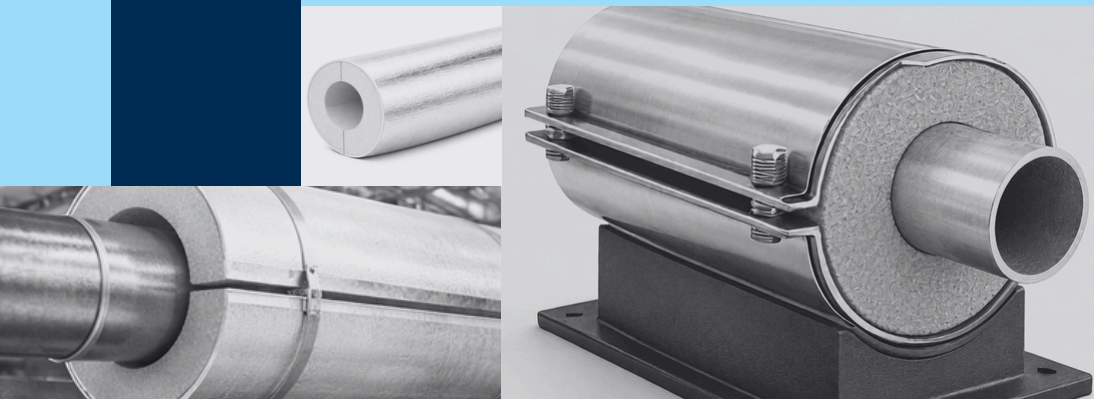




2026 TECHNICAL INSULATION BROCHURE



WELCOME



ISOPARTNER (formerly MW Insulation) is a leading UK fabricator and supplier of high-performance phenolic and PIR industrial insulation products. Backed by extensive industry expertise across commercial, technical and manufacturing disciplines, ISOPARTNER delivers precision-fabricated rigid foam insulation solutions for building services and industrial applications.

Our core fabricated product ranges include Supaphen Phenolic and Supapir Polyisocyanurate (PIR), available as pipe sections, pipe supports and cut sheets. These products can be supplied with a range of factory-applied finishes including aluminium foil, Mylar foil and Vapour Fas 62-05.

Supaphen phenolic insulation is also available with Proclad 150 factory-applied external jacketing, providing enhanced weather and UV resistance in plain silver, stucco, black or white finishes.

ISOPARTNER is the UK supplier of Supercel® phenolic duct boards and Supaduct PIR external duct boards, offering complete insulation solutions for ductwork applications.

Founded in 2011, the business has grown to become a trusted name in rigid foam insulation manufacturing and fabrication. Now operating as ISOPARTNER in the UK, the company forms part of a wider international group committed to technical excellence, innovation and sustained growth.

ISOPARTNER continues to invest in its manufacturing facilities, product testing, accreditation and certification to ensure full compliance with current product standards, consistent quality, and efficient production processes. This commitment to operational excellence is reinforced through recognised third-party accreditations and partnerships with leading international phenolic and PIR foam manufacturers, alongside respected ancillary component suppliers.

Our accreditations and product certifications include:

- ISO 14001:2015 – Environmental Management System (UKAS approved)
- BS EN ISO 9001:2015 – Quality Management System (UKAS approved)
- EN 15804:2012+A1:2013 – BRE Global Verified Environmental Product Declaration (Supaphen)
- BS EN 14314 – European product standard compliant, CE marked (Supaphen)
- EN 13501-1 – Fire testing certification for 25mm, 50mm and 75mm thick Supaphen foil-faced pipe insulation achieving B₁ s1 d0 / B s1 d0 classification

Specified with confidence, ISOPARTNER (MW Insulation) products are fully tested, accredited and supported by technically strong international supply partners.





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SUPAPHEN

HIGH PERFORMANCE INSULATION

The benefits are simple.

SUPAPHEN – Performance & Compliance

Fire Classification

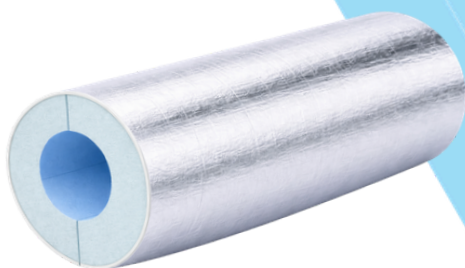
B₁s1-d0 / B₁s1-d0 in accordance with EN 13501-1

Compliance

CE marked in line with product standard BS EN 14314

Environmental Verification

Verified under the BRE Global Environmental Product Declaration (EPD) <BREG EN EPD No: 000698>.



