



Floor Heating products

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Nub panel SYMPOR Unisolo 14-17

Pipe fixing panel, thermoformed
polystyrene without EPS
Pipe laying grid 50 mm
For pipe diameter 14 – 17 mm

For any under insulation
Black PS foil, thickness 1 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Unisolo 14-17

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/pallet	m ² /pallet
001FHUSO-001	Unisolo 14-17	0	20	1,12	130	145,6

Item No.	Type	Insulation Thickness mm	Total Thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton
001FHUSO-002	Unisolo 14-17	0	20	1,12	18	20,16

Technical data

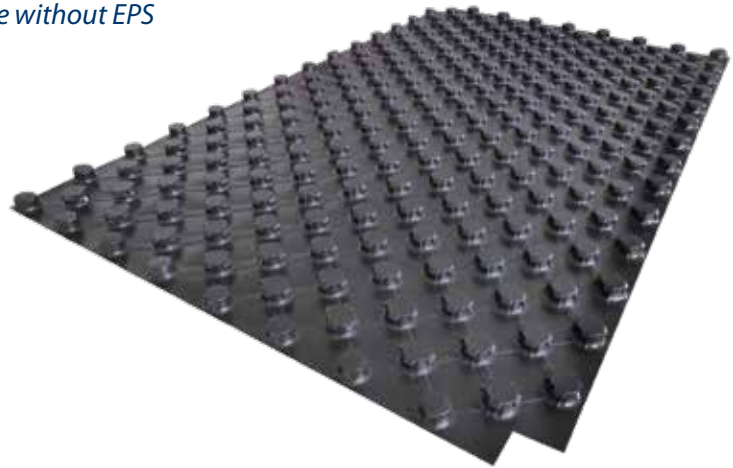
	Unit	Value
Max. traffic load	kPa	5-75
Laying grid	mm	50
Maximum load/Jumbo truck 26 pallets a` 130 pieces each	m ²	3785,6
Maximum load/Jumbo truck 260 carton a` 18 pieces each	m ²	5241,6

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Solo 14-16

Pipe fixing panel thermoformed polystyrene without EPS
Pipe laying grid 50 mm
For pipe diameter 14-16 mm
For any under insulation
Black foil, thickness 1 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Solo 14-16

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/pallet	m ² /pallet
001FHSO-14-001	Solo 14-16	0	20	1,12	130	145,6
Item No.	Type	Insulation Thickness mm	Total Thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton
001FHSO-14-002	Solo 14-16	0	20	1,12	20	22,4

Technical data

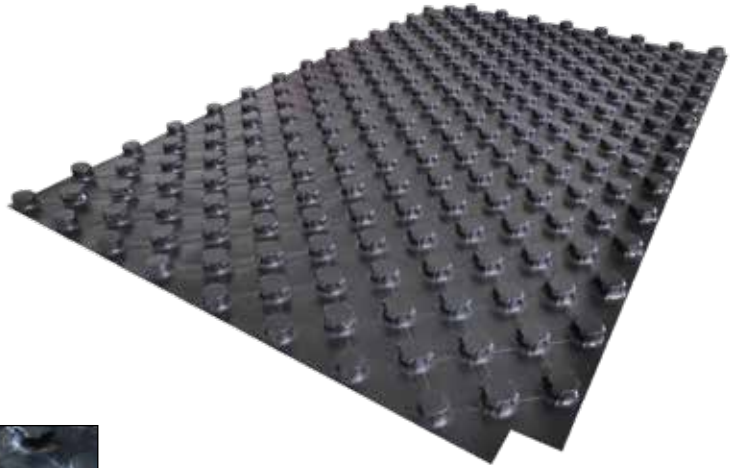
	Unit	Value
Maximum traffic load	kPa	5-75
Laying grid	mm	50
Maximum load/Jumbo truck 26 pallets à 130 pieces each	m ²	3785,6
load/Jumbo truck 260 cartons à 20 pieces each	m ²	5824

Maximum load per Jumbo truck: 26 pallets à 10 cartons = 260 cartons

Nub panel SYMPOR Duro 14-16 EPS 150

Pipe fixing panel with EPS heat insulation
For pipe diameter 14-16 mm
For normal traffic load
EPS insulation thickness 10-50 mm
Covered by a black PS foil with
0,6 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Duro 14-16 EPS 150

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHD-14-001-150	ND 10	10	30	1,12	12	13,44	0,25
001FHD-14-002-150	ND 20	20	40	1,12	8	8,96	0,50
001FHD-14-003-150	ND 30	30	50	1,12	6	6,72	0,75
001FHD-14-004-150	ND 40	40	60	1,12	5	5,6	1,00
001FHD-14-005-150	ND 50	50	70	1,12	4	4,48	1,25

Technical data

	Einheit	Wert
Thermal heat conductivity group λ_D	W/mK	0,040
Compressive stress at 10 % relative deformation	kPa	150
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	25
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS 150

