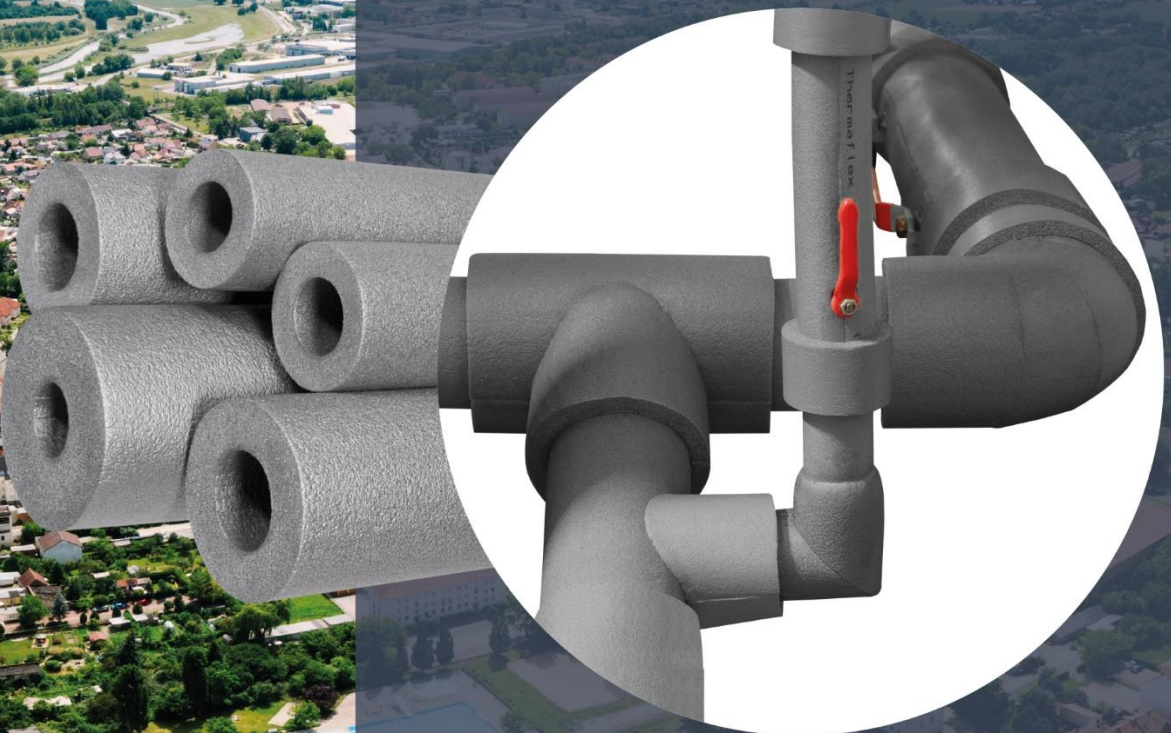


INSULATION SOLUTIONS





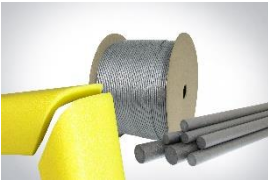

- ✓ No condensation
- ✓ Hassle-free insulation
- ✓ Highest insulation value



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ThermaSmart® PRO Tube

Thermal Insulation by Thermaflex®

Fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality polyolefin foam

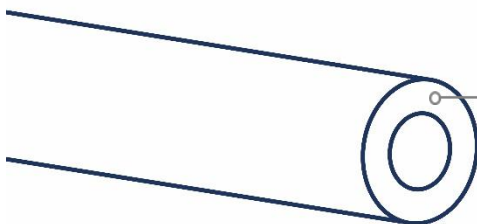


Benefits

- Condensation free system for life-time installed by qualified insulator
- Low risk of corrosion under the insulation
- Consistent performance - Damage free, robust insulation material
- Safety - Excellent fire and smoke behavior
- Fast fabrication of fitting insulation - Welding technique up to ID42mm
- Gain point for Green building program - Cradle to Cradle Certified™ Bronze, EPD, RoHS

Applications

- All HVAC-R systems: Heating, Cooling, Air conditioning and Refrigeration



Design
Polyolefin foam
durable insulation material

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	18 - 40	-
Structure	-	Fine, closed-cells	-
Color	-	Anthracite	-
Thermal properties			
Service temperature range	°C	-80 to +95	-
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.035 @ 10°C 0.038 @ 40°C	EN ISO 8497
Fire properties			
SBI classification wall thickness 9mm – 25mm wall thickness 30mm	-	B _L -s1,d0 F _L	EN 13501-1
British standard	-	Class 1	BS 476 Part 7
British standard	-	Class 0	BS 476 Part 6
Flammability standard	-	HF-1	UL94
Water resistance properties			
Water vapor diffusion	μ	≥ 10,000	EN 13469
Water absorption	kg/m ²	0.02	EN 13472

Availability

- Standard product length is 2m (198-204cm) in carton boxes (205x60x40cm)
- Tubes without an incision

Tube Insulation				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		6 (5.0-6.5)	9 (8.0-10.0)	13 (12.0-14.0)
6	7.0-8.5	3004-006006-000	3004-009006-000	
8	9.0-10.5	3004-006008-000	3004-009008-000	3004-013008-000
10	11.0-12.5	3004-006010-000	3004-009010-000	3004-013010-000
12	13.0-15.0	3004-006012-000	3004-009012-000	3004-013012-000
15	16.0-17.5	3004-006015-000	3004-009015-000	3004-013015-000
18	19.0-20.5	3004-006018-000	3004-009018-000	3004-013018-000
20	21.0-22.5	3004-006020-000	3004-009020-000	3004-013020-000
22	23.0-24.5	3004-006022-000	3004-009022-000	3004-013022-000
25	26.0-27.5	3004-006025-000	3004-009025-000	3004-013025-000
28	29.0-30.5	3004-006028-000	3004-009028-000	3004-013028-000
32	33.0-35.0		3004-009032-000	3004-013032-000
35	36.0-38.0	3004-006035-000	3004-009035-000	3004-013035-000
40	42.0-43.5		3004-009040-000	3004-013040-000
42	44.0-46.0		3004-009042-000	3004-013042-000
48	50.0-52.0		3004-009048-000	3004-013048-000
50	52.0-54.0		3004-009050-000	3004-013050-000
54	56.0-58.0		3004-009054-000	3004-013054-000

57	59.0-61.0	3004-009057-000	3004-013057-000
60	62.0-64.0	3004-009060-000	3004-013060-000
64	65.0-67.5	3004-009063-000	3004-013063-000
70	72.0-74.0	3004-009070-000	3004-013070-000
76	77.0-79.5	3004-009076-000	3004-013076-000
80	82.0-84.0		3004-013080-000
89	91.5-94.5		3004-013089-000
102	105.0-108.0		3004-013102-000
108	111.5-114.0		3004-013108-000
114	117.0-120.0		3004-013114-000
125	117.0-120.0		3004-013125-000

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		19 (18.0-20.0)	25 (24.0-26.0)	30 (29.0-31.0)
6	7.0-8.5			
8	9.0-10.5			
10	11.0-12.5	3004-019010-000	3004-025010-000	
12	13.0-15.0	3004-019012-000	3004-025012-000	3004-030012-000
15	16.0-17.5	3004-019015-000	3004-025015-000	3004-030015-000
18	19.0-20.5	3004-019018-000	3004-025018-000	3004-030018-000
20	21.0-22.5	3004-019020-000	3004-025020-000	3004-030020-000
22	23.0-24.5	3004-019022-000	3004-025022-000	3004-030022-000
25	26.0-27.5	3004-019025-000	3004-025025-000	3004-030025-000
28	29.0-30.5	3004-019028-000	3004-025028-000	3004-030028-000
32	33.0-35.0	3004-019032-000	3004-025032-000	3004-030032-000
35	36.0-38.0	3004-019035-000	3004-025035-000	3004-030035-000
40	42.0-43.5	3004-019040-000	3004-025040-000	3004-030040-000
42	44.0-46.0	3004-019042-000	3004-025042-000	3004-030042-000
48	50.0-52.0	3004-019048-000	3004-025048-000	3004-030048-000
50	52.0-54.0	3004-019050-000	3004-025050-000	3004-030050-000
54	56.0-58.0	3004-019054-000	3004-025054-000	3004-030054-000
57	59.0-61.0	3004-019057-000	3004-025057-000	3004-030057-000
60	62.0-64.0	3004-019060-000	3004-025060-000	3004-030060-000
64	65.0-67.5	3004-019063-000	3004-025063-000	3004-030063-000
70	72.0-74.0	3004-019070-000	3004-025070-000	3004-030070-000
76	77.0-79.5	3004-019076-000	3004-025076-000	3004-030076-000
80	82.0-84.0	3004-019080-000	3004-025080-000	3004-030080-000
89	91.5-94.5	3004-019089-000	3004-025089-000	3004-030089-000
102	105.0-108.0	3004-019102-000	3004-025102-000	3004-030102-000
108	111.5-114.0	3004-019108-000	3004-025108-000	3004-030108-000
114	117.0-120.0	3004-019114-000	3004-025114-000	3004-030114-000
125	117.0-120.0	3004-019125-000		

- In coils up to Ø28 mm and wall thickness 6-13 mm, in carton boxes (61x61x25cm)



Tube Insulation				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		6 (5.0-6.5)	9 (8.0-10.0)	13 (12.0-14.0)
6	7.0-8.5	3104-006006-000		
8	9.0-10.5	3104-006008-000	3104-009008-000	3104-013008-000
10	11.0-12.5	3104-006010-000	3104-009010-000	3104-013010-000
12	13.0-15.0	3104-006012-000	3104-009012-000	3104-013012-000
15	16.0-17.5	3104-006015-000	3104-009015-000	3104-013015-000
18	19.0-20.5	3104-006018-000	3104-009018-000	3104-013018-000
22	23.0-24.5	3104-006022-000	3104-009022-000	3104-013022-000
28	29.0-30.5	3104-006028-000	3104-009028-000	3104-013028-000

- Pre-fabricated parts



2-elements elbow				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		9 (8.0-10.0)	13 (12.0-14.0)	20 (18.0-20.0)
8	9.0-10.5		3504-013008-001	
10	11.0-12.5		3504-013010-001	
12	13.0-15.0		3504-013012-001	
15	16.0-17.5		3504-013015-001	
18	19.0-20.5	3504-009018-001	3504-013018-001	
20	21.0-22.5	3504-009020-001	3504-013020-001	
22	23.0-24.5	3504-009022-001	3504-013022-001	3504-020022-001
25	26.0-27.5	3504-009025-001	3504-013025-001	
28	29.0-30.5	3504-009028-001	3504-013028-001	3504-020028-001
32	33.0-35.0		3504-013032-001	
35	36.0-38.0	3504-009035-001	3504-013035-001	3504-020035-001
38	36.0-38.0		3504-013038-001	
42	44.0-46.0	3504-009042-001	3504-013042-001	3504-020042-001
48	50.0-52.0	3504-009048-001	3504-013048-001	3504-020048-001
54	56.0-58.0	3504-009054-001	3504-013054-001	3504-020054-001
60	62.0-64.0	3504-009060-001	3504-013060-001	3504-020060-001
64	65.0-67.5	3504-009063-001	3504-013063-001	3504-020063-001
76	77.0-79.5	3504-009076-001	3504-013076-001	
89	91.5-94.5		3504-013089-001	
108	111.5-114.0		3504-013108-001	
114	117.0-120.0		3504-013114-001	

4-elements elbow

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		9 (8.0-10.0)	13 (12.0-14.0)	20 (18.0-20.0)
8	9.0-10.5		3504-013008-041	
10	11.0-12.5		3504-013010-041	
12	13.0-15.0		3504-013012-041	
15	16.0-17.5	3504-009015-041	3504-013015-041	3504-020015-041
18	19.0-20.5	3504-009018-041	3504-013018-041	3504-020018-041
20	21.0-22.5	3504-009020-041	3504-013020-041	
22	23.0-24.5	3504-009022-041	3504-013022-041	3504-020022-041
25	26.0-27.5	3504-009025-041	3504-013025-041	
28	29.0-30.5	3504-009028-041	3504-013028-041	3504-020028-041
32	33.0-35.0		3504-013032-041	
35	36.0-38.0	3504-009035-041	3504-013035-041	3504-020035-041
38	36.0-38.0		3504-013038-041	
42	44.0-46.0	3504-009042-041	3504-013042-041	3504-020042-041
48	50.0-52.0	3504-009048-041	3504-013048-041	3504-020048-041
54	56.0-58.0	3504-009054-041	3504-013054-041	3504-020054-041
60	62.0-64.0	3504-009060-041	3504-013060-041	3504-020060-041
64	65.0-67.5	3504-009063-041	3504-013063-041	3504-020063-041
70				3504-020070-041
76	77.0-79.5	3504-009076-041	3504-013076-041	
89	91.5-94.5		3504-013089-041	3504-020089-041
108	111.5-114.0		3504-013108-041	
114	117.0-120.0		3504-013114-041	

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]	
		25 (24.0-26.0)	30 (29.0-31.0)
28	29.0-30.5		3504-030028-041
35	36.0-38.0		3504-030035-041
54	56.0-58.0	3504-025054-041	
60	62.0-64.0	3504-025060-041	
76	77.0-79.5	3504-025076-041	
108	111.5-114.0	3504-025108-041	
114	117.0-120.0		3504-030114-041