Environmental Benefits

- Supaphen is 100% CFC and HCFC free, zero Ozone depletion potential and low GWP
- Supaphen is manufactured under BS EN ISO 9001:2015 (Quality Management Systems) and ISO 14001:2015 (Environmental Management Systems).

Fire & Smoke Safe

Supaphen foil-faced pipe sections have been tested in accordance with EN 13501-1, achieving B₁s1-d0 / B₁s1-d0 classifications at 25mm, 50mm and 75mm thicknesses.

Insulation Value

Supaphen delivers high thermal performance, with a maximum aged thermal conductivity (λ value) of 0.025 W/m·K at 10°C mean temperature, tested to EN 12667.

Additional Benefits

Supaphen is closed cell providing high moisture resistance

Supaphen pipe sections are bore coated with a passivating solution in line with major engineering specifications

Approvals & Compliance



SUPAPHEN: Data Sheet

SUPAPHEN PHENOLIC INSULATION

Supaphen is a high performance rigid phenolic thermal pipe insulation used primarily for the lagging of chilled, cold, hot and heating pipe work.

Supaphen is a high-performance rigid phenolic foam thermal pipe insulation section supplied by ISOPARTNER Fabrication Manchester Unit 2, Guinness Road Trading Estate, Guinness Road, Trafford Park, Manchester, M17 1SB.

Supaphen is CE marked and complies with the requirements of BS EN 14314:2009+A1:2013, Thermal insulation products for building equipment and industrial installations – Factory made phenolic foam (PF) products.

Supaphen is a thermally efficient insulating material with a maximum aged thermal conductivity (K value) of 0.025 W/m-K at 10°C mean temperature, tested in accordance with EN 12667.

Supaphen (40 kg/m³) achieves a Euroclass reaction to fire classification of B₁-s1,d0 and B-s1,d0 when tested to BS EN 13501-1. Supaphen is available in insulation thicknesses ranging from 15mm to 100mm.

Supaphen is verified under EN 15804:2012+A1:2013 and is supported by a BRE Global Verified Environmental Product Declaration (EPD), reflecting its environmental transparency and lifecycle performance.

Manufactured as a rigid phenolic block at a nominal density of 40 kg/m³, Supaphen is precision fabricated by ISOPARTNER (MW Insulation) into pipe sections of uniform thickness and close tolerances to ensure optimal fit and performance.

During manufacture, the foam is impregnated with a passivating silicate solution, and the inner bore of each pipe section is treated with a factory-applied dust-suppressing passivating coating in line with major engineering specifications.

Supaphen phenolic pipe insulation is supplied with a factory-applied foil-faced vapour-barrier jacket, providing protection against moisture ingress and condensation in accordance with BS 5970 and relevant manufacturer guidance.

Supaphen is available with various factory-applied facings, including HVAC foil-faced, tri-laminate Mylar foil, Proclad 150 and Temati Vaporfas multi-layer laminate cladding systems. The selection of facing may affect the reaction-to-fire performance classification.

Please contact Brett Sylph +44 7305 944025 for information and technical support.

PROPERTY	STANDARD	UNIT	VALUE
Nominal Density	–	kg/m³	40
Colour	–	–	Green
Thermal Conductivity (10°C mean)	EN 12667	W/m-K	0.025 (max aged)
Temperature Range	–	°C	-50 to +110
Compressive Strength (Parallel to Rise)	EN 826	kPa	≥150
Closed Cell Content	EN ISO 4590	%	>90
Dimensional Stability	EN 1604	%	<1.5
Water Absorption	EN 1609	kg/m²	<1.25
Fire Classification	EN 13501-1	–	B ₁ -s1,d0 / B-s1,d0

FIRE TEST CLASSIFICATION

European standard EN 13501-1 B₁ -s1, d0 25mm, 50mm and 75mm thick foiled pipe section

Environmental Commitment – We operate a zero waste to landfill policy with as much waste as possible being recycled and the remainder used as refuse derived fuel.

**For pipe work operating below 0 degrees Mylar foil is recommended*

KEY TECHNICAL FEATURES

EN 15804:2012+A1:2013
Environmental Product Declaration (EPD) - BRE Global Verified BS EN14314 Phenolic foam standard compliant.

Supaphen (40 kg/m³) achieves Euroclass reaction to fire ratings of B₁-s1,d0 and B-s1,d0 in accordance with BS EN 13501-1.

Thermally efficient - maximum aged thermal conductivity (K value) of 0.025 W/m-K at 10°C mean temperature, tested in accordance with EN 12667.

