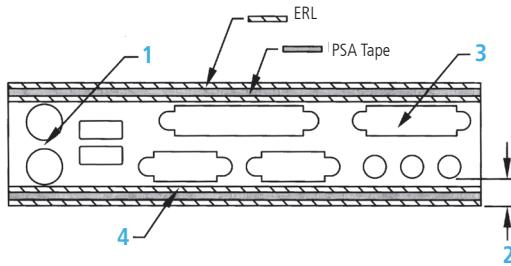


# FABRIC-OVER-FOAM I/O SELECTION GUIDE

The following pages show examples of standard I/O gaskets used in computer and telecommunication applications. If you have different requirements, the Engineering Department will design gaskets to the specifications you supply. Laird will design your I/O from a fully detailed print, drawing file, or the actual panel to which the gasket is to be applied.

| I/O GASKET TOLERANCES |                             |
|-----------------------|-----------------------------|
| Height tolerance      | $\pm .020"$ ( $\pm 0.5$ mm) |
| Width tolerance       | $\pm .020"$ ( $\pm 0.5$ mm) |
| Length tolerance      | $\pm .020"$ ( $\pm 0.5$ mm) |
| Cutout tolerance      | $\pm .020"$ ( $\pm 0.5$ mm) |

If different tolerances are required, please consult Engineering. See back cover for contact information.



## BASIC I/O GASKET DESIGN

1. Space between required cutouts should match or exceed 0.060" (1,5 mm).
2. Distance from the edge of a cutout should be at least 0.060" (1,5 mm) from the edge of the gasket. In most cases, a slot can be used in place of a hole that is positioned too close to the gasket edge.
3. All cutouts and locations are designed customer specifications.
4. Pressure Sensitive Adhesive (PSA) and Extended Release Liner (ERL) can be applied in parallel with the long edge of the gasket.

The recommended operating compression for Fabric-Over-Foam EMI gaskets will vary depending on the shape and size of the particular gasket. Typically, I/O gaskets should be compressed between 30% and 50% of the foam height.

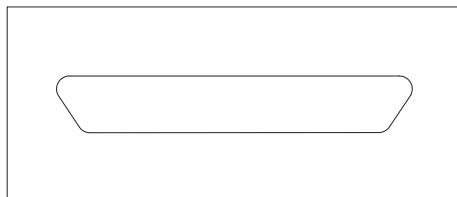


EMI ESSENTIALS

# FABRIC-OVER-FOAM I/O GASKET SELECTION GUIDE

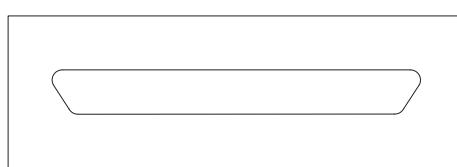
## SCSI + 50 PIN CONNECTOR, PART NUMBER 4164-FE

Usage: Peripheral, Hard Disk, CD-ROM



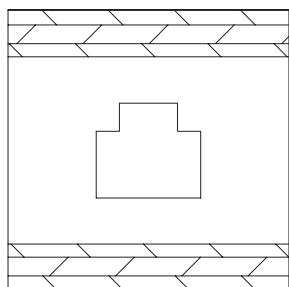
## SCSI + 68 PIN CONNECTOR, PART NUMBER 4164-FF

Usage: Peripheral, External Hard Drive



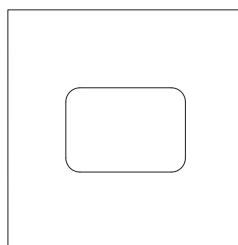
## RJ-11 CONNECTOR, PART NUMBER 4164-FH

Usage: Telecom, Ethernet Networking



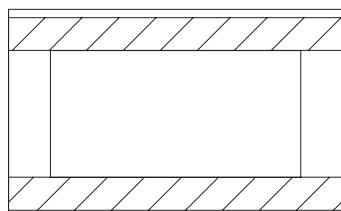
## USB PORT 4 PIN CONNECTOR, PART NUMBER 4219-EB

Usage: Multi-use, hot plug-and-play



## IEEE 1394 I/O 4 Pin Connector, Part Number 4051-EE

Usage: Plug-and-Play Serial Port (Digital Cameras, Printers, Keyboards, Mouse)



## D-SUB CONNECTOR SERIES

| Laird Part number | D-Sub Pins | D-Sub Design | PSA |
|-------------------|------------|--------------|-----|
| 4N64EA51N00138    | 9          | Female       | No  |
| 4N64EB51N00138    | 9          | Male         | No  |
| 4N64EC51N00171    | 15         | Female       | No  |
| 4N64ED51N00171    | 15         | Male         | No  |
| 4N64EE51N00225    | 25         | Female       | No  |
| 4N64EF51N00225    | 25         | Male         | No  |
| 4N64EG51N00290    | 37         | Female       | No  |
| 4N64EH51N00290    | 37         | Male         | No  |
| 4N64EJ51N00281    | 50         | Female       | No  |
| 4N64EK51N00281    | 50         | Male         | No  |
| 4N64EL51N00138    | 9          | Female       | Yes |
| 4N64EM51N00138    | 9          | Male         | Yes |
| 4N64EP51N00171    | 15         | Female       | Yes |
| 4N64ER51N00171    | 15         | Male         | Yes |
| 4N64ES51N00225    | 25         | Female       | Yes |
| 4N64ET51N00225    | 25         | Male         | Yes |
| 4N64EU51N00290    | 37         | Female       | Yes |
| 4N64EV51N00290    | 37         | Male         | Yes |
| 4N64EW51N00281    | 50         | Female       | Yes |
| 4N64EW51N00281    | 50         | Male         | Yes |