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Duro 14-16 EPS 200

Pipe fixing panel with EPS heat insulation

For pipe diameter 14 – 16 mm

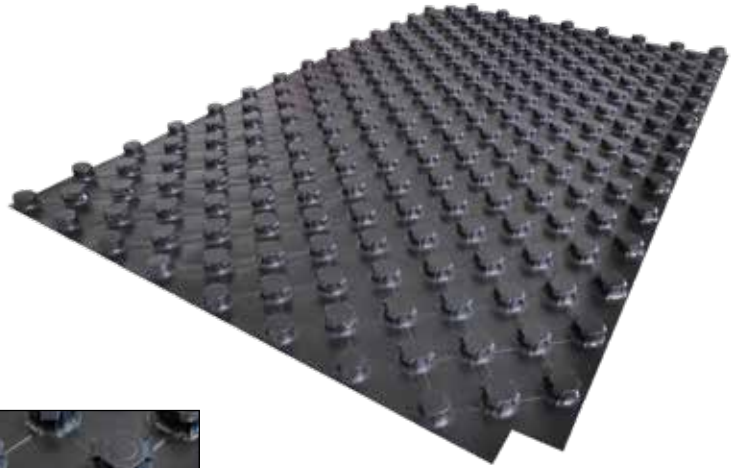
For high traffic load

EPS insulation thickness 10-50 mm

Covered by a black PS foil with

0,6 mm thickness

Pipe laying grid 50 mm



Panel format: 1400 x 800 mm



Nub panel SYMPOR Duro14-16 EPS 200

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHD-14-001	ND 10	10	30	1,12	12	13,44	0,286
001FHD-14-002	ND 20	20	40	1,12	8	8,96	0,57
001FHD-14-003	ND 30	30	50	1,12	6	6,72	0,857
001FHD-14-004	ND 40	40	60	1,12	5	5,6	1,14
001FHD-14-005	ND 50	50	70	1,12	4	4,48	1,43

Technical data

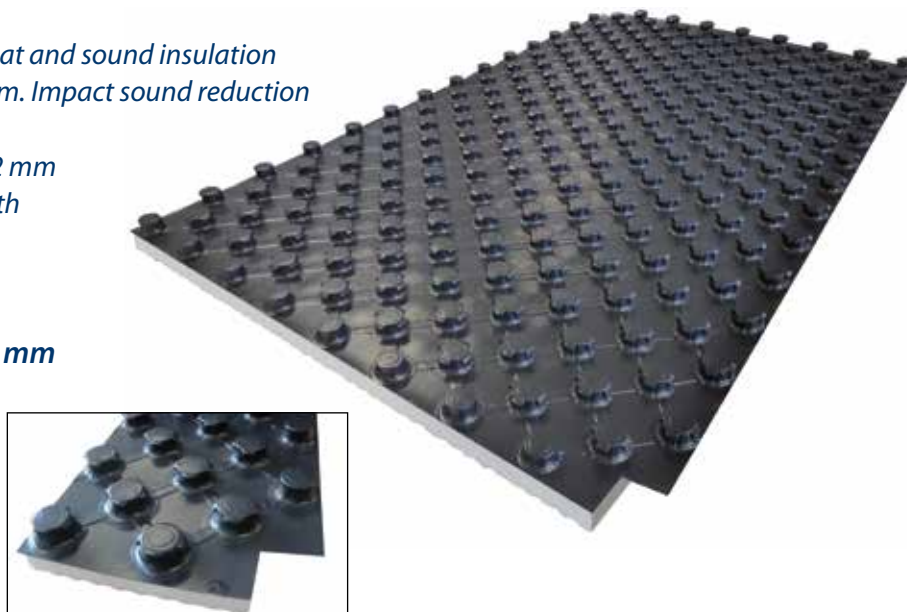
	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,035
Compressive stress at 10 % relative deformation	kPa	200
Max. traffic load	kPa	75
Laying grid	mm	50
Bulk density	kg/m ³	30
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS 200

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 14-16 ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 14 – 16 mm. Impact sound reduction
For normal traffic load
EPS insulation thickness 30-2 mm
Covered by a black PS foil with
0,6 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 14-16 ND 30-2

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-14-001	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	30
Sound impact improvement	dB	26
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	20
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS-T
Maximum load / Jumbo truck	m ²	1747,20

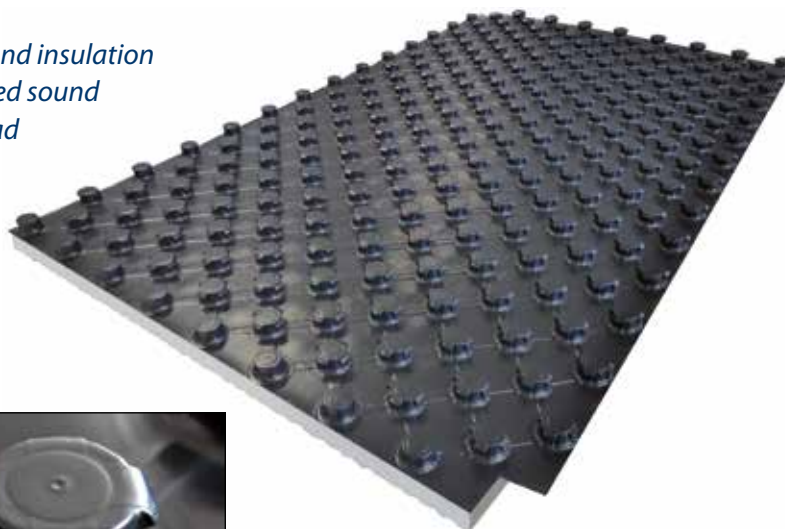
Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 14-16 Plus ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 14 – 16 mm. Improved sound
impact reduction. For normal traffic load
EPS insulation thickness 30-2 mm

Covered by a black PS Powerfoil
with 0,9 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 14 -16 Plus ND 30-2

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-003	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