Environmentally responsible - CFC and HCFC free, with zero Ozone Depletion Potential (ODP) and a Global Warming Potential (GWP) of less than 5.

Bore coated in line with major engineering specifications.

Supaphen Approvals & Compliance



Approvals & Compliance



SUPAPHEN Pipe Supports

SUPAPHEN High Density Phenolic Pipe Supports

Supaphen pipe support inserts are manufactured from high density phenolic insulation to suit a full range of diameters and thicknesses covering copper, steel and plastic pipes.

Our insulated pipe supports are designed to maintain full continuity of the Supaphen phenolic insulation system, in accordance with the requirements of BS 5970 for load bearing supports, vapour sealing, and thermal performance.

Readily available in densities of 60Kg/m3, 80kg/m3 and 120kg/m3 in various lengths starting at 100mm. Supaphen pipe supports are supplied with a factory applied aluminium foil vapour. A half metal sleeve (or full if required) is applied as standard from 48mm diameter.

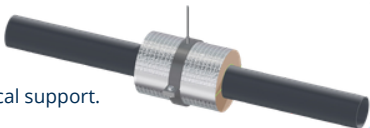
Supaphen HD supports are manufactured with a passivating silicate solution, treating the inner bore of pipe section with a factory applied dust suppressing bore coating solution.

Supaphen HD achieves a Euroclass reaction to fire rating of B₁-s1,d0 and B-s1,d0 tested to BS EN 13501-1. Supaphen can be supplied in thicknesses from 15-100mm.

Contact ISOPARTNER for further technical data on the specification and application of Supaphen pipe supports.

Supaphen pipe supports standard specification.

Please contact Brett Sylph +44 7305 944025 for information and technical support.



PIPE SIZE OD	SUPPORT LENGTH	METAL SPREADER PLATE	MAX SUPPORT CENTRES	DENSITY (kg/m³)
15–42mm	100mm	None	3m	60
48–67mm	100mm	1mm	4m	60
76–159mm	100mm	1mm	4m	80
168–273mm	125mm	1.5mm	6m	120
298–457mm	200mm	2mm	6m	120

PROPERTIES	DENSITY		
	60 kg/m³	80 kg/m³	120 kg/m³
Colour	Grey	Green	White (natural finish)
Thermal Conductivity (Aged)	0.031 W/m·K	0.034 W/m·K	0.045 W/m·K
Temperature Range	-50°C to +110°C	-50°C to +110°C	-50°C to +110°C
Compressive Strength (Parallel to Rise)	> 400 kPa	> 700 kPa	> 1000 kPa
Tensile Strength (Parallel to Rise)	> 400 kPa	NT (not tested)	NT (not tested)
Fire Classification	B ₁ -s1,d0 / B-s1,d0	B ₁ -s1,d0 / B-s1,d0	B ₁ -s1,d0 / B-s1,d0

Supaphen Approvals & Compliance



Approvals & Compliance



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*For pipe work operating below 0 degrees Mylar foil is recommended

**SUPAPHEN Phenolic Foiled Pipe
Insulation and Pipe Supports**

GUIDE SPECIFICATION

Application to HVAC Building Services.

All Supaphen phenolic pipe insulation thicknesses shall be determined in accordance with BS 5422:2023. Thickness selection shall be based on the service temperature, pipe size, operating conditions, and heat transfer requirements.

Installation – to comply with the requirements of BS5970 Code of practice for the thermal insulation of pipe work.

Before applying insulation, the surface to be insulated should be dry and free from scale and contamination. Insulation should be as close fitting as possible to the pipe surface. Water ingress into the insulation system should be prevented.

In the case of Stainless steel pipe work precautions should be taken to avoid any moisture ingress and the presence of water soluble chlorides. “To provide protection, aluminium foil of not less than 0.06mm should be applied to the stainless steel surface so that the insulation can be applied over the foil.”

All foil faced pipe section and pipe supports should be fully sealed at the longitudinal and circumferential joints with a matching aluminium foil tape. Elbows and fittings should be mitred or fabricated at site ensuring uniform thickness and snug fit, particularly on cold/chilled water to ensure continuous integrity of the vapour barrier.
Any external, low level and plant room insulation should be protected from weather/UVR/mechanical damage using appropriate site applied cladding/jacketing.

Supaphen phenolic pipe support blocks should be used to ensure continuity of the vapour barrier/thermal insulation. Pipe supports – Supaphen heavy density phenolic, bore coated, foil faced pipe support blocks, provided with a half metal sleeve, properties per MW Insulations data sheet.