T-pieces

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		9 (8.0-10.0)	13 (12.0-14.0)	20 (18.0-20.0)
8	9.0-10.5		3504-013008-301	
10	11.0-12.5		3504-013010-301	
12	13.0-15.0		350-013012-301	
15	16.0-17.5	3504-009015-301	3504-013015-301	3504-020015-301
18	19.0-20.5	3504-009018-301	3504-013018-301	3504-020018-301
20	21.0-22.5	3504-009020-301	3504-013020-301	

22	23.0-24.5	3504-009022-301	3504-013022-301	3504-020022-301
25	26.0-27.5	3504-009025-301	3504-013025-301	
28	29.0-30.5	3504-009028-301	3504-013028-301	3504-020028-301
32	33.0-35.0		3504-013032-301	
35	36.0-38.0	3504-009035-301	3504-013035-301	3504-020035-301
38	36.0-38.0		3504-013038-301	
42	44.0-46.0	3504-009042-301	3504-013042-301	3504-020042-301
48	50.0-52.0	3504-009048-301	3504-013048-301	3504-020048-301
54	56.0-58.0	3504-009054-301	3504-013054-301	3504-020054-301
60	62.0-64.0	3504-009060-301	3504-013060-301	3504-020060-301
64	65.0-67.5	3504-009063-301	3504-013063-301	3504-020063-301
70				3504-020070-301
76	77.0-79.5	3504-009076-301	3504-013076-301	
89	91.5-94.5		3504-013089-301	3504-020089-301
108	111.5-114.0		3504-013108-301	
114	117.0-120.0		3504-013114-301	
Insulation Wall thickness [mm]				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		25 (24.0-26.0)		30 (29.0-31.0)
28	29.0-30.5			3504-030028-301
35	36.0-38.0			3504-030035-301
54	56.0-58.0	3504-025054-301		
60	62.0-64.0	3504-025060-301		
76	77.0-79.5	3504-025076-301		
89	91.5-94.5	3504-025089-301		
108	111.5-114.0	3504-025108-301		
114	117.0-120.0	3504-025114-301		3004-030114-301

ThermaSmart® PRO Tube SA

Thermal Insulation by Thermaflex®

Fully recyclable self-adhesive thermal tube insulation product made of direct extruded, closed-cell high quality polyolefin foam

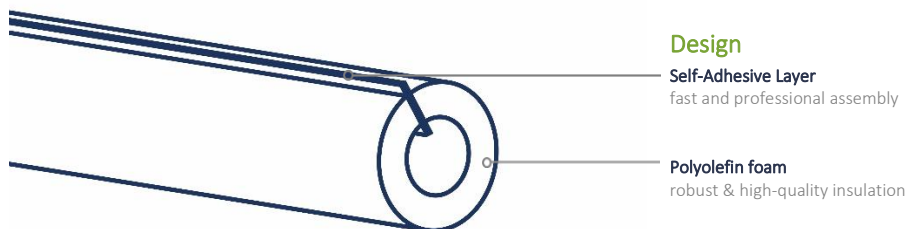


Benefits

- Fast and easy installation with self-adhesive layer
- Consistent performance - Damage free, robust insulation material
- Safety - Excellent fire and smoke behavior
- Excellent insulating properties
- Gain point for Green building program with certified ThermaSmart PRO foam insulation - Cradle to Cradle Certified™ Bronze, EPD, RoHS

Applications

- Suitable only for sanitary and heating applications



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	18 - 40	-
Structure	-	Fine, closed-cells	-
Color	-	Anthracite	-
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.035 @ 10°C 0.038 @ 40°C	EN ISO 8497
Fire properties			
SBI classification	-	B ₁ -s ₁ ,d ₀	EN 13501-1
British standard	-	Class 1	BS 476 Part 7
British standard	-	Class 0	BS 476 Part 6
Flammability standard	-	HF-1	UL94
Water resistance properties			
Water absorption	kg/m ²	0.02	EN 13472
Self-Adhesive layer*			
A colorless pressure-sensitive modified acrylic adhesives layer covered with a paper release liner.			
Shelf-life	month	12	(15 – 30°C and RH 40-75%)

*product warranty of the self-adhesive layer is limited to 1 year, the ThermaSmart@PRO foam insulation warranty is according our general terms and conditions.

Availability

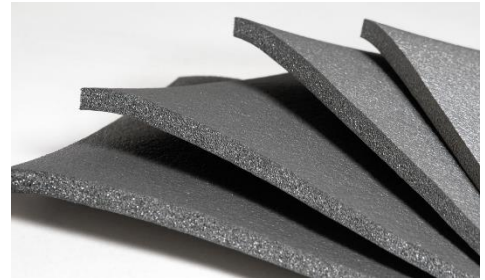
- Standard product length is 2m (198-204cm) in carton boxes (205x60x40cm)

Tube insulation				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		9 (8.0-10.0)	13 (12.0-14.0)	20 (18.0-20.0)
6	7.0-8.5	3004-009006-010		
8	9.0-10.5	3004-009008-010		
12	13.0-15.0	3004-009012-010	3004-013012-010	
15	16.0-17.5	3004-009015-010	3004-013015-010	3004-020015-010
18	19.0-20.5	3004-009018-010	3004-013018-010	3004-020018-010
22	23.0-24.5	3004-009022-010	3004-013022-010	3004-020022-010
28	29.0-30.5	3004-009028-010	3004-013028-010	3004-020028-010
35	36.0-38.0	3004-009035-010	3004-013035-010	3004-020035-010
42	44.0-46.0	3004-009042-010	3004-013042-010	3004-020042-010
48	50.0-52.0	3004-009048-010	3004-013048-010	3004-020048-010
54	56.0-58.0	3004-009054-010	3004-013054-010	3004-020054-010
57	59.0-61.0	3004-013057-010		
60	62.0-64.0	3004-013060-010		3004-020060-010

ThermaSmart® PRO Sheet

Thermal Insulation by Thermaflex®

Fully recyclable thermal sheet insulation product made of direct extruded, closed-cell high quality polyolefin foam

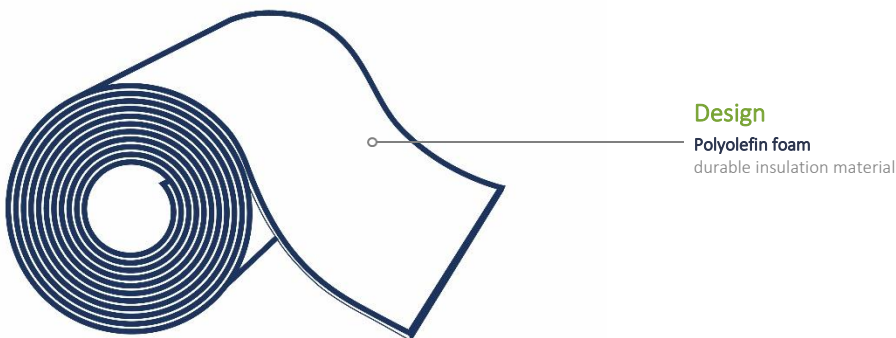


Benefits

- Condensation free system for life-time installed by qualified insulator
- Consistent performance - damage free, robust insulation material
- Safety - Excellent fire and smoke behavior
- Gain point for Green building program - Cradle to Cradle Certified™ Bronze, EPD, RoHS

Applications

- All HVAC-R systems: Heating, Cooling, Air conditioning and Refrigeration



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	18 - 40	-
Structure	-	Fine, closed-cells	-
Color	-	Anthracite	-
Thermal properties			
Service temperature range	°C	-80 to +95	-
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.035 @ 10°C 0.038 @ 40°C	EN 12667
Fire properties			
SBI classification	-	B, s2, d0	EN 13501-1
British standard	-	Class 1	BS 476 Part 7
British standard	-	Class 0	BS 476 Part 6
Flammability standard	-	HF-1	UL94
Water resistance properties			
Water vapor diffusion	μ	≥ 5,300	EN 12086
Water absorption	kg/m ²	0.05	EN 1609

Availability

- Standard Rolls, width 1000mm (990-1010mm)
- Short Rolls, width 1000mm (990-1010mm)

Item Code	Wall thickness [mm]	Content [m ²]	Measures
Rolls, Width = 1000mm*			
3200-007100-004	7.5 (6.0-9.0)	100	1m x 100m roll**
3200-010100-004	10 (8.5-11.5)	104	1m x 104m roll**
3200-013100-004	13 (11.0-15.0)	78	1m x 78m roll**
3200-019100-004	19 (17.0-21.0)	52	1m x 52m roll**
3200-025100-004	25 (23.0-27.0)	39	1m x 39m roll**
Short Rolls, Width = 1000mm*			
3200-010100-204	10 (8.5-11.5)	10	1m x 10m roll**
3200-013100-204	13 (11.0-15.0)	8	1m x 8m roll**
3200-019100-204	19 (17.0-21.0)	6	1m x 6m roll**
3200-025100-204	25 (23.0-27.0)	4	1m x 4m roll**

* laminated sheet 2x500mm

** roll may consist of 2 pieces with the total roll length as declared in the table with 1 extra meter as compensation.

ThermaSmart® PRO Sheet SA

Thermal Insulation by Thermaflex®

Self-Adhesive thermal sheet insulation product made of direct extruded, closed-cell high quality polyolefine foam

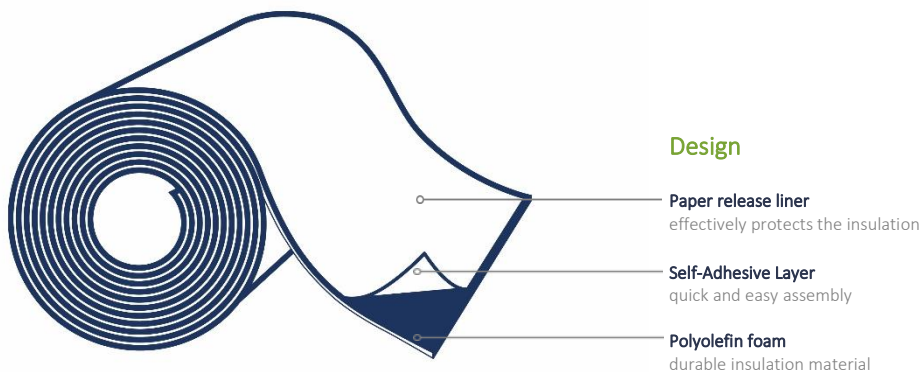


Benefits

- Condensation free system installed by qualified insulator
- Consistent performance - damage free, robust insulation material
- Fast installation due to self-adhesive layer
- Safety - Excellent fire and smoke behavior
- Gain point for Green building program with certified ThermaSmart PRO foam insulation - Cradle to Cradle Certified™ Bronze, EPD, RoHS

Applications

- Heating and Air conditioning applications



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	18 - 40	-
Structure	-	Fine, closed-cells	-
Color	-	Anthracite	-
Thermal properties			
Maximum service temperature	°C	+95*	EN 14707
Thermal conductivity (λ)	W/m·K	0.035 @ 10°C 0.038 @ 40°C	EN 12667
Fire properties			
SBI classification	-	B, s2, d0	EN 13501-1
British standard	-	Class 1	BS 476 Part 7
British standard	-	Class 0	BS 476 Part 6
Flammability standard	-	-	UL94
Water resistance properties			
Water vapor diffusion	μ	≥ 5,300	EN 13469
Water absorption	kg/m ²	0.05	EN 1609
Self-Adhesive layer**			
A colorless pressure-sensitive modified acrylic adhesives layer covered with a paper release liner.			
Shelf-life	month	12	(15 – 30°C and RH 40-75%)

*The adhesion with Self-Adhesive layer was testing according our installation manual on a flat metal surface in an oven at 95°C for 7 days.

**product warranty of the self-adhesive layer is limited to 1 year, the ThermaSmart®PRO foam insulation warranty is according our general terms and conditions.

Availability

- Standard Rolls, width 1000mm (990-1010mm)
- Short Rolls, width 1000mm (990-1010mm)

Item Code	Wall thickness [mm]	Content [m ²]	Measures
Rolls, Width = 1000mm**			
3200-007100-104	7.5	100	1m x 100m roll***
3200-010100-104	10	104	1m x 104m roll***
3200-013100-104	13	78	1m x 78m roll***
3200-019100-104*	19	52	1m x 52m roll***
3200-025100-104*	25	39	1m x 39m roll***
Short Rolls, Width = 1000mm**			
3200-010100-304	10	10	1m x 10m roll***
3200-013100-304	13	8	1m x 8m roll***
3200-019100-304*	19	6	1m x 6m roll***
3200-025100-304*	25	4	1m x 4m roll***

* on request

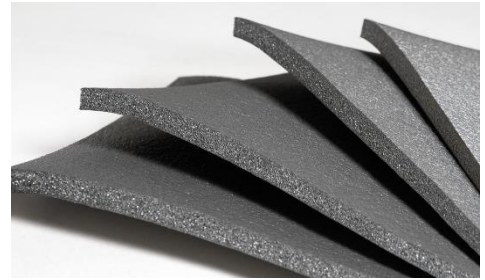
** laminated sheet 2x500mm

*** roll may consist of 2 pieces with the total roll length as declared in the table with 1 extra meter as compensation.

ThermaSmart® PRO LS Sheet

Thermal Insulation by Thermaflex®

Fully recyclable thermal sheet insulation product made of direct extruded, closed-cell high quality polyolefin foam.