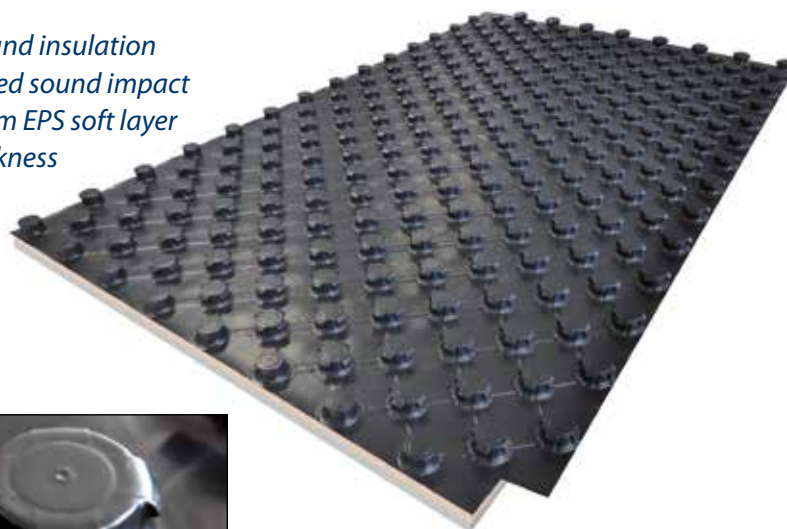
	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	20
Sound impact improvement	dB	28
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	15
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS-T
Maximum load / Jumbo truck	m ²	1747,20

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 14-16 Duo Density ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 14 – 16 mm. Improved sound impact reduction. 10 mm EPS hard layer, 20 mm EPS soft layer acoustic insulation. EPS insulation thickness 30-2 mm. For normal traffic load
Covered by a black PS foil with 0,6 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 14-16 Duo Density ND 30-2

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-14-005	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	20
Sound impact improvement	dB	28
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	30/12
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS -T
Maximum load / Jumbo truck	m ²	1747,20

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Solo 14-17

Pipe fixing panel, thermoformed polystyrene without EPS without EPS

Pipe laying grid 50 mm

For pipe diameter 14-17 mm

For any under insulation

Black foil, thickness 1 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Solo 14-17

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/pallet	m ² /pallet
001FHSO-14-17-001	Solo 14-17	0	20	1,12	130	145,6
Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton
001FHSO-14-17-002	Solo 14-17	0	20	1,12	20	22,4

Technical data

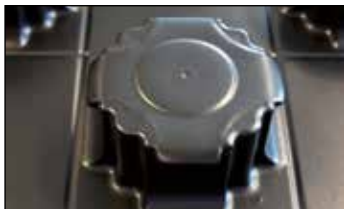
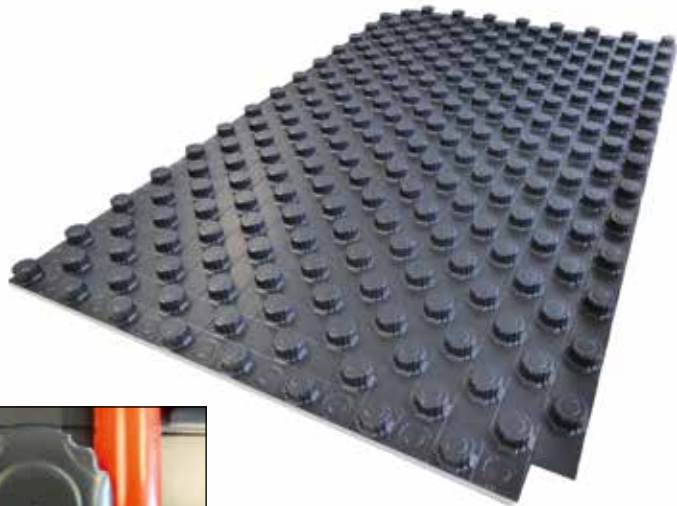
	Unit	Value
Max. traffic load	kPa	5-75
Laying grid	mm	50
Maximum load/Jumbo truck 26 pallets a` 130 pieces each	m ²	3785,6
Maximum load/Jumbo truck 260 carton a` 20 pieces each	m ²	5824

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Duro 14-17 EPS 150

Pipe fixing panel with EPS heat insulation
For pipe diameter 14-17 mm
For normal traffic load
EPS insulation thickness 10-50 mm
Covered by a black PS foil with
0,6 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Duro14-17 EPS 150

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHD-14-17-001-150	ND 10	10	30	1,12	12	13,44	0,25
001FHD-14-17-002-150	ND 20	20	40	1,12	8	8,96	0,50
001FHD-14-17-003-150	ND 30	30	50	1,12	6	6,72	0,75
001FHD-14-17-004-150	ND 40	40	60	1,12	5	5,6	1,00
001FHD-14-17-005-150	ND 50	50	70	1,12	4	4,48	1,25

Technical data

	Einheit	Wert
Thermal heat conductivity group λ_D	W/mK	0,040
Compressive stress at 10 % relative deformation	kPa	150
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	25
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS 150

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Duro 14-17 EPS 200

Pipe fixing panel with EPS heat insulation

For pipe diameter 14 – 17 mm

For high traffic load

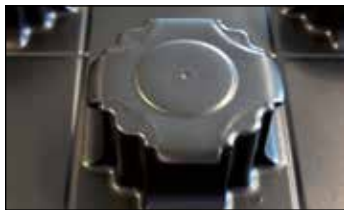
EPS insulation thickness 10-50 mm

Covered by a black PS foil with

0,6 mm thickness

Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Duro 14-17 EPS 200

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHD-14-17-001	ND 10	10	30	1,12	12	13,44	0,286
001FHD-14-17-002	ND 20	20	40	1,12	8	8,96	0,57
001FHD-14-17-003	ND 30	30	50	1,12	6	6,72	0,857
001FHD-14-17-004	ND 40	40	60	1,12	5	5,6	1,14
001FHD-14-17-005	ND 50	50	70	1,12	4	4,48	1,43