**Please ensure care is taken when vapour sealing pipe supports to the adjoining pipework.*

PIPE OD (mm)	SUPPORT LENGTH	METAL SPREADER PLATE	MAX SUPPORT CENTRES	DENSITY (kg/m³)
15–42	100 mm	None	3 m	60
48–67	100 mm	1.0 mm	4 m	60
76–159	100 mm	1.0 mm	4 m	80
168–273	125 mm	1.5 mm	6 m	120
298–457	200 mm	2.0 mm	6 m	120

**Approvals &
Compliance**



SUPAPHEN Phenolic Foiled Pipe Insulation and Pipe Supports

Thickness Tables

Insulation Thickness to Control Heat Loss Based On BS5422:2023 tables 15A, 15B, 17A and 17B

HOT WATER AT 60°C
TABLE 17A

OD (mm)	Supaphen Standard Foil	Max Heat Loss (W/m)
≤ 17.2	15mm	6.6
≤ 21.3	15mm	7.13
≤ 26.9	15mm	7.83
≤ 33.7	20mm	8.62
≤ 42.2	20mm	9.72
≤ 48.3	20mm	10.21
≤ 60.3	20mm	11.57
≤ 76.1	25mm	13.09
≤ 88.9	25mm	14.58
≤ 114.3	25mm	17.2
≤ 139.7	25mm	19.65
≤ 168.3	25mm	22.31
≤ 219.1	30mm	27.53
≤ 273	30mm	32.4
≥ 273	30mm	32.4

LOW TEMP HTG WATER < 95°C
TABLE 15A

OD (mm)	Supaphen Standard Foil	Max Heat Loss (W/m)
≤ 17.2	15mm	8.9
≤ 21.3	15mm	9.28
≤ 26.9	20mm	10.06
≤ 33.7	20mm	11.07
≤ 42.2	20mm	12.3
≤ 48.3	25mm	12.94
≤ 60.3	25mm	14.45
≤ 76.1	25mm	16.35
≤ 88.9	25mm	17.91
≤ 114.3	30mm	20.77
≤ 139.7	30mm	23.71
≤ 168.3	30mm	26.89
≤ 219.1	30mm	32.54
≤ 273	35mm	38.83
≥ 273	35mm	38.83

Enhanced Thickness

HOT WATER AT 60°C
TABLE 17B

OD (mm)	Supaphen Standard Foil	Max Heat Loss (W/m)
≤ 17.2	15mm	6.04
≤ 21.3	20mm	6.45
≤ 26.9	20mm	7
≤ 33.7	20mm	7.71
≤ 42.2	25mm	8.46
≤ 48.3	25mm	9.01
≤ 60.3	25mm	9.94
≤ 76.1	30mm	11.25
≤ 88.9	30mm	12.17
≤ 114.3	30mm	14.29
≤ 139.7	35mm	16.09
≤ 168.3	35mm	18.24
≤ 219.1	35mm	22.06
≤ 273	35mm	25.95
≥ 273	35mm	25.95

LOW TEMP HTG WATER < 95°C
TABLE 15B

OD (mm)	Supaphen Standard Foil	Max Heat Loss (W/m)
≤ 17.2	20mm	7.78
≤ 21.3	20mm	8.42
≤ 26.9	20mm	9.05
≤ 33.7	25mm	9.86
≤ 42.2	25mm	10.83
≤ 48.3	25mm	11.42
≤ 60.3	30mm	12.61
≤ 76.1	30mm	14.12
≤ 88.9	35mm	15.28
≤ 114.3	35mm	17.51
≤ 139.7	40mm	19.72
≤ 168.3	40mm	22.34
≤ 219.1	40mm	26.61
≤ 273	45mm	30.91
≥ 273	45mm	30.91

ISOPARTNER Fabrication Supaphen Phenolic Thermal Conductivity 0.025 W/mK

Thermal conductivity to match the fixed thermal conductivity listed in BS5422:2023. Thermal performance can vary with changes in operating and ambient temperature - please contact MW insulation for actual heat losses for your specific pipework..

SUPAPHEN Phenolic Foiled Pipe
Insulation and Pipe Supports

Recommended Thickness Tables

Cold / Chilled Water to Control Heat Gain & Condensation Control Based On BS522 2023
Tables 6, 8, 10 & 11.