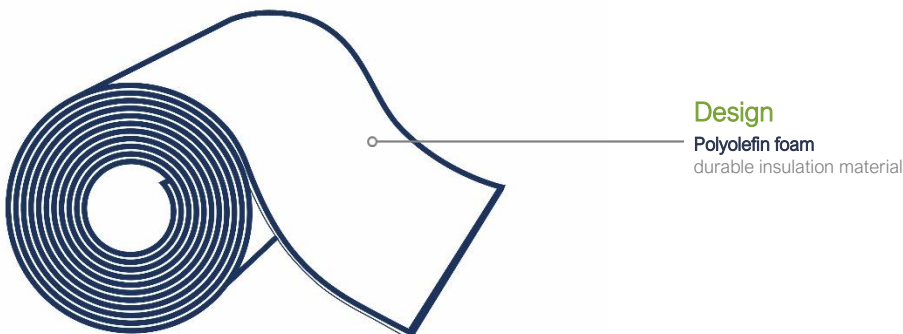


Benefits

- Safety - Excellent fire and smoke behavior: LS = Low smoke
- Condensation free system for life-time installed by qualified insulator
- Consistent performance - damage free, robust insulation material
- Protection against freezing and noise reduction

Applications

- All HVAC-R systems: Heating, Cooling, Air conditioning and Refrigeration



CE

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	18 - 40	-
Structure	-	Fine, closed-cells	-
Color	-	Anthracite	-
Odour	-	Neutral	ASTM C 1304
Thermal properties			
Service temperature range	°C	-80 to +95	-
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m-K	0.035 @ 10°C 0.038 @ 40°C	EN 12667
Fire properties			
SBI classification	-	C, s1, d0	EN 13501-1
Water resistance properties			
Water absorption	kg/m ²	0.05	EN 1609

Availability

- Standard Rolls, width 1000mm (990-1010mm)
- Short Rolls, width 1000mm (990-1010mm)

Item Code	Wall thickness [mm]	Content [m ²]	Measures
Rolls, Width = 1000mm*			
3202-010100-004	10 (8.5-11.5)	104	1m x 104m roll**
3202-013100-004	13 (11.0-15.0)	78	1m x 78m roll**
3202-019100-004	19 (17.0-21.0)	52	1m x 52m roll**
3202-025100-004	25 (23.0-27.0)	39	1m x 39m roll**
Short Rolls, Width = 1000mm*			
3202-010100-204	10 (8.5-11.5)	10	1m x 10m roll**
3202-013100-204	13 (11.0-15.0)	8	1m x 8m roll**
3202-019100-204	19 (17.0-21.0)	6	1m x 6m roll**
3202-025100-204	25 (23.0-27.0)	4	1m x 4m roll**

* laminated sheet 2x500mm

** roll may consist of 2 pieces with the total roll length as declared in the table with 1 extra meter as compensation.

ThermaSmart® ENEV Tube

Thermal Insulation by ThermafLEX®

Fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality polyethylene foam designed for the German market

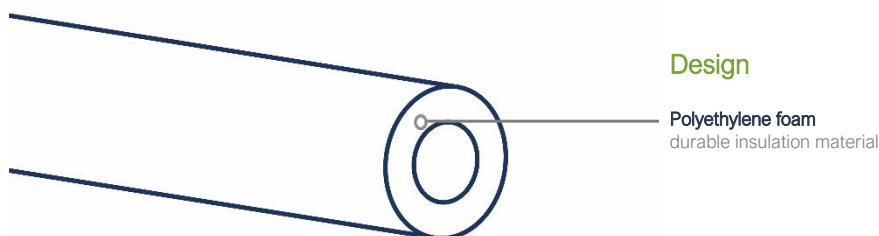


Benefits

- German GEG compliant product range
- Consistent performance - Damage free, robust insulation material
- Safety - Excellent fire and smoke behavior
- Fast fabrication of fitting insulation - Welding technique up to ID42mm

Applications

- Heating and sanitary applications



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	21 - 33	-
Structure	-	Fine, closed-cells	-
Color	-	Anthracite	-
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.034 @ 10°C 0.036 @ 30°C	EN ISO 8497
Fire properties			
SBI classification	-	C _L , s1, d0	EN 13501-1
Water resistance properties			
Water absorption	kg/m ²	0.01	EN 13472

Availability

- Standard product length is 1,5m (148,5-153cm) in carton boxes (157x40x30cm)
- Product versions: non-slit

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		GEG 50%		GEG 100%	
		Fb*	Item Code	Item Code	Item Code	Item Code	
15	16.0-17.5			10 (9.5-11.5)*	3008-010015-500	20 (19.5-21.5)	3008-020015-500
18	19.0-20.5			10 (9.5-11.5)*	3008-010018-500	20 (19.5-21.5)	3008-020018-500
20	21.0-22.5			10 (9.5-11.5)	3008-010020-500	20 (19.5-21.5)	3008-020020-500
22	23.0-24.5			10 (9.5-11.5)*	3008-010022-500	20 (19.5-21.5)	3008-020022-500
25	26.0-27.5			10 (9.5-11.5)	3008-010025-500	20 (19.5-21.5)	3008-020025-500
28	29.0-30.5			10 (9.5-11.5)*	3008-010028-500	20 (19.5-21.5)	3008-020028-500
				15 (14.0-16.0)	3008-015028-500	30 (29.5-31.5)	3008-030028-500
35	36.0-38.0	6 (6.0-7.0)	3008-006035-500	15 (14.0-16.0)	3008-015035-500	30 (29.5-31.5)	3008-030035-500
42	44.0-46.0	6 (6.0-7.0)	3008-006042-500	20 (19.5-21.5)	3008-020042-500	35 (34.5-36.5)	3008-035042-500
48	50.0-52.0			20 (19.5-21.5)	3008-020048-500		
54	56.0-58.0			25 (24.5-26.5)	3008-025054-500		
60	62.0-64.0			30 (29.5-31.5)	3008-030060-500		

* Fb = in the floor structure

- In coils up to ø 28mm and wall thickness 10mm



Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		GEG 50%		GEG 100%	
		Fb	Item Code	Item Code	Item Code	Item Code	
15	16.0-17.5			10 (9.5-11.5)	3108-010015-000		
18	19.0-20.5			10 (9.5-11.5)	3108-010018-000		
22	23.0-24.5			10 (9.5-11.5)	3108-010022-000		
28	29.0-30.5			10 (9.5-11.5)	3108-010028-000		

ThermaSmart® ENEV-Q

Thermal Insulation by Thermaflex®

Fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality thermoplastic foam with coextruded yellow polyolefin outer skin

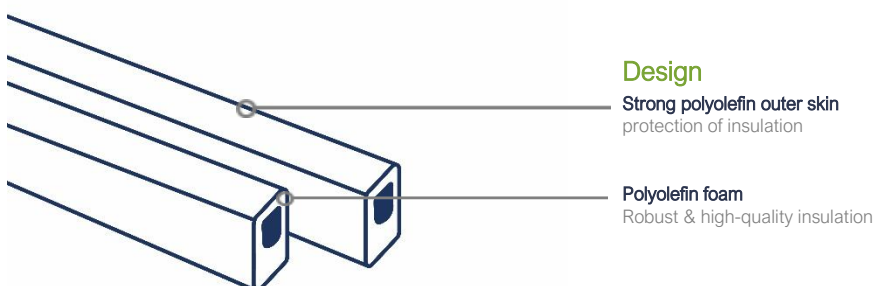


Benefits

- German GEG compliant product range
- Condensation free system for life-time installed by qualified insulator
- Consistent performance – Damage free, robust insulation material

Applications

- Heat distribution lines in under-floor application



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density (foam)	kg/m ³	25-35	-
Foam structure	-	Fine, closed-cells	-
Color	-	Foam: Anthracite Skin: Yellow	-
Pressure resistance	N/mm ²	Force 10%: 0.035-0.045 Force 20%: 0.060-0.090 Force 50%: 0.130-0.170	ISO 844 / DIN 53577
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.040 @ 40°C	EN ISO 8497
Fire properties			
SBI classification	-	Class E _L	EN 13501-1
Water resistance properties			
Water absorption	kg/m ²	0.01	EN 13472

Availability

- Standard product length is 1.5m (149-153cm) in carton boxes (157x40x30cm)
- Product version: non-slit



Carrier Pipe	Insulation Wall thickness [mm]		Product dimensions							
	Ø max. [mm]	Fb*	Item Code	GEG 100%	Item Code	Total height	Total width	A (lower wall)	B (hole)	C (upper wall)
15		6	3009-006015-518			27.0-31.0	26.0-30.0	6.0-8.0	16.0-18.0	5.0-7.0
				20	3009-020015-518	45.0-49.0	28.0-32.0	24.6-26.6	16.0-18.0	6.0-8.0
18		6	3009-006018-518			30.0-34.0	29.0-33.0	6.0-8.0	19.0-21.0	5.0-7.0
				20	3009-020018-518	47.5-51.5	31.0-35.0	24.1-26.1	19.0-21.0	6.0-8.0
22		6	3009-006022-518			34.0-38.0	33.0-37.0	6.0-8.0	23.0-25.0	5.0-7.0
				20	3009-020022-518	51.5-55.5	35.0-39.0	23.3-25.3	23.0-25.0	6.0-8.0
28		6	3009-006028-518			41.0-45.0	40.0-44.0	6.0-8.0	29.0-31.0	5.0-7.0
				20 ¹	3009-020028-518	57.0-61.0	41.0-45.0	23.3-25.3	29.0-31.0	6.0-8.0
35		6	3009-006035-518			48.0-52.0	47.0-51.0	6.0-8.0	36.0-38.0	5.0-7.0
				30	3009-030035-518	78.0-82.0	52.0-56.0	36.0-38.0	36.0-38.0	8.0-10.0
42						95.0-99.0	59.0-63.0	47.4-49.4	43.0-45.0	8.0-10.0

¹ 100% insulation according to GEG only for Fe pipes
* according to GEG (Fb = in the floor structure)

ThermaEco FRZ HF Tube

Thermal Insulation by Thermaflex®

Fully recyclable thermal halogen free tube insulation product made of direct extruded, closed-cell high quality polyethylene foam

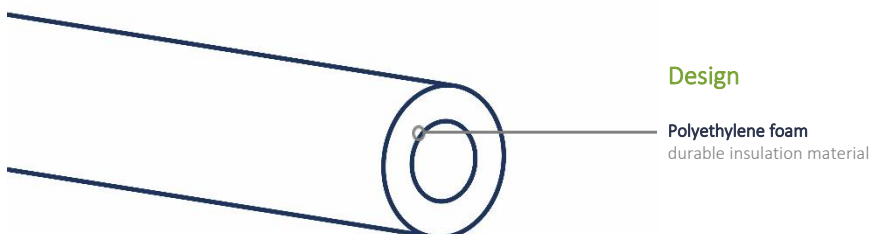


Benefits

- Halogen free product
- Wide product range and prefabrications
- Consistent performance - Damage free, robust insulation material

Applications

- Domestic heating and plumbing – energy conservation



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	25 - 36	-
Structure	-	Fine, closed-cells	-
Color	-	grey	-
Thermal properties			
Service temperature range	°C	-80 to +95	-
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.038 @ 20°C 0.040 @ 40°C	EN ISO 8497
Fire properties			
SBI classification	-	E _L	EN 13501-1
Water resistance properties			
Water absorption	-	WS 005	EN 13472

Availability

- Standard product length is 2m (198-204cm) in carton boxes (205x60x40cm)
- Product versions: pre-slit

Tube Insulation				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		6 (5.0-6.5)	9 (8.0-10.0)	13 (12.0-14.0)
12	13.0-15.0	3026-006012-020	3026-009012-020	3026-013012-020
15	16.0-17.5	3026-006015-020	3026-009015-020	3026-013015-020
18	19.0-20.5	3026-006018-020	3026-009018-020	3026-013018-020
22	23.0-24.5	3026-006022-020	3026-009022-020	3026-013022-020
28	29.0-30.5	3026-006028-020	3026-009028-020	3026-013028-020
35	36.0-38.0	3026-006035-020	3026-009035-020	3026-013035-020
42	44.0-46.0		3026-009042-020	3026-013042-020
48	50.0-52.0		3026-009048-020	3026-013048-020
54	56.0-58.0		3026-009054-020	3026-013054-020
57	59.0-61.0		3026-009057-020	3026-013057-020
60	62.0-64.0		3026-009060-020	3026-013060-020
64	65.0-67.5		3026-009063-020	3026-013063-020
70	72.0-74.0			3026-013070-020
76	77.0-79.5		3026-009076-020	3026-013076-020
89	91.5-94.5			3026-013089-020
102	105.0-108.0			3026-013102-020
108	111.5-114.0			3026-013108-020
114	117.0-120.0			3026-013114-020