Technical data

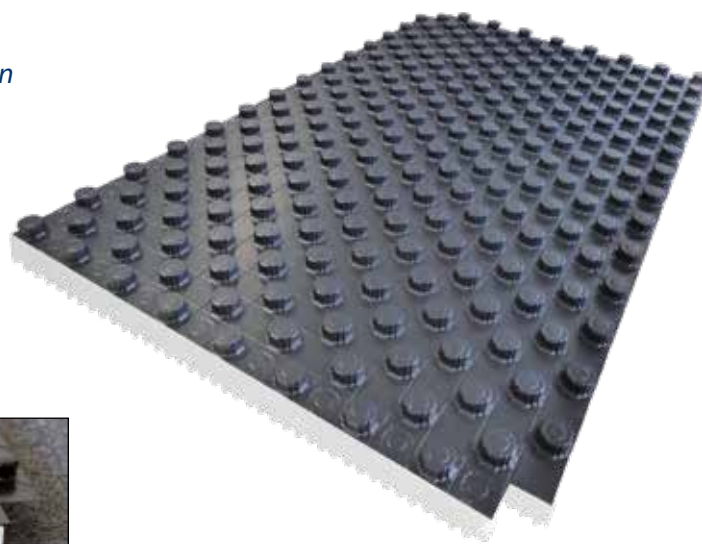
	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,035
Compressive stress at 10 % relative deformation	kPa	200
Max. traffic load	kPa	75
Laying grid	mm	50
Bulk density	kg/m ³	30
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS 200

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 14-17 ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 14-17 mm. Impact sound reduction
For normal traffic load
EPS insulation thickness 30-2 mm
Covered by a black PS foil with
0,6 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 14-17 ND 30-2

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-14-17-001	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	30
Sound impact improvement	dB	26
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	20
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS-T
Maximum load / Jumbo truck	m ²	1747,20

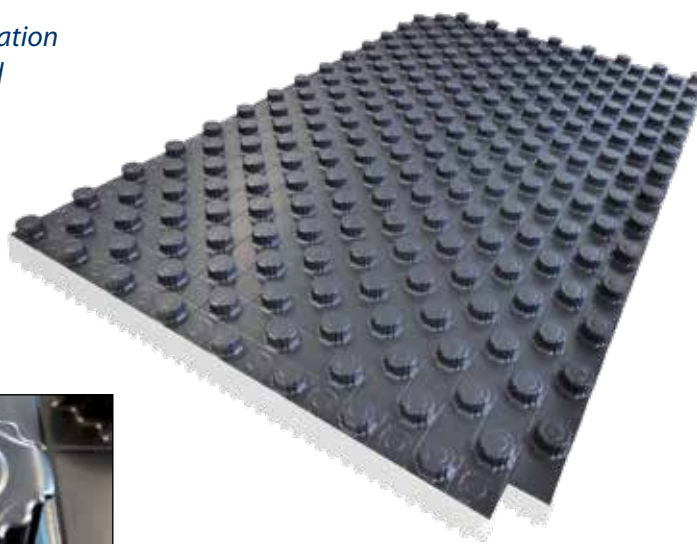
Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 14-17 Plus ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 14 – 17 mm. Improved sound
impact reduction. For normal traffic load
EPS insulation thickness 30-2 mm

Covered by a black PS Powerfoil
with 0,9 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 14-17 Plus ND 30-2

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-14-17-002	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

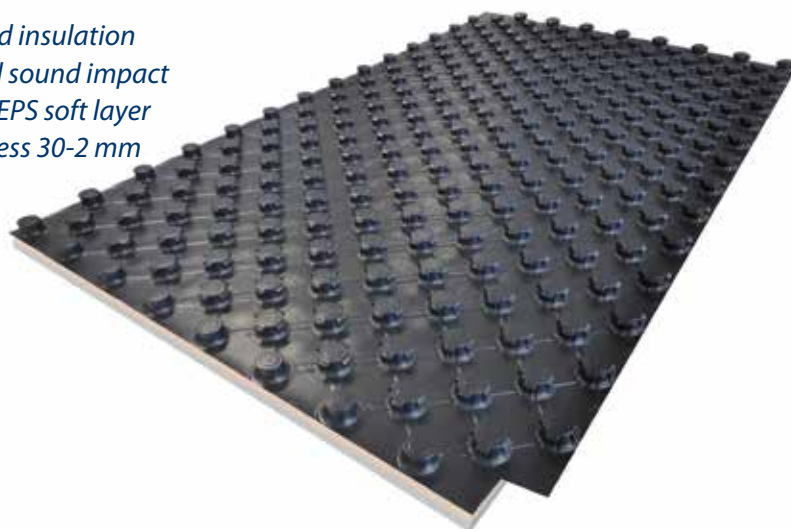
	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	20
Sound impact improvement	dB	28
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	15
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS-T
Maximum load / Jumbo truck	m ²	1747,20

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 14-17 Duo Density ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 14 – 17 mm. Improved sound impact
reduction 10 mm EPS hard layer. 20 mm EPS soft layer
acoustic insulation EPS insulation thickness 30-2 mm
For normal traffic load
**Covered by a black PS foil with
0,6 mm thickness**
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 14-17 Duo Density ND 30-2