CHILLED WATER AT 0°C TO 5°C			CHILLED WATER AT 5°C TO 10°C		
OD (mm)	Supaphen Standard Foil	Max Heat Loss (W/m)	OD (mm)	Supaphen Standard Foil	Max Heat Loss (W/m)
≤ 17.2	25	3.47	≤ 17.2	20	2.97
≤ 21.3	25	3.81	≤ 21.3	20	3.27
≤ 26.9	25	4.18	≤ 26.9	20	3.58
≤ 33.7	30	4.6	≤ 33.7	25	4.01
≤ 42.2	30	5.11	≤ 42.2	25	4.53
≤ 48.3	30	5.45	≤ 48.3	25	4.82
≤ 60.3	35	6.17	≤ 60.3	30	5.48
≤ 76.1	35	6.7	≤ 76.1	30	6.3
≤ 88.9	40	7.77	≤ 88.9	30	6.9
≤ 114.3	40	9.15	≤ 114.3	35	8.31
≤ 139.7	45	10.45	≤ 139.7	35	9.49
≤ 168.3	45	11.86	≤ 168.3	35	10.97
≤ 219.1	50	14.61	≤ 219.1	40	13.57
≤ 273	50	17.48	≤ 273	40	16.28

COLD WATER AT 10°C		
OD (mm)	Supaphen Standard Foil	Max Heat Loss (W/m)
≤ 17.2	15	2.48
≤ 21.3	15	2.72
≤ 26.9	15	3.05
≤ 33.7	20	3.41
≤ 42.2	20	3.86
≤ 48.3	20	4.11
≤ 60.3	20	4.78
≤ 76.1	20	5.51
≤ 88.9	20	6.17
≤ 114.3	25	7.28
≤ 139.7	25	8.52
≤ 168.3	25	9.89
≤ 219.1	30	12.27
≤ 273	30	14.74

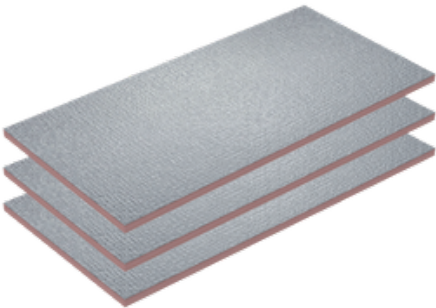
SUPERCEL: ALUMEN AIR

Data Sheets

Distributed in the UK by ISOPARTNER (MW Insulation)

PRODUCT DETAILS

SUPERCEL® ALUMEN Air is a high performance rigid thermoset designed for ductworks, especially those requiring non-fibrous material. It comprises a phenolic resin foam insulation core with an external 25 micron aluminium vapor barrier foil facing reinforced by 5x5mm glass scrim on the upper side and a saturated glass tissue facing on the lower side.



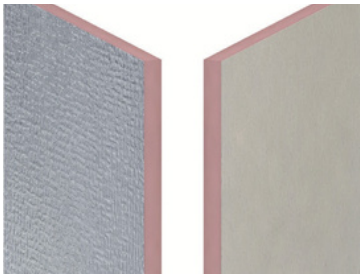
SUGGESTED APPLICATIONS

- » Insulation of industrial and commercial ductworks
- » Insulation of conditioned or unconditioned area ductworks, plenums and associated equipment.

PANEL SIZE:

- » 1200 x 600 mm (STANDARD)
- » 1200 x 1200 mm
- » 1200 x 2400 mm

PROPERTY	VALUE
THERMAL CONDUCTIVITY λ_0	0,021 W/MK (at 10°C mean temperature)
REACTION TO FIRE EUROCLASS	B - s ₁ , d ₀
PROFILES	Standard flat profile edges
FACINGS	25 micron aluminium vapor barrier foil reinforced by 5x5mm glass scrim / Saturated glass tissue



ITEM SPECIFICATION

Thermal insulation performed using SUPERCEL® Alumen Air - a closed cell phenolic foam boards, with dimensions x..... mm, thickness mm, CE marked according to the EN13166 standard, EPD verified (Environmental Product Declaration), having a declared thermal conductivity $\lambda=.....$ W/mK, a declared thermal resistance: $R_0=.....$ mK/W, a reaction to fire Euroclass B-s₁,d₀ according to EN13501-1; with compressive strength ≥ 120 kPa, for the Insulation of cavity walls, of heated floors and of ceilings or roofs.