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		20 (18.0-20.0)	25 (24.0-26.0)	30 (29.0-31.0)
12	13.0-15.0	3026-020012-020	3026-025012-020	
15	16.0-17.5	3026-020015-020	3026-025015-020	3026-030015-020
18	19.0-20.5	3026-020018-020	3026-025018-020	3026-030018-020
22	23.0-24.5	3026-020022-020	3026-025022-020	3026-030022-020
28	29.0-30.5	3026-020028-020	3026-025028-020	3026-030028-020
35	36.0-38.0	3026-020035-020	3026-025035-020	3026-030035-020
42	44.0-46.0	3026-020042-020	3026-025042-020	3026-030042-020
48	50.0-52.0	3026-020048-020	3026-025048-020	3026-030048-020
54	56.0-58.0	3026-020054-020	3026-025054-020	3026-030054-020
57	59.0-61.0	3026-020057-020	3026-025057-020	3026-030057-020
60	62.0-64.0	3026-020060-020	3026-025060-020	3026-030060-020
64	65.0-67.5	3026-020063-020	3026-025063-020	3026-030063-020
70	72.0-74.0	3026-020070-020	3026-025070-020	
76	77.0-79.5	3026-020076-020	3026-025076-020	3026-030076-020
89	91.5-94.5	3026-020089-020	3026-025089-020	3026-030089-020
102	105.0-108.0	3026-020102-020	3026-025102-020	
108	111.5-114.0	3026-020108-020	3026-025108-020	
114	117.0-120.0	3026-020114-020	3026-025114-020	3026-030114-020

- Pre-fabricated parts



Elbows				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		9 (8.0-10.0)	13 (12.0-14.0)	20 (18.0-20.0)
15	16.0-17.5	3520-009015-032	3526-013015-042	3526-020015-042
18	19.0-20.5	3520-009018-032	3526-013018-042	3526-020018-042
22	23.0-24.5	3520-009022-032	3526-013022-042	3526-020022-042
28	29.0-30.5	3520-009028-032	3526-013028-042	3526-020028-042
35	36.0-38.0	3520-009035-032	3526-013035-042	3526-020035-042
42	44.0-46.0	3520-009042-032	3526-013042-042	3526-020042-042
48	50.0-52.0	3520-009048-032	3526-013048-042	3526-020048-042
50				3526-020050-042
54	56.0-58.0	3520-009054-032		
60	62.0-64.0		3526-013060-042	3526-020060-042
64	65.0-67.5	3520-009063-032		
76	77.0-79.5	3520-009076-032		
89	91.5-94.5			3526-020089-042
108	111.5-114.0			3526-020108-042
114	117.0-120.0			3526-020114-042

T-pieces

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]	
		13 (12.0-14.0)	20 (18.0-20.0)
18	19.0-20.5	3526-013028-302	3526-020018-302
22	23.0-24.5	3526-013022-302	3526-020022-302
28	29.0-30.5	3526-013028-302	3526-020028-302
35	36.0-38.0	3526-013035-302	3526-020035-302
42	44.0-46.0	3526-013042-302	3526-020042-302
48	50.0-52.0	3526-013048-302	3526-020048-302
54	56.0-58.0		3526-020054-302
60	62.0-64.0	3526-013060-302	3526-020060-302
76	77.0-79.5	3526-013076-302	

ThermaEco FRZ Sheet

Thermal Insulation

Thermal sheet insulation product made of closed-cell polyethylene foam. Standard and Self-adhesive version available.

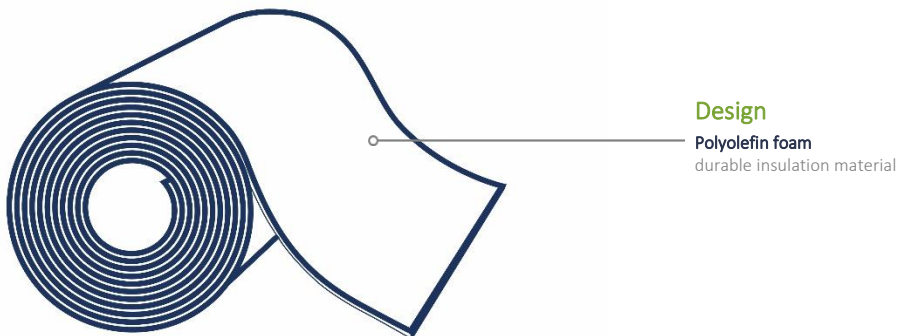


Benefits

- Universal application
- Damage free, robust insulation material

Applications

- For the protection of flat surfaces, pipes with large diameters, round and square air ducts
- For tanks, valves, elbows, etc., in sanitary and heating systems



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Density	kg/m ³	30±5	ISO 845
Structure	-	Fine, closed-cells	-
Color	-	grey	-
Thermal properties			
Service temperature range	°C	-45 to +85	-
Maximum service temperature	°C	+85	-
Thermal conductivity (λ)	W/m·K	0.0364 @ 10°C 0.0403 @ 40°C	EN 12667
Fire properties			
SBI classification	-	F	EN 13501-1
Water resistance properties			
Water absorption: 7 days	Vol. %	<2,5	MSZ EN 12087:1999
Self-Adhesive layer			
A colorless pressure-sensitive modified acrylic adhesives layer covered with a paper release liner.			
Shelf-life	month	12	(15 – 30°C and RH 40-75%)

The adhesion with Self-Adhesive layer was testing according our installation manual on a flat metal surface in an oven at max. service temperature for 7 days

Availability

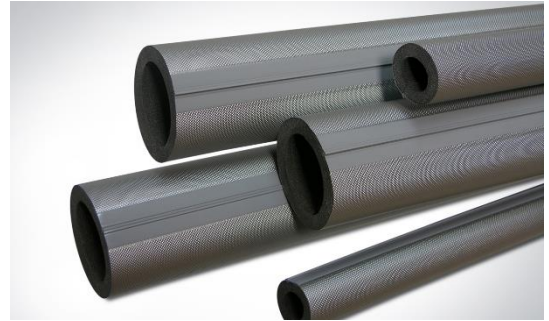
- Standard Rolls, width 1000mm
- Self-adhesive version available

Item Code	Wall thickness [mm]	Content [m ²]	Measures
Standard Rolls, Width = 1000mm			
3299-005100-000	5 (4.4-5.6)	200	1m x 200m roll
3299-010100-000	10 (9.0-11.0)	70	1m x 70m roll
3299-013100-000	13 (11.7-14.3)	60	1m x 60m roll
3299-020100-000	20 (18,0-22.0)	35	1m x 35m roll
3299-025100-000	25 (22.5-27.5)	30	1m x 30m roll
3299-030100-000	30 (27.0-33.0)	25	1m x 25m roll
Rolls with self-adhesive layer, Width = 1000mm			
3299-005100-100	5 (4.4-5.6)	200	1m x 200m roll SA
3299-010100-100	10 (9.0-11.0)	70	1m x 70m roll SA
3299-013100-100	13 (11.7-14.3)	60	1m x 60m roll SA
3299-020100-100	20 (18,0-22.0)	35	1m x 35m roll SA
3299-025100-100	25 (22.5-27.5)	30	1m x 30m roll SA
3299-030100-100	30 (27.0-33.0)	25	1m x 25m roll SA

Ultra M Tube

Thermal Insulation by Thermaflex®

Thermal tube insulation product made of cross-linked polyethylene foam with polymer coating and quick zipper

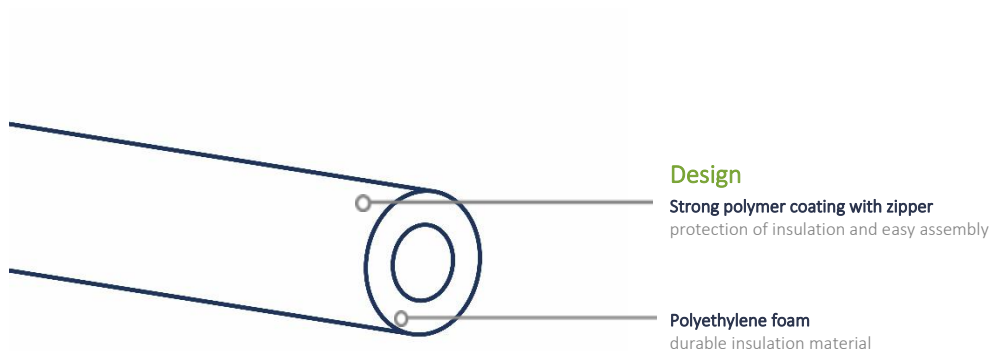


Benefits

- Quick and easy installation
- Unique aesthetic appearance
- Easy cleaning due to embossed skin

Applications

- Heating, hot and cold-water transport



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Density	kg/m ³	25 - 35	ISO 845
Structure	-	Fine, closed-cells	-
Color	-	Grey	-
Thermal properties			
Maximum service temperature	°C	+85	-
Thermal conductivity (λ)	W/m·K	0.040 @ 40°C	EN ISO 8497
Fire properties			
SBI classification	-	E ₁	EN 13501-1
Water resistance properties			
Water absorption	-	WS 01	EN 13472

Availability

- Standard product length is 2m (198-204cm) in carton boxes (205x60x40cm)

Tube Insulation				
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]		
		7,5 (6.6-8.4)	10 (9.0-11.0)	13 (11.7-14.3)
12	13.0-15.0	3010-007012-130	-	-
15	16.0-18.0	3010-007015-030	-	-
18	19.0-21.0	3010-007018-030	-	-
22	23.0-25.0	-	3010-009022-030	-
28	29.0-31.0	-	3010-009028-030	-
35	36.0-38.0	-	3010-009035-030	-
42	43.0-45.0	-	3010-009042-030	-
45	46.0-48.0	-	3010-009045-030	-
48	49.0-51.0	-	3010-009048-030	-
51	52.0-54.0	-	3010-009051-030	-
54	55.0-57.0	-	3010-009054-030	-
57	58.0-60.0	-	-	3010-013057-030
60	61.5-63.5	-	-	3010-013060-030
64	65.5-67.5	-	-	3010-013064-030
70	71.5-73.5	-	-	3010-013070-030
76	77.5-79.5	-	-	3010-013076-030
89	90.5-92.5	-	-	3010-013089-030
102	103.5-105.5	-	-	3010-013102-030
108	109.5-111.5	-	-	3010-013108-030
114	115.5-117.5	-	-	3010-013114-030
133	134.5-136.5	-	-	3010-013133-030

ThermaCompact IS

Thermal Insulation by Thermaflex®

Fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality polyethylene foam with strong protective polymer coating

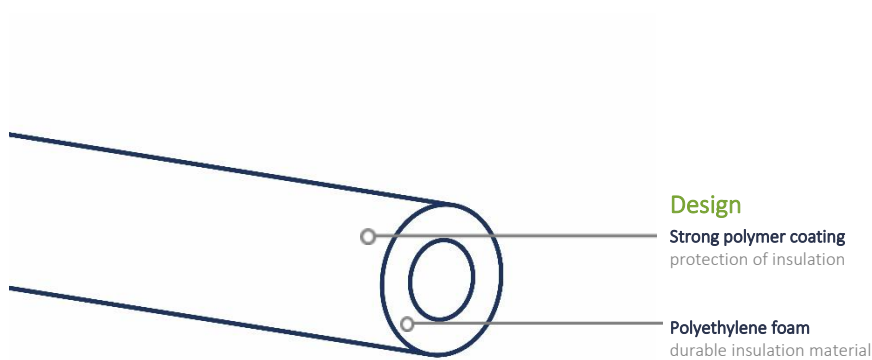


Benefits

- Consistent performance – strong protective polymer coating and robust insulation material
- Easy cleaning due to smooth skin

Applications

- Domestic heating and plumbing – energy conservation in walls and floor spaces



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	18-40	-
Structure	-	Fine, closed-cells	-
Color	-	Foam: grey Skin: red/blue	-
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.038 @ 20°C 0.039 @ 30°C 0.040 @ 40°C 0.041 @ 50°C	EN 13787
Fire properties			
SBI classification	-	E _L	EN 13501-1
Water resistance properties			
Water absorption	kg/m ²	0.05	EN 13472

Availability

- Product length 1,5m (148-152cm) in carton boxes (157x40x30cm)
- Product versions: non-slit, with red polymer coating

Tube Insulation					
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]			
		9 (8,5-10)	13 (12-13,5)	20 (19-20,5)	25 (26-28) d*15, (25-27) d*18-22, (24-26) >d*22
15	16,0-17,5	3030-009015-500	3030-013015-500	-	3030-025015-500
18	19,0-20,5	3030-009018-500	3030-013018-500	3030-020018-500	3030-025018-500
22	23,0-24,5	3030-009022-500	3030-013022-500	3030-020022-500	3030-025022-500
28	29,0-31,0	3030-009028-500	3030-013028-500	3030-020028-500	3030-025028-500
35	36,0-38,0	3030-009035-500	3030-013035-500	3030-020035-500	3030-025035-500
42	44,0-46,0	3030-009042-500	3030-013042-500	3030-020042-500	3030-025042-500

* d - tube diameters

- Product length 2m (198-204cm) in carton boxes (205x60x40cm)
- Product versions: non-slit, with red or blue polymer coating

Tube Insulation					
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]			
		6 (5.5-7.0)	9 (8.5-10)	13 (12-13.5)	20 (19-20.5)
15	16.0-17.5	3030-006015-400 (401 blue)	3030-009015-400 (401 blue)	3030-013015-400	3030-025015-400
18	19.0-20.5	3030-006018-400 (401 blue)	3030-009018-400 (401 blue)	3030-013018-400	3030-020018-400 3030-025018-400
22	23.0-24.5	3030-006022-400 (401 blue)	3030-009022-400 (401 blue)	3030-013022-400	3030-020022-400 3030-025022-400
28	29.0-31.0	3030-006028-400 (401 blue)	3030-009028-400 (401 blue)	3030-013028-400	3030-020028-400 3030-025028-400
35	36.0-38.0	3030-006035-400 (401 blue)	3030-009035-400 (401 blue)	3030-013035-400	3030-020035-400 3030-025035-400
42	44.0-46.0		3030-009042-400 (401 blue)	3030-013042-400	3030-020042-400 3030-025042-400