Item No.	Type	Insulation Thickness mm	Total Thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSIDD-14-17-001	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	20
Sound impact improvement	dB	28
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	30/12
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS-T
Maximum load / Jumbo truck	m ²	1747,20

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Solo 16-18

Pipe fixing panel, thermoformed polystyrene without EPS

Pipe laying grid 50 mm

For pipe diameter 16-18 mm

For any under insulation

Black foil, thickness 1 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Solo 16-18

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/pallet	m ² /pallet
001FHUSO-001	Solo 16-18	0	20	1,12	130	145,6

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton
001FHUSO-002	Unisolo 16-18	0	20	1,12	20	22,4

Technical data

	Unit	Value
Max. traffic load	kPa	5-75
Laying grid	mm	50
Maximum load/Jumbo truck 26 pallets a` 130 pieces each	m ²	3785,6
Maximum load/Jumbo truck 260 carton a` 20 pieces each	m ²	5824

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Duro 16-18 EPS 150

Pipe fixing panel with EPS heat insulation

For pipe diameter 16-18 mm

For normal traffic load

EPS insulation thickness 10-50 mm

Covered by a black PS foil with

0,6 mm thickness

Pipe laying grid 50 mm



Panel format: 1400 x 800 mm



Nub panel SYMPOR Duro 16-18 EPS 150

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHD-001-150	ND 10	10	30	1,12	12	13,44	0,25
001FHD-002-150	ND 20	20	40	1,12	8	8,96	0,5
001FHD-003-150	ND 30	30	50	1,12	6	6,72	0,75
001FHD-004-150	ND 40	40	60	1,12	5	5,6	1,0
001FHD-005-150	ND 50	50	70	1,12	4	4,48	1,25

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,04
Compressive stress at 10 % relative deformation	kPa	150
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	25
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS 150

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Duro 16-18 EPS 200

Pipe fixing panel with EPS heat insulation

For pipe diameter 16-18 mm

For high traffic load

EPS insulation thickness 10-50 mm

Covered by a black PS foil with

0,6 mm thickness

Pipe laying grid 50 mm



Panel format: 1400 x 800 mm



Nub panel SYMPOR Duro 16-18 EPS 200

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHD-001	ND 10	10	30	1,12	12	13,44	0,286
001FHD-002	ND 20	20	40	1,12	8	8,96	0,57
001FHD-003	ND 30	30	50	1,12	6	6,72	0,857
001FHD-004	ND 40	40	60	1,12	5	5,6	1,14
001FHD-005	ND 50	50	70	1,12	4	4,48	1,43

Technical data

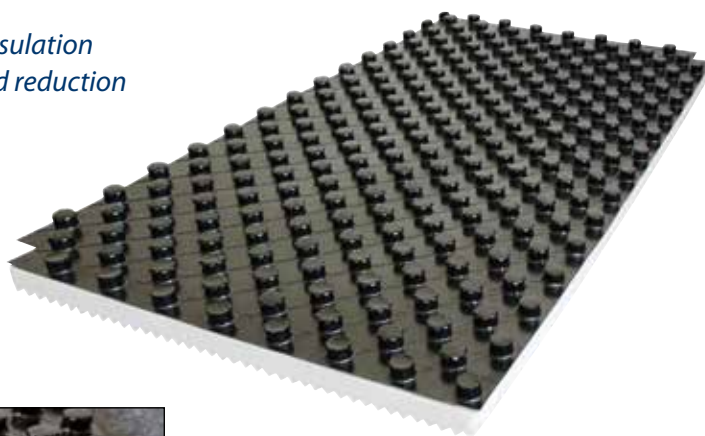
	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,035
Compressive stress at 10 % relative deformation	kPa	200
Max. traffic load	kPa	75
Laying grid	mm	50
Bulk density	kg/m ³	30
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS 200

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 16-18 ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 16 – 18 mm. Impact sound reduction
For normal traffic load
EPS insulation thickness 30-2 mm
Covered by a black PS foil with
0,6 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 16-18 ND 30-2

Item No.	Type	Insulation thickness mm	Total thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-001	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	30
Sound impact improvement	dB	26
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	20
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS -T
Maximum load / Jumbo truck	m ²	1747,20

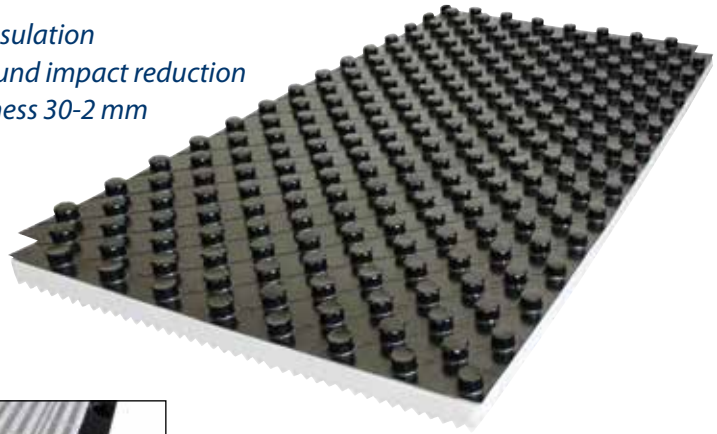
Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 16-18 Plus ND 30-2

Pipe fixing panel with EPS heat and sound insulation
For pipe diameter 16 – 18 mm. Improved sound impact reduction
For normal traffic load. EPS insulation thickness 30-2 mm