*it is advisable to complete the specifications by indicating the most relevant characteristics and performances for the specific application



*continues on next page

SUPERCEL: ALUMEN AIR

Data Sheets

TECHNICAL CHARACTERISTICS (TYPICAL VALUES)

HARMONIZED PRODUCT STANDARD

EN 14314:2008+A1:2013 - THERMAL INSULATION FOR PIPING EQUIPMENT OR INDUSTRIAL INSTALLATIONS - FACTORY MADE PHENOLIC FOAM

Property	Unit	Thickness (d ₀) (mm)	20	25	30	35	40	50	60
Thermal conductivity λ_0	-50°C mean	W/mK				0.025			
	-20°C mean					0.023			
	0°C mean					0.022			
	10°C mean	W/mK				0.021			
	20°C mean	W/mK				0.022			
	50°C mean	W/mK				0.026			
	90°C mean	W/mK				0.031			
Thermal resistance R	m ² K/W		0.95	1.19	1.43	1.67	1.90	2.38	2.86
Thermal resistance R _s	mK/W		0.95	1.15	1.40	1.65	1.90	2.35	2.85
Thermal Transmittance U _s	W/m ² K		1.05	0.87	0.71	0.61	0.53	0.43	0.35
Durability of Thermal Resistance against heat, weathering, aging and degradation			Aged values of thermal resistance and thermal conductivity						

PROPERTIES	NORMS	UNITS	VALUES						CODE/ CLASS
			20	25	30	40	50	60	
Thickness (d ₀)	-	mm							
Thickness tolerance	EN 823	mm	± 2				-2/+3		T1
Length	EN 822	mm	600 to 2400						L
Width	EN 822	mm	1200						W
Compressive strength	EN 826	kPa	≥ 120						CS(Y)120
Dimensional stability	EN 1604	%							DS(70,90); DS(-20,)
Variation thickness: 48h at 70±2°C & 90±5% R.H. 48h a -20°C			≤ 1,5 % in reduction						
Variation length and width: 48h at 70±2°C & 90±5% R.H. 48h a -20°C			≤ 1,5 % in absolute value						
Short term water absorption	EN 1609	kg/m²	≤ 0,75						WS3
Long term water absorption	EN12087	kg/m²	≤ 1,00						WL(P)4
Reaction to fire	EN 13501-1	Euroclass	B _{s1} d ₀						RTf
Water vapor permeability and transmission	EN 12086	μ	> 10.000						MU
Apparent mass	EN 1602	kg/m³	37,5 ± 2,5						AD
Operating temperature range	-	°C	-80 / +120						ST(-)/ ST(+)
Specific heat capacity	-	J/kgK	1750						C

SUPAPIR: Data Sheet



CFC & HCFC free rigid PIR (Polyisocyanurate) insulation.

Supapir is a CFC & HCFC free rigid closed cell Polyisocyanurate insulation. ISOPARTNER (MW Insulation) fabricates Supapir as cut preformed pipe sections, sheets or slabs.

ISOPARTNER manufactures pipe sections, sheets and radiussed and bevelled segments in plain or with a factory applied aluminium foil vapour barrier. Alternative factory applied facings are also available - Tri-laminate cryogenic vapour barrier (Mylar type) and Proclad 150 facings.

Supapir pipe sections are maufactured as 1 metre lengths. Pipe sizes 245mm od and above will be supplied as radiussed and bevelled segments.

Supapir is also available in a range of densities including "Cryogenic" grade for use on very low temperature applications such as LNG.

Complies with the requirements of BS EN 14308:2009+A1:2013

PROPERTIES	VALUES / UNITS	
Nominal Density	EN 1602	35 kg/m ³ ± 2
Colour	–	Green / Yellow
Thermal Conductivity	EN 12667	0.022 W/m-K at 10°C mean temp (initial value)
Temperature Range	–	-120°C to +120°C
Compressive Strength	E-modulus compr. strength	>150 kPa >4000 kPa
Water Absorption	EN 12087	< 2%
Closed Cell Content	ISO 4590	> 90%
Fire Test Classification (Standard Foil Faced)	EN 13501-1	E _L

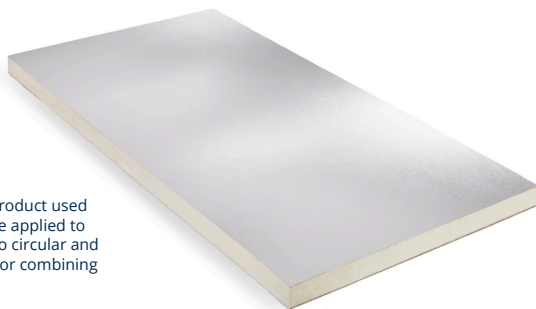
Environmental Commitment - ISOPARTNER (MW Insulation) operate a zero waste to landfill policy with as much waste as possible being recycled and the remainder used as refused derived fuel.

