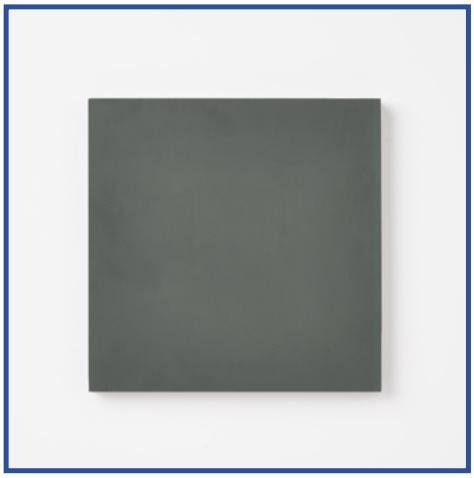
ARMATHERM™ GF

Armatherm™ GF Grade Thermal Break Pads

INTRODUCTION

Armatherm™ GF Grade Thermal Break Pads deliver high performance thermal insulation between interior and exterior steelwork and / or concrete to prevent thermal bridging. Cutting out thermal bridging stops conduction heat loss and prevents surface condensation from forming inside the building that can be due to cold transfer meeting warm air.





SPECIFICATIONS OF ARMATHERM™ GF

Density	ISO 1183	1450 kg/m3
Compressive Strength	ISO 3605	84.4 N/mm2
Modulus of Elasticity	EN ISO 527	2500 N/mm2
Tensile Strength	EN ISO 527	45 N/mm2
Thermal Conductivity	Din 52612	0.2 W/mK
Fire Rating	Din 4102 (D)	B2
Fire Rating	UL 94 (US)	V0
Max. Operating Temperature		+60°C
Min. Operating Temperature		0°C

MATERIAL STANDARD THICKNESSES

1.5mm	12mm
2mm	15mm
3mm	20mm
5mm	25mm
10mm	50mm

Armatherm Thermal Bridging Solutions LTD

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WASHER AND BUSHING

A thermal break should also be provided at the front side of the bolt head between the steel washer and face of the exterior steel. This prevents a thermal bridge through the bolt which would otherwise provide a path for heat flow through the thermal break assembly. Armatherm™ washers and bushings are recommended to eliminate this path and any potential for condensation within the building envelope. Contact us for assistance with your structural design or thermal calculations.

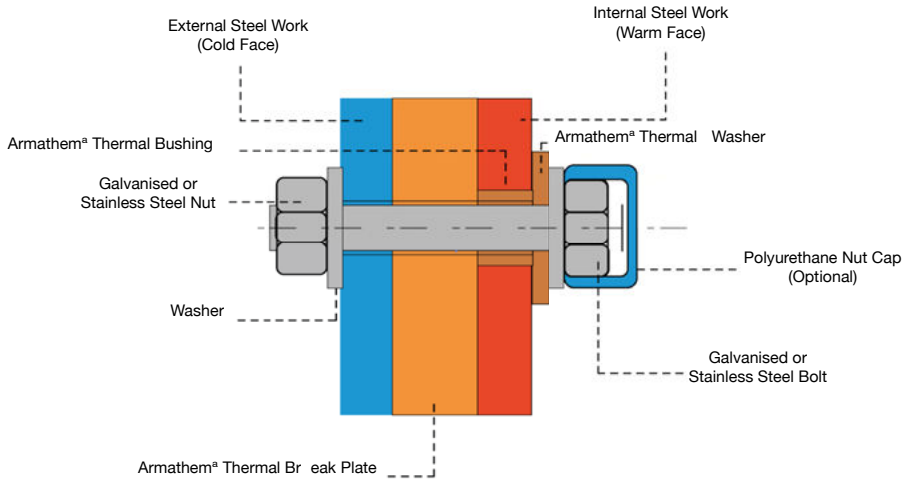


BUSHING DETAIL

Bolt Size	Hole in Pad	Bushing ID	Bushing OD	Hole in Structure	Bushing Length (Standard)
3/8"	0.44"	0.44"	0.57"	0.64"	0.375"
M12	14mm	14mm	20mm	22mm	10mm
1/2"	0.55"	0.55"	0.78"	0.85"	0.375"
M16	18mm	18mm	24mm	26mm	13mm
5/8"	0.70"	0.70"	1.0"	1.07"	0.50"
M20	22mm	22mm	28	30	13mm
3/4"	0.86"	0.86"	1.10"	1.17"	0.50"
M24	26mm	26mm	32mm	32mm	17mm
1"	1.05mm	1.05mm	1.25"	1.38"	0.625"
M28	30mm	30mm	36mm	39mm	20mm

WASHER DETAIL

Bolt Size	Washer ID	Washer OD	Thickness
3/8"	0.44"	1.18"	0.25"
M12	14mm	30mm	6mm
1/2"	0.55"	1.18"	0.25"
M16	18mm	40mm	6mm
5/8"	0.70"	1.57"	0.25"
M20	22mm	47mm	6mm
3/4"	0.86"	1.85"	0.25"
7/8"	0.94"	2"	0.25"
M24	26mm	50mm	6mm
1"	1.05mm	2.00"	0.25""
M28	30mm	65mm	6mm



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