Covered by a black PS Powerfoil with
0,9 mm thickness
Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 16-18 Plus ND 30-2

Item No.	Type	Insulation Thickness mm	Total Thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-002	ND 30-2	30	52	1,12	6	6,72	0,75

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	20
Sound impact improvement	dB	28
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	15
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS-T
Maximum load / Jumbo truck	m ²	1747,20

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Nub panel SYMPOR Silenzio 16-18 Duo Density ND 30-2

Pipe fixing panel with EPS heat and sound insulation

For pipe diameter 16 – 18 mm. Improved sound impact reduction

10 mm EPS hard layer. 20 mm EPS soft layer acoustic insulation

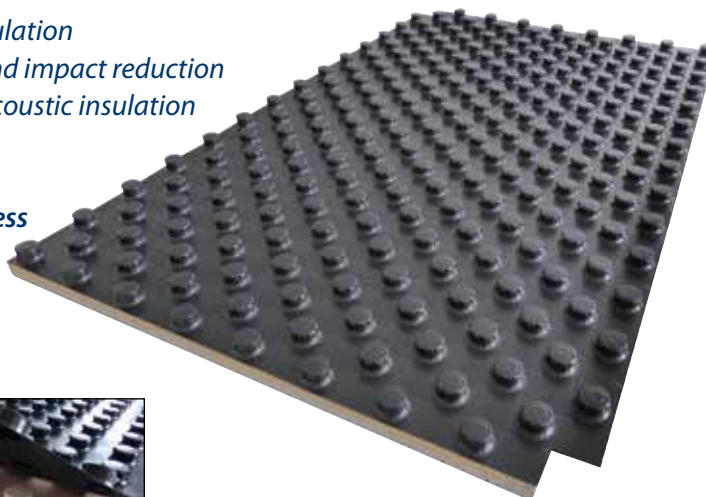
EPS insulation thickness 30-2 mm

For normal traffic load

Covered by a black PS foil with 0,6 mm thickness

Pipe laying grid 50 mm

Panel format: 1400 x 800 mm



Nub panel SYMPOR Silenzio 16-18 Duo Density ND 30-2

Item No.	Type	Insulation Thickness mm	Total Thickness mm	Usable surface m ²	Packing unit Pieces/carton	m ² /carton	Thermal resistance m ² K/W
001FHSI-005	ND 30-2	30	52	1,12	6	6,72	0,75

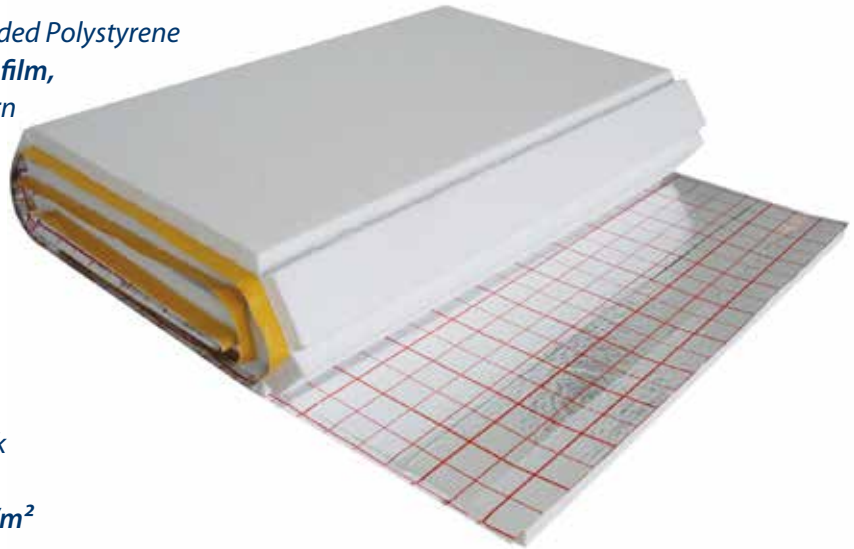
Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,040
Dynamic rigidity S'	MN/m ³	20
Sound impact improvement	dB	28
Max. traffic load	kPa	5
Laying grid	mm	50
Bulk density	kg/m ³	30/12
Fire behaviour (EN 13501-1)		Euroclasse E
Categorisation EN 13163		EPS-T
Maximum load / Jumbo truck	m ²	1747,20

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

SYMPOR Tacker panel roll EPS-T 650 ALU-PET

Heat and sound insulation of expanded Polystyrene EPS-T 650, laminated with **ALU PET film**, tear resistant, with printed on pattern 50 x 50 mm installation grid. Self adhesive strip on one side of the film allows quick and precise connecting of the panel rolls.