* d - tube diameters

ThermaCompact IS10

Thermal Insulation by Thermaflex®

Fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality polyethylene foam with strong protective polymer coating



Benefits

- Consistent performance – strong protective polymer coating and robust insulation material
- Easy cleaning due to smooth skin

Applications

- Domestic heating and plumbing – energy conservation in walls and floor spaces



Design

Polyethylene foam
durable insulation material

Strong polymer coating
protection of insulation

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	18-40	-
Structure	-	Fine, closed-cells	-
Color	-	Foam: grey Skin: red/blue	-
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.038 @ 20°C 0.039 @ 30°C 0.040 @ 40°C 0.041 @ 50°C	EN 13787
Fire properties			
SBI classification	-	E _L	EN 13501-1
Water resistance properties			
Water absorption	kg/m ²	0.05	EN 13472

Availability

- ThermaCompact IS10 has a product length of 10m (998-1004cm) delivered in coils
- Product versions: non-slit, with red or blue polymer coating

Tube Insulation			
Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]	
		6 (5.5-7.0) red	6 (5.5-7.0) blue
15	16.0-17.5	3130-006015-200	3130-006015-201
18	19.0-20.5	3130-006018-200	3130-006018-201
22	23.0-24.5	3130-006022-200	3130-006022-201
28	29.0-31.0	3130-006028-200	3130-006028-201
35	36.0-38.0	3130-006035-200	3130-006035-201

Preinsulation Service

Pre-insulation of PEX pipes with Thermaflex® insulation

Ready to use, flexible PEX water installation for versatile application, insulated with high quality PE foam, with closed cell structure

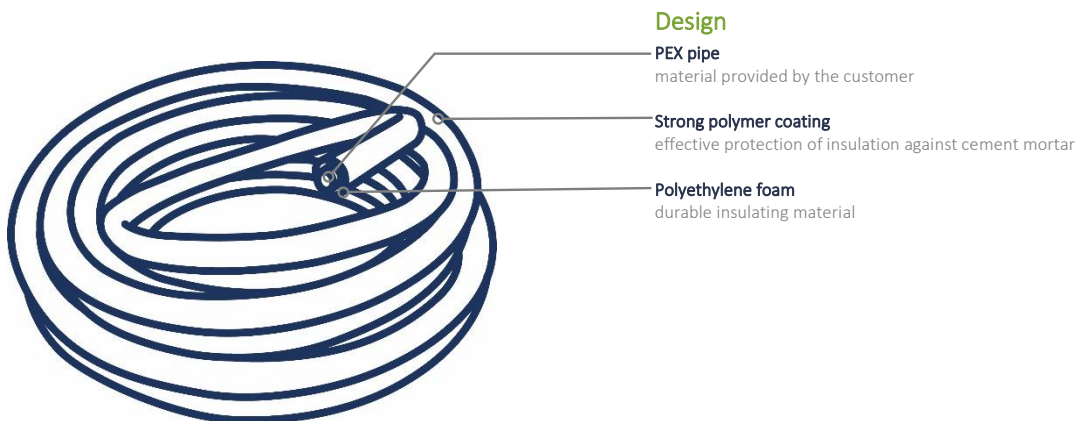


Benefits

- Easy and quick assembly guaranteed due to low weight and high flexibility of the system
- Save time and labor during assembly
- Failure-free operation of the installation, effective protection against energy losses
- High temperature resistance
- Constant insulation performance - strong polyethylene coating to protect proper insulation and durable insulation material

Applications

- Central heating installations, hot and cold water



Technical Properties of insulation

Properties	Units SI	Values	Testing method
Physical properties of insulation			
Insulation tolerances	-	Coherent	EN 14313
Density of foam	kg/m ³	18-40	-
Structure of the foam	-	Fine, closed cells	-
Color of the insulation	-	Foam: grey Skin: red/blue/grey	-
Thermal properties of insulation			
Max. insulation operating temperature	°C	+95	EN 14707
Thermal conductivity of the insulation (λ)	W/m·K	0.038 @ 20°C 0.039 @ 30°C 0.040 @ 40°C 0.041 @ 50°C	EN 13787
Fire properties of insulation			
SBI classification (insulation)	-	E _L	EN 13501-1
Water resistance properties			
Water absorption (foam)	kg/m ²	0.05	EN 13472

Availability

- Standard length of the finished product from 25 - 100 m (depending on the size)
- Type of insulation: ThermaCompact IS, wall thickness 6, 9 mm
- Version: plain or knurled, in blue, red or gray
- Finished product rolled in coil, packed in stretch foil

Working pipe sizes and insulation tolerance			
PEX working tube Ø max. [mm]	Insulation wall thickness [mm]		Length [m]
	6 (5.0-7.0)	9 (8.0-10.0)	
16x2,0	16,0-18,0	16,0-18,0	50, 100
20x2,0	20,0-22,0	20,0-22,0	50, 100
25x2,5	25,0-27,0	25,0-27,0	25, 50
26x3,0	26,0-28,0	26,0-28,0	25, 50
32x3,0	32,0-34,0	32,0-34,0	25, 50

* minimum order to be agreed

ThermaCompact TF

Thermal Insulation by Thermaflex®

Fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality polyethylene foam with strong protective polymer coating

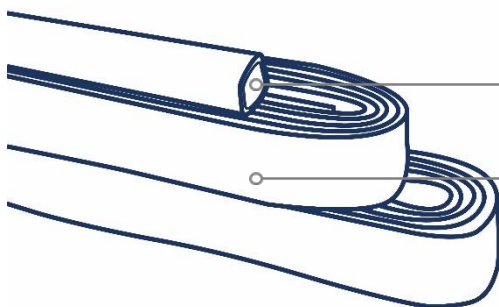


Benefits

- Consistent performance – strong protective polymer coating and robust insulation material
- Noise reduction (structure-borne sound)

Applications

- Domestic plumbing – noise reduction (structure borne sound) in walls and floor spaces as well as condensation prevention for
 - Cold water pipes
 - Drain piping



Design

Polyethylene foam
effectively suppresses sounds generated in the installation

Strong polymer coating
protection of insulation

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Density	kg/m ³	30 - 40	-
Structure	-	closed-cells	-
Color	-	Skin: red Foam: white	-
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Fire properties			
SBI classification	-	Class E _L	EN 13501-1

*the material was tested according the EN ISO 11925-2:2010

Availability

- Standard product length is 10m in different packing units in carton boxes (30x40x103cm)

Tube Insulation				
Outer pipe Ø [mm]	Carrier Pipe Ø DN [mm]	Tube Insulation Ø [mm]	Insulation Wall thickness [mm]	
			4 (3.5-4.5)	9 (8.5-9.5)
15	8	17.5-18.0	3920-004015-000	-
18	10	21.5-22.0	3920-004018-000	-
22	15	23.5-24.0	3920-004022-000	-
28	20	28.5-29.5	3920-004028-000	-
35	25	36.0-36.5	3920-004035-000	-
42	32	44.0-46.0	3920-004042-000	-
-	50	61.0-62.0	3920-004050-000	3920-009050-000
-	60	70.0-72.0	3920-004060-000	-
-	70	88.0-89.0	3920-004070-000	3920-009070-000
-	90	118.0-120.0	3920-004090-000	3920-009090-000
-	100	125.0-130.0	3920-004100-000	3920-009100-000
-	125	149.0-151.0	3920-004125-000	3920-009125-000
-	150	178.0-180.0	3920-004150-000	-

ThermaVlies

Thermal insulation

Flexible protective tube made of high-strength synthetic fibers. Durable, waterproof PE outer sheath

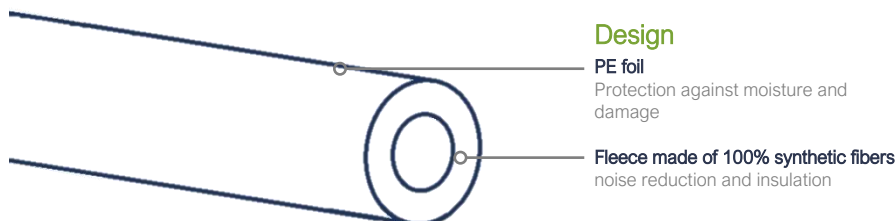


Benefits

- Noise reduction (flowing and cracking noises)
- Protection against impermissible heating and condensation
- Chemically neutral - free of corrosion accelerators and CFCs

Applications

- House installation - noise reduction (flowing and cracking noises) in wall and floor surfaces as well as protection against impermissible heating and condensation for:
 - Cold water pipes according to DIN 1988-200
 - Drain lines



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Structure	-	plastic fibers	-
Color	-	Skin: silver-grey Insulation: grey	-
Thermal properties			
Service temperature range	°C	-70 to +105	-
Thermal conductivity of the insulation (λ)	W/(m·K)	0,0375 @ 10°C*	-
Fire properties			
SBI classification	-	E _L -d2	EN 13501-1

* calculated value

Availability

- Protective and drainage tubes with a standard length of 10m in various packaging units in a carton (103x40x30cm)

Protective tubes			
Product code	Copper pipes Cu Pipe outer \varnothing [mm]	Steel pipes Fe Pipe outer \varnothing [mm]	Insulation thickness [mm]
3921-004015-000	15	13,5	4
3921-004018-000	18	17,2	4
3921-004022-000	22	21,3	4
3921-004028-000	28	26,9	4
3921-004035-000	35	33,7	4
3921-004042-000	42	42,4	4

Drain tubes			
Product code	HT pipes - SML pipes Nominal size DN	Tube inside \varnothing [mm]	Insulation thickness [mm]
3921-004050-000	50	64	4
3921-004070-000	70	89	4
3921-004090-000	90	109	4
3921-004100-000	100	127	4
3921-004125-000	125	146	4

ThermaPur

Thermal insulation

Technical insulation system made of open-pored semi-rigid polyurethane foam in the form of tubes and elbows

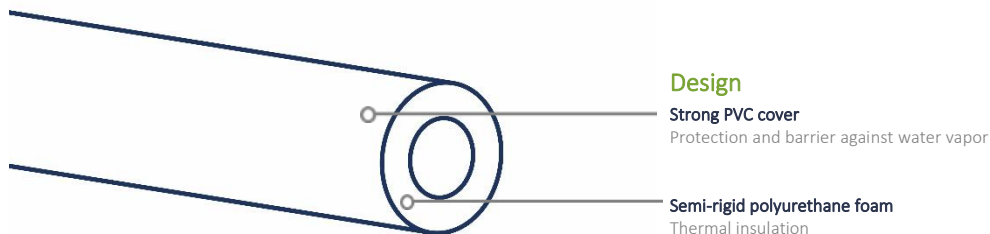


Benefits

- Temperature Resistance to microbes and insects, as well as rot and decay
- Dimensional stability and accuracy of fit thanks to the automatic closure
- Protection against condensation and corrosion
- 100% HCFC and HFC free

Applications

- Heating and plumbing lines in domestic installations



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerance	mm	Deviation from the nominal thickness: ± 2	EN 13467
Density ¹	kg/m ³	ThermaPur 035: 25-41 ¹ ThermaPur 040: 20-41 ¹	EN 13470
Structure	-	internal 0.1 mm paper lamination open-cell PUR foam Outer cover layer made of PVC film	-
Thermal properties			
Max. service temperature	°C	+110	-
Thermal conductivity coefficient (λ)	W/m-K	ThermaPur 035: 0,036 @ 40°C ² ThermaPur 040: 0,040 @ 40°C ²	EN ISO 8497
Fire properties			
SBI classification	-	E _L	EN 13501-1
Building material class	-	B2 ³	DIN 4102-1

¹ without adhesive seal or cover layers, only for insulating bodies

² calculated value

³ for nominal thicknesses of 20-50 mm when used on metal pipes and on at least normally flammable plastic pipes or multi-layer composite pipes;
for nominal thicknesses > 50 mm only when used on metallic pipes

Availability

- Standard length 1m in carton (100x39x59 cm)

ThermaPur 035		
Product code	Pipe outer Ø max. [mm]	Insulation thickness [mm]
3093-020015-942	15	20
3093-020018-942	18	20
3093-020023-942	22	20
3093-020028-942	28	20
3093-030028-942	28	30
3093-030036-942	35	30
3093-040044-942	42	39
3093-040050-942	48	41
3093-050062-942	60	53

ThermaPur 040		
Product code	Pipe outer Ø max. [mm]	Insulation thickness [mm]
3093-020015-962	15	20
3093-020018-962	18	20
3093-020023-962	22	20
3093-020028-962	28	20
3093-020036-962	35	20
3093-025044-962	42	26
3093-025050-962	48	26
3093-030062-962	60	32