Disclaimer - The values provided are typical and accurate but subject to normal variation. The information contained on this data sheet is believed to be correct at the time of publication. ISOPARTNER (MW Insulation) reserves the right to amend the product/data specification without notice. ISOPARTNER makes no guarantees nor provides warranties about the suitability of the product.

Approvals & Compliance



SUPADUCT: Data Sheet



SupaDuct insulation is a premium, high performing insulation product used for external ductwork. SupaDuct is a rigid insulation board, to be applied to HVAC and building service ductwork. SupaDuct can be applied to circular and flat ductwork, together with associated equipment and is ideal for combining with cladding systems due to its lightweight but rigid form.

Supaduct is made of rigid polyisocyanurate (PIR) foam, faced with a multilayer foil vapour barrier on both sides.

CE Marking: Supaduct is tested and CE marked in accordance with BS EN 14308: 2009 + A1: 2013 (Thermal insulation products for building equipment and industrial installations.) Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products.

Thermal Performance

Temperature °C	-20 °C	0 °C	10 °C	19 °C	25 °C	50 °C	80 °C
Thermal conductivity W/m.k	0.020	0.022	0.023	0.024	0.024	0.028	0.032

Quality control

We're committed to providing the highest quality products to the marketplace and as such, has rigorous process control and quality measures in place throughout the supply chain. SupaDuct is manufactured under the management systems ISO 14001 and ISO 9001 and is currently supported by an EPD verified by the BRE.

*Please contact us for the Material safety data sheet

Technical Data

- Thermal conductivity: 0.023W/m.k at 10°C mean (to BS EN 14308: 2009 + A1: 2013)
- Compressive strength: 120kPa at 10% compression
- Vapour barrier Facing: Low emissivity plain multilayer foil
- Fire performance: Euroclass reaction to fire rating of F tested to BS EN 13501-1: 2018
- Dimension: 1200 x 2400
- GWP: Classified as 'Low'
- Nominal density : 30kg/m3 +/-

Some external ductwork may require increased fire resistance/ratings depending on the application & location - in this instance, an engineering assessment should be made via a qualified individual.

*Please refer to the DoP for further details

Installation

Installation guidance and good practice can be found within the TICA (Thermal Insulation Contractors Association) guide:

INSULATION AND CLADDING OF EXTERNAL SHEET METAL DUCTWORK

www.online.flippingbook.com

Recommended thickness installed is to comply with BS5422:2023 - (Method for specifying thermal insulating materials for pipes, tanks, vessels, ductwork and equipment operating within the temperature range -40°C to +700°C)

Table 12 - Minimum insulation thickness for condensation control conduct work carrying chilled air in ambient conditions: indoor still air temp +25 °C, relative humidity 80%, dew point temperautre 21.3 °C

Table 13 - Indicative thickness of insulation for ductowrk carrying warm air to control heat loss

Table 14 - Indicative thickness of insulation for chilled and dual purpose ducting to control heat transfer

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**MW Insulation Ltd
Approvals &
Compliance**



Additional Product Portfolio

Margel™ Corrosion Solutions

Corrosion Under Insulation (CUI) Protection

External pipe corrosion, commonly referred to as Corrosion Under Insulation (CUI), is a globally recognised issue affecting metallic pipework and ducting systems.

The severity of corrosion is influenced by several factors, including:

- Environmental conditions
- Application type
- Maintenance practices
- Presence of moisture, oxygen, and contaminants

When these elements combine, an electrochemical process begins that leads to material degradation and long-term asset damage.



Margel™ Technology

Margel™ is an advanced corrosion protection formulation combining specialised organic compounds designed to release a low-pressure, slow-acting protective vapour.

This vapour:

- Migrates through enclosed air spaces
- Actively seeks exposed metallic substrates
- Chemically adsorbs onto metal surfaces
- Forms a microscopic protective barrier

The resulting film blocks:

- Oxygen ingress
- Moisture contact
- Electrochemical corrosion processes

Margel™ Aero 501 (Aerosol)

Margel™ Aero 501 delivers corrosion-inhibiting vapour through an aerosol application system.

Performance characteristics:

- Most effective within hermetically sealed environments
- Vapour disperses throughout enclosed spaces to protect metal surfaces
- Provides protective coating even within vented systems

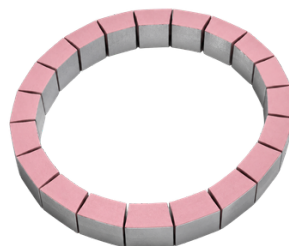
Where ventilation is present, protection remains effective; however, reduced vapour retention may limit the system's self-healing capability if coatings are damaged or removed.