Roll format : 10000 x 1000 mm

Packaging: PE bag

Pipe installation by Tacker pipe clip, or self adhesive U profile clamp track

Suitable for a total load of 650 kg/m²

SYMPOR Tacker panel roll EPS-T 650 ALU-PET

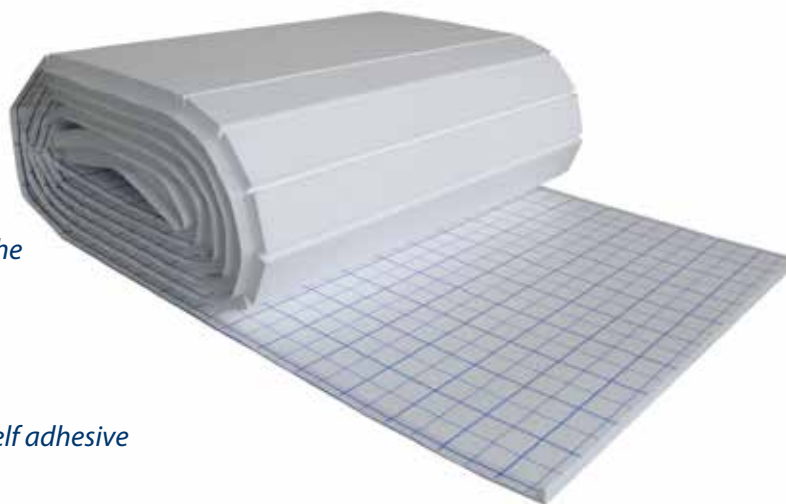
Item No.	Thickness mm	Length mm	Unit m ² / Roll	Max load KN/m ²	R m ² K/W	S' MN/m ³	VM dB
001TAKR-T650-20-2	20 -2	10000	10	6,5	0,5	30	27
001TAKR-T650-25-2	25-2	10000	10	6,5	0,63	30	27
001TAKR-T650-30-2	30-2	10000	10	6,5	0,75	20	29
R= Thermal resistance S' = Dynamic rigidity VM = Improvement of sound impact							

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,04
Flexibility resistance	kPa	≥ 50
Short term heat stability	° C	95
Long term heat stability	° C	75-80
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-T 650

SYMPOR Tacker panel roll EPS-T 650

Heat and sound insulation of expanded Polystyrene EPS-T650, laminated with white PP ribbon fabric film, tear resistant, with a blue printed on pattern 50 x50 mm installation grid. Self adhesive strip on one side of the film allows quick and precise connecting of the panel rolls.



Roll format : 10000 x 1000 mm

Packaging: PE bag

Pipe installation by Tacker pipe clip, or self adhesive U profile clamp track.

Suitable for a total load of 650 kg/m²

SYMPOR Tacker panel roll EPS-T 650

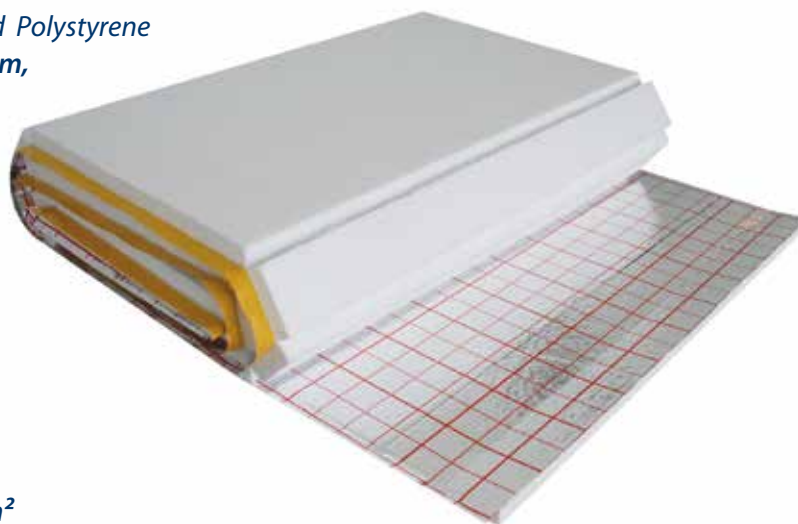
Item No.	Thickness mm	Length mm	Unit m ² /Roll	Max load KN/m ²	R m ² K/W	S' MN/m ³	VM dB
500TAKR-T650-20-2	20-2	10000	10	6,5	0,5	30	27
500TAKR-T650-25-2	25-2	10000	10	6,5	0,63	30	27
500TAKR-T650-30-2	30-2	10000	10	6,5	0,75	20	29
R= Thermal resistance S' = Dynamic rigidity VM = Improvement of sound impact							

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,04
Flexibility resistance	kPa	≥ 50
Short term heat stability	° C	95
Long term heat stability	° C	75-80
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-T 650

SYMPOR Tacker panel roll EPS-T 1000 ALU-PET

Heat and sound insulation of expanded Polystyrene EPS-T 1000, laminated with **ALU PET film**, tear resistant, with printed on pattern 50 x 50 mm installation grid. Self adhesive strip on one side of the film allows quick and precise connecting of the panel rolls.



Roll format: 10000 x 1000 mm

Packaging: PE bag

Pipe installation by Tacker pipe clip, or self adhesive U profile clamp track.

Suitable for a total load of 1000 kg/m²

SYMPOR Tacker panel roll EPS-T 1000 ALU-PET

Item No.	Thickness mm	Length mm	Unit m ² / Roll	Max load KN/m ²	R m ² K/W	S' MN/m ³	VM dB
001TAKR-T1000-30-2	30-2	10000	10	10	0,79	≥ 30	27

R= Thermal resistance

S'= Dynamic rigidity

VM = Improvement of sound impact

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,038
Flexibility resistance	kPa	≥ 50
Short term heat stability	° C	95
Long term heat stability	° C	75-80
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-T 1000

SYMPOR Tacker panel roll EPS-T 1000

Sound and heat insulation of expanded Polystyrene EPS-T 1000, laminated with white PP ribbon fabric film, tear resistant, with a blue printed on pattern 50 x 50 mm installation grid. Self adhesive strip on one side of the film allows quick and precise connecting of the panel rolls.



Roll format: 10000 x 1000 mm

Packaging: PE bag

Pipe installation by Tacker pipe clip, or self adhesive U profile clamp track.