- Elbows made of melamine resin foam



ThermaPur Elbows					
Product code	Pipe outer Ø max. [mm]	Insulation thickness [mm]	Product code	Pipe outer Ø max. [mm]	Insulation thickness [mm]
3593-020015-243	15	20	3593-025042-243	42	25
3593-020018-243	18	20	3593-040042-243	42	40
3593-020022-243	22	20	3593-025048-243	48	25
3593-020028-243	28	20	3593-040048-243	48	40
3593-030028-243	28	30	3593-030060-243	60	30
3593-020035-243	35	20	3593-050060-243	60	50
3593-030035-243	35	30			

Mineral Wool Insulation

Thermal insulation

Mineral wool tubes for thermal and acoustic insulation of heating pipelines and industrial installations

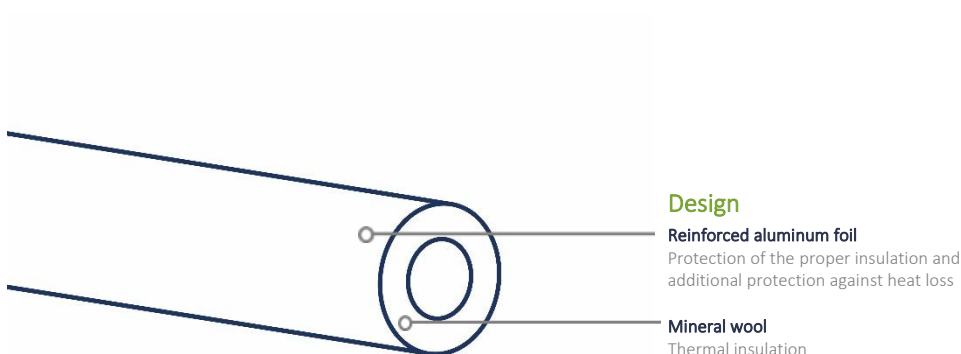


Benefits

- Temperature resistance up to 250 ° C
- Wall thickness from 20 to 100mm
- High performance aesthetics
- Quick and easy assembly

Applications

- Designed for thermal and sound insulation of central heating pipelines, hot and cold water, air conditioning, ventilation and solar cables in residential and public buildings, industrial, religious and historic buildings



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Odour	-	Neutral	-
Color	-	Outer jacket: - Alu	-
Thermal properties			
Max. service temperature	°C	+250	-
Thermal conductivity (λ) inner diameter [mm] ≤ 40 inner diameter [mm] > 40	W/m·K	0,037 @ 40°C 0,038 @ 40°C	EN 14303:2009+A1:2013
Fire properties			
SBI classification	-	A2L -s1, d0	EN 14303:2009+A1:2013

Availability

- Standard tube length 1m, packed in cardboard boxes (101x40x40cm)

Tubes							
Pipe Ø DN	Pipe Ø outer [mm]	Wall thickness [mm]					
		20	25	30	40	50	60
8	15	3092-020015-910	3092-025015-910	3092-030015-910	3092-040015-910		
10	18	3092-020018-910	3092-025018-910	3092-030018-910	3092-040018-910	3092-050018-910	3092-060018-910
15	22	3092-020022-910	3092-025022-910	3092-030022-910	3092-040022-910	3092-050022-910	3092-060022-910
20	28	3092-020028-910	3092-025028-910	3092-030028-910	3092-040028-910	3092-050028-910	3092-060028-910
25	35	3092-020035-910	3092-025035-910	3092-030035-910	3092-040035-910	3092-050035-910	3092-060035-910
32	42	3092-020042-910	3092-025042-910	3092-030042-910	3092-040042-910	3092-050042-910	3092-060042-910
40	48	3092-020048-910	3092-025048-910	3092-030048-910	3092-040048-910	3092-050048-910	3092-060048-910
	54	3092-020054-910		3092-030054-910	3092-040054-910	3092-050054-910	3092-060054-910
50	60	3092-020060-910		3092-030060-910	3092-040060-910	3092-050060-910	3092-060060-910
	64	3092-020064-910	3092-025064-910	3092-030064-910	3092-040064-910	3092-050064-910	3092-060064-910
65	76	3092-020076-910	3092-025076-910	3092-030076-910	3092-040076-910	3092-050076-910	3092-060076-910
80	89	3092-020089-910	3092-025089-910	3092-030089-910	3092-040089-910	3092-050089-910	3092-060089-910
100	108		3092-025108-910	3092-030108-910	3092-040108-910	3092-050108-910	3092-060108-910
100	114			3092-030114-910	3092-040114-910	3092-050114-910	3092-060114-910
125	133			3092-030133-910	3092-040133-910	3092-050133-910	3092-060133-910
150	159				3092-040159-910	3092-050159-910	3092-060159-910
200	219				3092-040219-910	3092-050219-910	3092-060219-910
Pipe Ø DN	Pipe Ø outer [mm]	Wall thickness [mm]					
		70	80	90	100		
25	35	3092-070035-910					
32	42	3092-070042-910					
40	48	3092-070048-910	3092-080048-910				
	54	3092-070054-910	3092-080054-910				
50	60	3092-070060-910	3092-080060-910				
	64	3092-070064-910	3092-080064-910				
65	76	3092-070076-910	3092-080076-910				
80	89	3092-070089-910	3092-080089-910	3092-090089-910		3092-100089-910	
100	108	3092-070108-910	3092-080108-910	3092-090108-910		3092-100108-910	
100	114	3092-070114-910	3092-080114-910			3092-100114-910	
125	133		3092-080133-910			3092-100133-910	
150	159		3092-080159-910			3092-100159-910	
200	219		3092-080219-910			3092-100219-910	

ThermaLint

Heating cable by ThermafLEX®

Electric constant-rated heating cable fitted with appropriate controls to protect the system against freezing

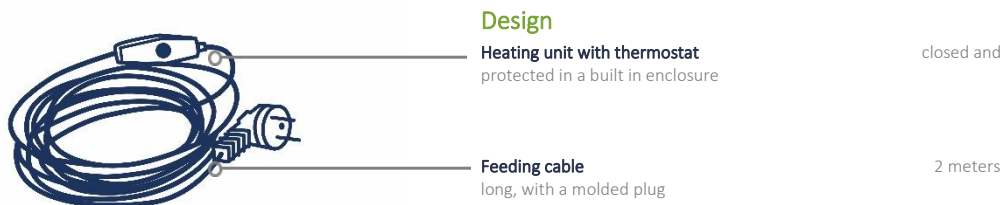


Benefits

- Solid protection of the installation against freezing
- Maintaining constant temperature of the medium

Application

- Frost protection of:
 - Water service pipes and/or water meters, condensation drains, fire mains, temporary water lines on building sites, water pipes in cowsheds, sprinkler systems, pumps, valves, outside water taps, water works on boats
- Frost protection of water pipes using ThermaLint with 13 mm pipe insulation



Technical Properties

Properties	Unit SI	Values
Physical properties		
Construction	-	Double wired system with only one feeding cable (cold part)
Versions	-	Different lengths flexible heating cable, double insulated and full ground wire with copper armor
Feeding cable	mm ²	3x0,75
Length of feeding cable	m	2 (with power plug)
Thermostat	-	Build in (closed and protected in a built in enclosure)
color	-	Feeding cable - black Heating cable - red
Power properties		
Power	Watt/m	16
Supply	V AC	230
Temperature properties		
Thermostat operating temperature	°C	+3 (on) to +12 (off)
Max. temperature resistance of the heating cable	°C	70

Availability

- Standard product lengths: 1-61 m

Product Code	Cable length [m]
7000-000001-000	1
7000-000002-000	2
7000-000004-000	4
7000-000008-000	8
7000-000012-000	12
7000-000014-000	14
7000-000018-000	18
7000-000024-000	24
7000-000036-000	36
7000-000048-000	48
7000-000061-000	61

Frost protection

Example of a minimum ambient temperature to protect pipes against freezing by using ThermaLint and insulation with 13 mm wall thickness

Pipe diameter	Ambient temperature
15 mm	-45°C
22 mm	-45°C
28 mm	-35°C
35 mm	-30°C
42 mm	-25°C
48 mm	-20°C
60 mm	-20°C
76 mm	-15°C

Tracingset

Heating cable by Thermaflex®

Electric cable designed to maintain the set temperature in the installation to protect the system against freezing



Benefits

- Solid protection of the installation against freezing
- Maintaining constant temperature of the medium
- Easy and quick assembly

Application

- Designed to maintain the set temperature in the installation in the range of 0 ° C to + 40 ° C
- Frost protection of:
 - Water service pipes and/or water meters, condensation drains, fire mains, temporary water lines on building sites, water pipes in cowsheds, sprinkler systems, pumps, valves, outside water taps, water works on boats
- Frost protection of water pipes using Tracingset with 13 mm pipe insulation



Design

Heating unit with thermostat

heating cable and an external thermostat, with a cylindrical sensor

Heating cable

Constant resistance flexible two-wire system

Technical Properties

Properties	Unit SI	Values
Physical properties		
Construction	-	Double wired system with only one feeding cable (cold part)
Versions	-	Different lengths flexible heating cable, double insulated and full ground wire with copper armor
Feeding cable	mm ²	3x0,75 (18,36,48,61,73m), 3x1,0 (146m)
Length of feeding cable	m	2
Thermostat	-	External thermostat with temperature sensor
color	-	Feeding cable - black Heating cable - red
Power properties		
Power	Watt/m	16
Supply	V AC	230
Temperature properties		
Thermostat operating temperature	°C	0 to +40

Availability

- Standard product lengths: 18-146 m

Product Code	Cable length [m]
7001-000018-000	18
7001-000036-000	36
7001-000048-000	48
7001-000061-000	61
7001-000073-000	73
7001-000146-000	146

Frost protection

Example of a minimum ambient temperature to protect pipes against freezing by using Tracingset and insulation with 13 mm wall thickness

Pipe diameter	Ambient temperature
15 mm	-45°C
22 mm	-45°C
28 mm	-35°C
35 mm	-30°C
42 mm	-25°C
48 mm	-20°C
60 mm	-20°C
76 mm	-15°C

ThermaRod

Special foam by ThermafLEX®

Filling space of construction occurring among others in floor topping, large panel construction, mounting windows, doors, etc...

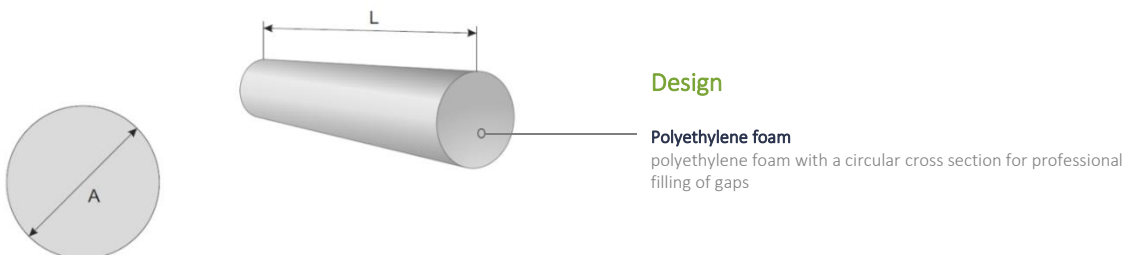


Benefits

- Professional filling of construction gaps
- Flexible and easy in application
- Wide range of diameters
- Sealed cellular structure

Applications

- Product for sealing joints, expansion joints, installation passages and working joints in walls, foundations, ceilings and floors
- For indoor applications



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Density	kg/m ³	Ø 6 to Ø 35: 21 - 25 Ø 40 to Ø 70: 22 - 27	-
Structure	-	Fine, closed-cells	-
Color	-	Grey	-
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Water resistance properties			
Water vapor resistance	prevents water vapor deposition when applied to window profiles, on the balconies		
Water absorption	less than 1% after 168 hours immersion in water		
Chemical resistance			
Chemical resistance to building materials	resistant to contact with used surfaces, building materials such as cement, gypsum, lime, concrete, resin masses, bitumen, dilute acids, aqueous alkaline solutions, non-aromatic solvents, alcohols, gasolines NOTE: fats and oils may cause slight swelling; ThermaRod is not resistant to strongly oxidizing acids, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, certain types of detergents; UV action speeds up the aging processes		

Availability

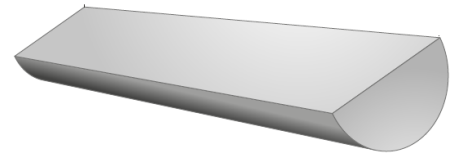
- Diameters 6-30mm in coils, delivered with packaging spool, diameters 35-70mm standard product length 2m (202-204cm) delivered in packaging foil bag

Item Code	Product Diameter [mm]	Tolerances		Sales Unit [m]
		A [mm]	L [cm]	
5800-601000-010	D-6	5.5-6.5	100000	1000
5800-800550-010	D-8	7.5-8.5	55000	550
5800-100350-010	D-10	9.5-10.5	35000	350
5800-130200-010	D-13	12.5-13.5	20000	200
5800-151000-010	D-15	14.5-15.5	100000	1000
5800-150200-010	D-15	14.5-15.5	20000	200
5800-200600-010	D-20	19.5-20.5	60000	600
5800-250400-010	D-25	24.5-25.5	40000	400
5800-300250-010	D-30	29.5-30.5	25000	250
5800-350100-110	D-35	34.0-36.0	202-204	100
5800-040200-210	D-40	39.0-41.0	202-204	100
5800-050200-210	D-50	49.0-51.0	202-204	50
5800-060200-210	D-60	58.5-61.5	202-204	50
5800-070200-210	D-70	68.5-71.5	202-204	50

ThermaRod – semi roll

Special foam by Thermaflex®

Filling space of construction occurring among others in floor topping, large panel construction, mounting windows, doors, etc...