HD Duct Supports

High-Density Phenolic Insulation Supports

ISOPARTNER duct insulation inserts are high-density phenolic support solutions engineered for ductwork systems requiring structural insulation performance.

HD supports are rigid, load-bearing insulation strips installed between the support bracket and ductwork to distribute mechanical loads while maintaining thermal performance.



Applications & Performance

Supercel HD duct supports are suitable for circular and flat ductwork systems, associated HVAC equipment, and applications requiring integration with external cladding. Their lightweight yet rigid construction provides effective load distribution while maintaining insulation continuity and long-term thermal performance.

Manufactured as factory-made phenolic foam (PF) insulation products in accordance with BS EN 14314:2009+A1:2013, Supercel HD supports are CE marked and designed for use in building equipment and industrial installations.

Typical technical characteristics include a density of 55–60 kg/m³ and a compressive strength of 250 kPa, delivering reliable structural support without compromising insulation efficiency.



CERTIFICATE OF REGISTRATION

The management system of certificate number **200742**

MW Insulation Limited

Unit 2, Guinness Road Trading Estate, Trafford Park, Manchester, M17 1SB, United Kingdom

has been assessed and certified as meeting the requirements of:

ISO 14001:2015

Sales, manufacture, supply and delivery of thermal pipe insulation and pipe supports to specifiers, building services engineers, contractors and distributors, in the UK and Europe

Further clarifications regarding the scope of this certificate and the applicability of requirements may be obtained by consulting the certifier.



8289



Valid from:

Initial certification: 04 March 2014

Latest issue: 31 March 2025

Expiry date: 11 April 2028

Subject to annual assessments.

Authorised by

A handwritten signature in black ink, appearing to read 'Mike Tims'.

Mike Tims
Chief Executive Officer

british-assessment.co.uk

Certificate issued by Amtivo Group Limited T/A British Assessment Bureau Ltd.
Certification is conditional on maintaining the required performance standards throughout the certified period of registration.
Amtivo Group Limited, 30 Tower View, Kings Hill, Kent, ME19 4UY.

CERTIFICATE OF REGISTRATION

The management system of certificate number **241018**

MW Insulation Limited

Unit 2, Guinness Road Trading Estate, Trafford Park, Manchester, M17 1SB, United Kingdom

has been assessed and certified as meeting the requirements of:

ISO 9001:2015

Sales, manufacture, supply and delivery of thermal pipe insulation and pipe supports to specifiers, building services engineers, contractors and distributors, in the UK and Europe.

Further clarifications regarding the scope of this certificate and the applicability of requirements may be obtained by consulting the certifier.



8289



Valid from:

Initial certification: 11 April 2013

Latest issue: 31 March 2025

Expiry date: 11 April 2028

Subject to annual assessments.

Authorised by



Mike Tims
Chief Executive Officer

british-assessment.co.uk

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Amtivo Group Limited, 30 Tower View, Kings Hill, Kent, ME19 4UY.

BRE Global Verified EDP

EN 15804:2012+A2:2019 Certificate



Statement of Verification

BREG EN EPD No.: 000698

This is to verify that the

Issue 01

Environmental Product Declaration

provided by:

MW Insulation Ltd

is in accordance with the requirements of:

EN 15804:2012+A2:2019

and

BRE Global Scheme Document SD207

This declaration is for:

1linearmetre ofSupaphen phenolic pipe insulation of specified pipe diameter and insulation thickness with the weight of 1kg/m



MW Insulation Ltd
Unit 2
Guinness Road Trading Estate
Trafford Park
Manchester
M17 1SB



UK Manufacturers of
Thermal Insulation Products
www.mwinsulation.co.uk





Signed for BRE Global Ltd

Hayley Thomson
Operator

22 April 2025
Date of this Issue

22 April 2025
Date of First Issue

21 April 2030
Expiry Date



This Statement of Verification is issued subject to terms and conditions (for details visit www.greenbooklive.com/terms).
To check the validity of this statement of verification please, visit www.greenbooklive.com/check or contact us.
BRE Global Ltd., Garston, Watford WD25 9XX.
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: Enquiries@breglobal.com



ISOPARTNER

T: 0161 877 1608

E: info@mwinsulation.co.uk

W: <https://www.isopartneruk.com/>

A: ISOPARTNER Fabrication Manchester
Unit 2, Guinness Road Trading Estate, Guinness
Road, Trafford Park, Manchester, M17 1SB.



M W Insulation Ltd