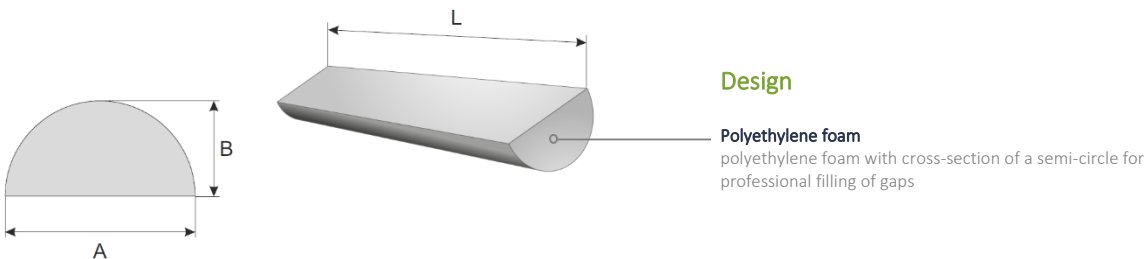


Benefits

- Professional filling of construction gaps
- Flexible and easy in application
- Wide range of diameters
- Sealed cellular structure

Applications

- Product for sealing joints, expansion joints, installation passages and working joints in walls, foundations, ceilings and floors
- For indoor applications



Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Density	kg/m ³	Ø 30 to Ø 35: 21 - 25 Ø 40 to Ø 70: 22 - 27	-
Structure	-	Fine, closed-cells	-
Color	-	Grey	-
Thermal properties			
Maximum service temperature	°C	+95	EN 14707
Water resistance properties			
Water vapor resistance	prevents water vapor deposition when applied to window profiles, on the balconies		
Water absorption	less than 1% after 168 hours immersion in water		
Chemical resistance			
Chemical resistance to building materials	resistant to contact with used surfaces, building materials such as cement, gypsum, lime, concrete, resin masses, bitumen, dilute acids, aqueous alkaline solutions, non-aromatic solvents, alcohols, gasolines NOTE: fats and oils may cause slight swelling; ThermaRod is not resistant to strongly oxidizing acids, ketones, aromatic hydrocarbons, chlorinated hydrocarbons, certain types of detergents; UV action speeds up the aging processes		

Availability

- Diameters 30-70mm, standard product length 2m (202-204cm) delivered in packaging foil bag

Item Code	Product Type [mm]	Tolerances			Sales Unit [m]
		A [mm]	B [mm]	L [cm]	
5051-030015-610	30/15	29.0-31.0	14.0-16.0	202-204	200
5051-035017-610	35/17	34.0-36.0	16.0-18.0	202-204	200
5051-040020-610	40/20	39.0-41.0	19.0-21.0	202-204	200
5051-050025-610	50/25	49.0-51.0	24.0-26.0	202-204	100
5051-060030-610	60/30	59.0-61.0	29.0-31.0	202-204	100
5051-070035-610	70/35	68.5-71.5	33.5-36.5	202-204	100

ProFoam – U Profile

Packaging profiles by Thermaflex®

Fully recyclable packaging profile made of flexible and robust high quality polyethylene foam

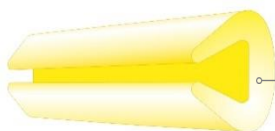


Benefits

- Fast and easy installation
- Edge protection for products of various shapes and sizes thanks to its elastic properties
- Self-clamping on the edge of the protected product due to its special shape
- Can be used as exclusive packaging material or in combination with cardboard or foil

Applications

- Protection against damage for all kind of corners and edges of furniture such as: table tops, glass salon furniture, furniture boards, doors, radiators, trusses, school boards, billboards, window frame sets, automotive spare parts, etc.



Design

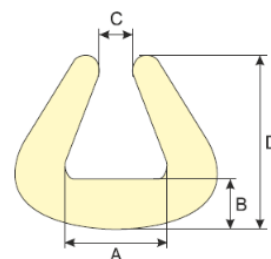
Polyethylene foam
durable insulation material

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	26 - 31	-
Structure	-	Fine, closed-cells	-
Color	-	Yellow / Blue	-
Odour	-	Neutral	-
Thermal properties			
Maximum service temperature	°C	+95	-
Thermal decomposition	°C	>160	-
Melting / softening range	°C	>70	-
Self-igniting	°C	>300	-
Explosive properties			
Explosive properties	-	None	-
Solubility			
In water	-	Insoluble	-
Organic solvents	-	Insoluble, partially soluble, swellable; depending on the type of solvent	-

Availability

- Standard product length is 2m (198-204cm) in carton boxes (205x60x40cm)



Item Code	Product Type	Tolerances				L [cm]	Sales Unit [m]
		A [mm]	B [mm]	C [mm]	D [mm]		
5001-007011-020	U7/11 (yellow)	9.5-11.5	5.0-7.0	0-3.0	28.5-31.5	198-204	720
5001-007011-030	U7/11 (blue)	9.5-11.5	5.0-7.0	0-3.0	28.5-31.5	198-204	720
5001-018000-020	U18 (yellow)	16.0-20.0	9.0-11.0	3.0-13.0	25.0-27.0	198-204	400
5001-018000-030	U18 (blue)	16.0-20.0	9.0-11.0	3.0-13.0	25.0-27.0	198-204	400
5001-030000-020	U30 (yellow)	28.0-32.0	11.0-13.0	7.0-17.0	-	198-204	208
5001-030000-030	U30 (blue)	28.0-32.0	11.0-13.0	7.0-17.0	-	198-204	208

ProFoam – UT Profile

Packaging profiles by Thermaflex®

Fully recyclable packaging profile made of flexible and robust high quality polyethylene foam



Benefits

- Fast and easy installation
- Edge protection for products of various shapes and sizes thanks to its elastic properties
- Self-clamping on the edge of the protected product due to its special shape
- Can be used as exclusive packaging material or in combination with cardboard or foil

Applications

- Protection against damage for all kind of corners and edges of furniture such as: table tops, glass salon furniture, furniture boards, doors, radiators, trusses, school boards, billboards, window frame sets, automotive spare parts, etc.



Design

Polyethylene foam

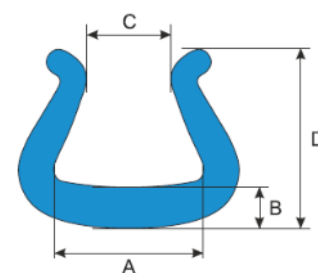
durable insulation material

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	26-31(pos. 1-2, 13) 24-28 (pos. 3-6) 27-33 (pos. 7-12)	-
Structure	-	Fine, closed-cells	-
Color	-	Blue / Yellow	-
Odour	-	Neutral	-
Thermal properties			
Maximus service temperature	°C	+95	-
Thermal decomposition	°C	>160	-
Melting / softening range	°C	>70	-
Self-igniting	°C	>300	-
Explosive properties			
Explosive properties	-	None	-
Solubility			
In water	-	Insoluble	-
Organic solvents	-	Insoluble, partially soluble, swellable; depending on the type of solvent	-

Availability

- Standard product length is 2m (198-204cm) in carton boxes (205x60x40cm)



Item Code	Product Type	Tolerances				L [cm]	Sales Unit [m]
		A [mm]	B [mm]	C [mm]	D [mm]		
5000-001000-020	U 10T (yellow)	10.0-12.0	6.0-7.0	2.0-4.0	20.0-24.0	198-204	700
5000-004000-020	U 40T (yellow)	38.0-42.0	11.0-13.0	15.0-25.0	-	198-204	160
5000-005015-030	U 5-15T (blue)	14.0-18.0	6.0-8.0	0.0-6.0	27.0-31.0	198-204	560
5000-015025-030	U 15-25T (blue)	22.0-26.0	7.0-9.0	7.0-13.00	32.0-36.0	198-204	320
5000-025035-030	U 25-35T (blue)	33.0-37.0	9.0-11.0	16.0-24.0	36.0-40.0	198-204	240
5000-035045-030	U 35-45T (blue)	39.0-43.0	10.0-14.0	20.0-30.0	41.0-45.0	198-204	180
5000-045060-030	U 45-60T (blue)	55.0-59.0	12.0-16.0	25.0-35.0	58.0-62.0	198-204	100
5000-045070-030	U 45-70T (blue)	68.0-72.0	16.0-20.0	20.0-40.0	126.0-136.0	198-204	44
5000-060080-030	U 60-80T (blue)	69.0-73.0	13.0-17.0	40.0-50.0	64.0-68.0	198-204	80
5000-080100-030	U 80-100T (blue)	95.0-101.0	18.0-22.0	50.0-70.0	69.0-75.0	198-204	72
5000-100120-030	U 100-120T (blue)	116.0-124.0	19.0-23.0	88.0-108.0	77.0-83.0	198-204	44
5001-030070-030	U 0-30/70T (blue)	27.0-31.0	13.0-15.0	0.0-0.0	88.0-100.0	198-204	100
5000-020006-020	U 20/6T (yellow)	18.0-20.0	5.0-7.0	6.0-12.0	44.0-47.0	198-204	300

ProFoam – MS Profile

Packaging profiles by Thermaflex®

Fully recyclable packaging profile made of flexible and robust high quality polyethylene foam

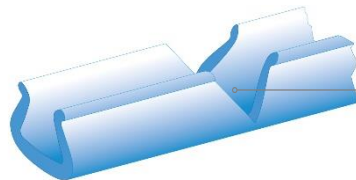
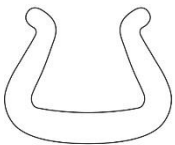


Benefits

- Fast and easy installation
- Edge protection for products of various shapes and sizes thanks to its elastic properties
- Self-clamping on the edge of the protected product due to its special shape
- Can be used as exclusive packaging material or in combination with cardboard or foil

Applications

- Protection against damage for all kind of corners and edges of furniture such as: table tops, glass salon furniture, furniture boards, doors, radiators, trusses, school boards, billboards, window frame sets, automotive spare parts, etc.



Design

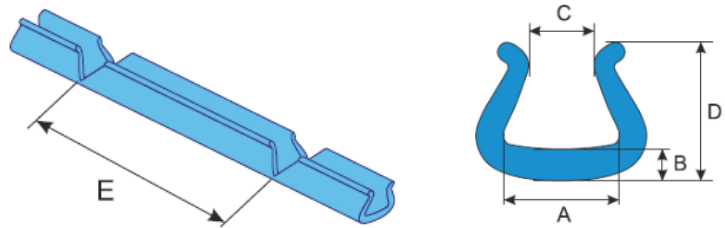
Polyethylene foam
durable insulation material

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	24-28	-
Structure	-	Fine, closed-cells	-
Color	-	Blue	-
Odour	-	Neutral	-
Thermal properties			
Maximum service temperature	°C	+95	-
Thermal decomposition	°C	>160	-
Melting / softening range	°C	>70	-
Self-igniting	°C	>300	-
Explosive properties			
Explosive properties	-	None	-
Solubility			
In water	-	Insoluble	-
Organic solvents	-	Insoluble, partially soluble, swellable; depending on the type of solvent	-

Availability

- Product in coil: 120x 45 cm



Item Code	Product Type	Tolerances					Sales Unit [m]
		A [mm]	B [mm]	C [mm]	D [mm]	E [cm]	
5000-005015-333	U5-15TMS	14.0-18.0	6.0-8.0	0.0-6.0	27.0-31.0	140.0-160.0	480
5000-015025-333	U15-25TMS	22.0-26.0	7.0-9.0	7.0-13.0	32.0-36.0	160.0-180.0	250
5000-025035-333	U25-35TMS	33.0-37.0	9.0-11.0	16.0-24.0	36.0-40.0	160.0-180.0	150
5000-035045-333	U35-45TMS	39.0-43.0	10.0-14.0	20.0-30.0	41.0-45.0	160.0-180.0	140

ProFoam – Packing Corner

Packaging profiles by Thermaflex®

Fully recyclable packaging profile made of flexible and robust high quality polyethylene foam

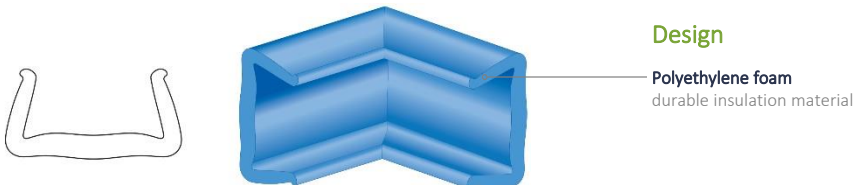


Benefits

- Fast and easy installation
- Edge protection for products of various shapes and sizes thanks to its elastic properties
- Self-clamping on the edge of the protected product due to its special shape
- Can be used as exclusive packaging material or in combination with cardboard or foil

Applications

- Protection against damage for all kind of corners and edges of furniture such as: table tops, glass salon furniture, furniture boards, doors, radiators, trusses, school boards, billboards, window frame sets, automotive spare parts, etc.

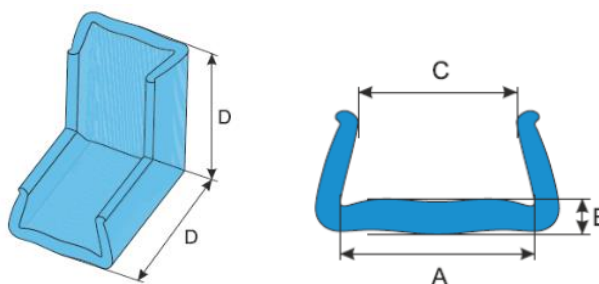


Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	24-28 (pos. 1-4) 27-33 (pos. 5-8)	-
Structure	-	Fine, closed-cells	-
Color	-	Blue	-
Odour	-	Neutral	-
Thermal properties			
Maximum service temperature	°C	+95	-
Thermal decomposition	°C	>160	-
Melting / softening range	°C	>70	-
Self-igniting	°C	>300	-
Explosive properties			
Explosive properties	-	None	-
Solubility			
In water	-	Insoluble	-
Organic solvents	-	Insoluble, partially soluble, swellable; depending on the type of solvent	-

Availability

- Product in box: 80x60x50 cm (pos. 1-4)
- Product in box: 120x80x50 cm (pos. 5-8)



Item Code	Product Type	Tolerances				Angle [°] between the arms	quantity /box (pcs)
		A [mm]	B [mm]	C [mm]	D [mm]		
5000-005015-230	U5-15TC	14.0-18.0	6.0-8.0	0.0-6.0	90-110	87-93	900
5000-015025-230	U15-25TC	22.0-26.0	7.0-9.0	7.0-13.0	90-110	87-93	600
5000-025035-230	U25-35TC	33.0-37.0	9.0-11.0	16.0-24.0	90-110	87-93	450
5000-035045-230	U35-45TC	39.0-43.0	10.0-14.0	20.0-30.0	90-110	87-93	300
5000-045060-230	U45-60TC	55.0-59.0	12.0-16.0	25.0-35.0	90-110	87-93	500
5000-060080-230	U60-80TC	69.0-73.0	13.0-17.0	40.0-50.0	90-110	87-93	400
5000-080100-230	U80-100TC	95.0-101.0	18.0-22.0	50.0-70.0	90-110	87-93	280
5000-100120-230	U100-120TC	116.0-124.0	19.0-23.0	88.0-108.0	190-210	87-93	90

ProFoam – TS Profile

Packaging profiles by Thermaflex®

Fully recyclable packaging profile made of flexible and robust high quality polyethylene foam

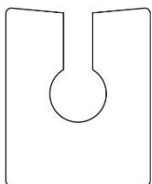


Benefits

- Fast and easy installation
- Edge protection for glass products
- Can be used as exclusive packaging material or in combination with cardboard or foil

Applications

- Car windscreens protection
- Can be used as an impact amortized or edge protector for thin tops such as glass, mirrors and polyester
- Can be used to separate individual layers of boards from one another to protect their surface



Design

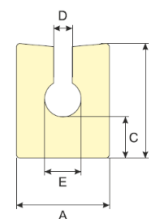
Polyethylene foam
durable insulation material

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	26-31	-
Structure	-	Fine, closed-cells	-
Color	-	Yellow	-
Odour	-	Neutral	-
Thermal properties			
Maximum service temperature	°C	+95	-
Thermal decomposition	°C	>160	-
Melting / softening range	°C	>70	-
Self-igniting	°C	>300	-
Explosive properties			
Explosive properties	-	None	-
Solubility			
In water	-	Insoluble	-
Organic solvents	-	Insoluble, partially soluble, swellable; depending on the type of solvent	-

Availability

- Product in box: 205 x 60 x 40 cm (pos.1)
- Product in coil: 100 x 50 cm (pos.2)



Item Code	Product Type	Tolerances					L [cm]	Sales Unit [m]
		A [mm]	B [mm]	C [mm]	D [mm]	E [cm]		
5004-050000-020	TS 50	24.0-28.0	31.0-35.0	11.0-13.0	0.0-4.0	6.0-8.0	198-204	400
5004-050000-423	TS 50 coil	24.0-28.0	31.0-35.0	11.0-13.0	0.0-4.0	6.0-8.0	32500	325

ProFoam – L Profile

Packaging profiles by Thermaflex®

Fully recyclable packaging profile made of flexible and robust high quality polyethylene foam

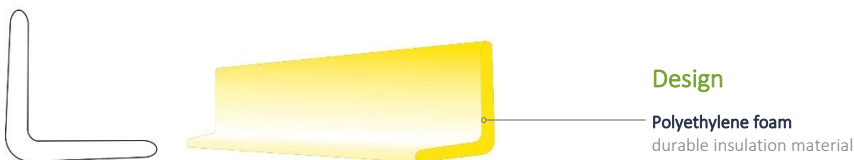


Benefits

- Fast and easy installation
- Edge protection for products of various shapes and sizes thanks to its elastic properties
- Can be used as exclusive packaging material or in combination with cardboard or foil

Applications

- Protection against damage for all kinds of corners and edges of furniture, washing machines, refrigerators, dryers, electronic hi-fi products, door panels and luxury consumer products, etc. before damage

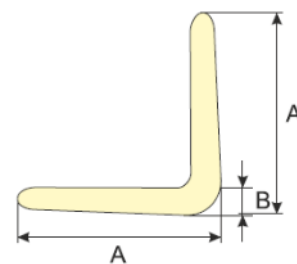


Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	26-31	-
Structure	-	Fine, closed-cells	-
Color	-	Yellow	-
Odour	-	Neutral	-
Thermal properties			
Maximum service temperature	°C	+95	-
Thermal decomposition	°C	>160	-
Melting / softening range	°C	>70	-
Self-igniting	°C	>300	-
Explosive properties			
Explosive properties	-	None	-
Solubility			
In water	-	Insoluble	-
Organic solvents	-	Insoluble, partially soluble, swellable; depending on the type of solvent	-

Availability

- Product in box: 205x60x40cm (pos. 1,3)
- Product in foil: 205x50x50cm (pos.2)



Item Code	Product Type	Tolerances		Angle [°] between the arms	Sales Unit [m]
		A [mm]	B [mm]		
5002-050000-020	L50	48.0-52.0	5.0-7.0	60-90	400
5002-075000-020	L75	73.0-77.0	9.0-11.0	60-90	170

ProFoam – System Profile

Packaging profiles by Thermaflex®

Fully recyclable packaging profile made of high quality polyolefin foam, closed-cell structure

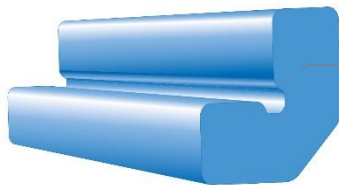
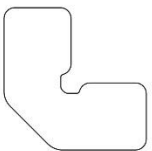


Benefits

- Fast and easy installation
- Edge protection for products of various shapes and sizes thanks to its elastic properties
- Self-clamping on the edge of the protected product due to its special shape
- Can be used as exclusive packaging material or in combination with cardboard or foil

Applications

- Protection against damage for all kind of corners and edges of furniture such as: table tops, glass salon furniture, furniture boards, doors, radiators, trusses, school boards, billboards, window frame sets, automotive spare parts, etc.

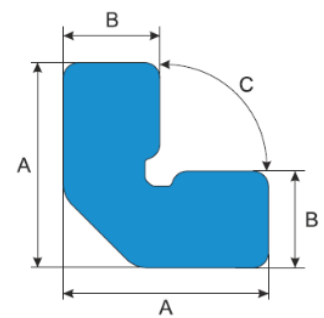


Design

Polyethylene foam
durable insulation material

Technical Properties

Properties	Units SI	Values	Testing method
Physical properties			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m ³	26-31	-
Structure	-	Fine, closed-cells	-
Color	-	Blue	-
Odour	-	Neutral	-
Thermal properties			
Maximum service temperature	°C	+95	-
Thermal decomposition	°C	>160	-
Melting / softening range	°C	>70	-
Self-igniting	°C	>300	-
Explosive properties			
Explosive properties	-	None	-
Solubility			
In water	-	Insoluble	-
Organic solvents	-	Insoluble, partially soluble, swellable; depending on the type of solvent	-



Availability

- Product in box: 205x60x40 cm

Item Code	Product Type	Tolerances				Sales Unit [m]
		A [mm]	B [mm]	C (angle) [°]	L [mm]	
5000-005015-230	U5-15TC	14.0-18.0	6.0-8.0	0.0-6.0	198-204	140

Tools & Accessories

Tools & Accessories Insulation by Thermaflex®

Full range of accessories to simplify the assembly process.

Tools & accessories ensure trouble-free performance for many years with a minimum of energy loss.



Benefits

- A complete selection of proven accessories
- Ease of installation to save time
- Warranty
- Safe to use
- Attractive aesthetics
- High quality tools
- Complete toolboxes

Complete solutions for quick assembly

Toolbag

Set contains:

Knives set, straight edge paring knife (8cm), whetstone, talmeter marking measure roll, outside calipers, folding ruler, compass scribing tool (300), compass scribing tool (150), White marker, brush for glue, straps for Knives set, squeegee blue



Toolbox

Set contains:

Steel, dies, meter, clips, metribox template, glue, brush for glue, small knife, large knife, cap, installation instructions, DuctTape - grey, DuctTape - red.



HeatPlate







Innovative connection technology

Thermaflex insulation can be welded with HeatPlate tool creating a solid and homogeneous bond between the components. Clean and environmentally friendly! Availability: 110 V and 230 V



Availability

Product code	Product	Sales measurement	Pieces in package	Product photo	
Toolbag					
3800-000000-020	Toolbag set	1 package	1		
3800-000000-120	Toolbag empty	1 piece	1		
3802-000000-010	Knives set	2 pieces in the set	1		
3802-000080-100	Straight edge paring knife (8cm)	1 piece	1		
3800-000000-310	Whetstone	1 piece	1		
3800-000000-600	Outside calipers	1 piece	1		
3800-000000-611	Compass scribing tool (300)	1 piece	1		
3800-000000-610	Compass scribing tool (150)	1 piece	1		
3800-000000-430	Folding ruler	1 piece	1		
3800-000000-410	Talmeter Marking measure roll	1 piece	1		
3800-000000-900	White marker	1 piece	1		
3801-000000-100	Brush for glue	1 piece	1		
3800-000000-700	Squeegee blue	1 piece	1		
Toolbox					
3800-000000-000	Toolbox	1 package	1		
Accessories & Tools					
3808-001230-000	HeatPlate (230 V)	1 piece	1		
3808-001110-000	HeatPlate (110 V)	1 piece	1		
3701-050015-001	ThermaTape PE 3mm x 50mm x 15m	1 roll = 15m x 10 psc	10		
3702-050015-100	ThermaTape TS PRO 2mm x 50mm x 15m	1 roll = 15m	10		
3721-050025-001	ThermaTape PVC grey 0,13mm x 50mm x 25m	1 roll = 25m x 18 pcs	18		
3721-025025-001	ThermaTape PVC grey 0,13mm x 25mm x 25m	1 roll = 25m x 24	24		
3701-050050-211	ThermaTape red 50mm x 50m	1 roll = 50m x 24 pcs	24		
3701-050050-221	DuctTape yellow 50mm x 50m	1 roll = 50m x 24 pcs	24		
3922-002070-000	Tape WB 2mm/70 mm, red, 3,6m	1 roll = 3,6m x 165 pcs	165		
3922-002100-000	Tape WB 2mm/100 mm, red, 3,6m	1 roll = 3,6m x 120 pcs	120		
3731-050050-301	ThermaTape ALU SA 50mm x 50m	1 roll = 50m x 12	12		
3921-002070-100	Tape WB Vlies 2mm/70 mm, red, 3,6m	1 roll = 3,6m x 165 pcs.	165		
3921-002070-110	Tape WB Vlies SA 2mm/70 mm, red, 3,6m	1 roll = 3,6m x 165 pcs	165		
3921-002100-100	Tape WB Vlies 2mm/100 mm, red, 3,6m	1 roll = 3,6m x 120 pcs	120		
3921-002100-110	Tape WB Vlies SA 2mm/100 mm, red, 3,6m	1 roll = 3,6m x 120 pcs	120		

3700-000250-000	ThermaGlue 0,25L	1 piece	24	
3700-001000-000	ThermaGlue 1L	1 piece	12	
3700-005000-000	ThermaGlue 5L	1 piece	1	
3700-020000-000	ThermaGlue 20L	1 piece	1	
3801-000000-000	Glue pump	1 piece	1	
3801-000011-110	Brush 11mm (for the pump)	1 piece	1	
3801-000017-120	Brush 17mm (for the pump)	1 piece	1	
3801-000011-100	Brush 8mm (for the pump)	1 piece	1	
3703-000000-200	Thermaclips (1 bag x 100 pcs)	10 bags	250	
3703-000000-210	Thermaclips (1bag x 50 pcs)	10 bags	250	
3703-000000-220	Thermaclips (25 bags x 100 pcs)	25 bags	250	
3800-000000-500	Metri-box (inner width 12cm)	1 piece	1	
3802-000250-100	Knife for insulation	1 piece	1	
3802-000270-200	Knife for insulation	1 piece	1	
3802-000080-100	Knife for insulation Victorinox	1 piece	1	
3802-000000-000	Knives set	1 set	1	
3802-000000-010	Knives set VIP	1 set (2 pcs in the set)	1	



THERMAFLEX®

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