Suitable for a total load of 1000 kg/m²

SYMPOR Tacker panel roll EPS-T 1000

Item No.	Thickness mm	Length mm	Unit m ² / Roll	Max load kN/m ²	R m ² K/W	S' MN/m ³	VM dB
500 TAKR-T1000-30-2	30-2	10000	10	10	0,79	≥ 30	27

R= Thermal resistance

S'= Dynamic rigidity

VM = Improvement of sound impact

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,038
Flexibility resistance	kPa	≥ 50
Short term heat stability	°C	95
Long term heat stability	°C	75-80
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-T 1000

SYMPOR Tacker panel roll EPS-100 ALU-PET

Heat insulation of expanded Polystyrene EPS-100, laminated with ALU PET film, tear resistant, with printed on pattern 50 x 50 mm installation grid. Self adhesive strip on one side of the film allows quick and precise connecting of the panel rolls.



Roll format: 10000 x 1000 mm

Packaging: PE bag

Pipe installation by Tacker pipe clip, or self adhesive U profile clamp track.

Suitable for heavy traffic load

SYMPOR Tacker panel roll EPS-100 ALU-PET

Item No.	Thickness mm	Length mm	Unit m ² / Roll	Max load KN/m ²	R m ² K/W	S` MN/m ³	VM dB
001TAKR-W20-030	30	10000	10	20	0,75	-	-

R= Thermal resistance

S`= Dynamic rigidity

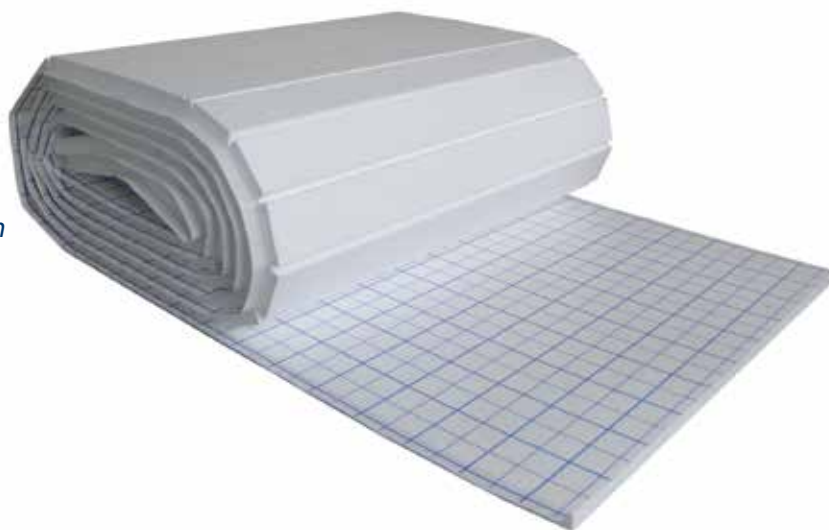
VM = Improvement of sound impact

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,038
Flexibility resistance	kPa	≥ 150
Short term heat stability	° C	95
Long term heat stability	° C	80-85
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-100

SYMPOR Tacker panel roll EPS-100

Heat insulation of expanded Polystyrene EPS-100, laminated with white PP ribbon fabric film, tear resistant, with a blue printed on pattern 50 x 50 mm installation grid. Self adhesive strip on one side of the film allows quick and precise connecting of the panels.



Panel format: 10000 x 1000 mm

Packaging: PE bag

Pipe installation by Tacker pipe clip, or self adhesive U profile clamp track.

Suitable for heavy traffic load

SYMPOR Tacker panel roll EPS-100

Item No.	Thickness mm	Length mm	Unit m ² / Roll	Max load kN/m ²	R m ² K/W	S' MN/m ³	VM dB
500 TAKR-W20-030	30	10000	10	20	0,75	-	-

R= Thermal resistance

S'= Dynamic rigidity

VM = Improvement of sound impact

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,038
Flexibility resistance	kPa	≥ 150
Short term heat stability	°C	95
Long term heat stability	°C	80-85
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-100

SYMPOR Tacker staple panel EPS 150

Heat insulation of expanded Polystyrene EPS-T 150, laminated with white PP ribbon fabric film, tear resistant, with a blue printed on pattern 50 x 50 mm installation grid. Self adhesive strip on one side of the film allows quick and precise connecting of the panels.

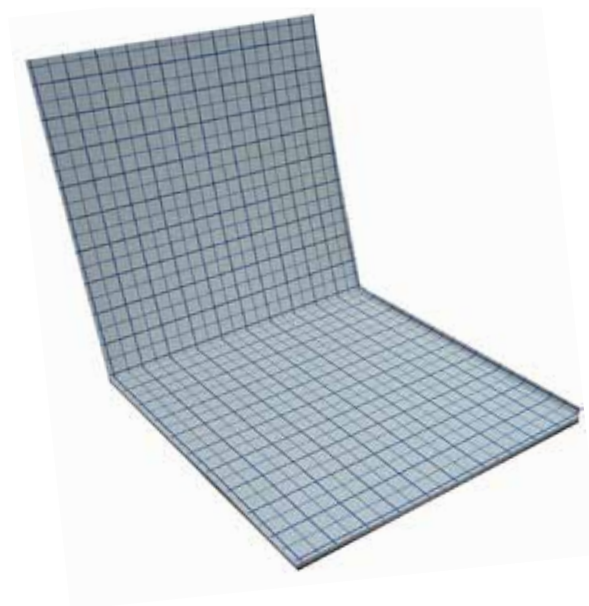
Panel format: 2000 x 1000 mm

Packaging: PE bag

Pipe installation by Tacker pipe clip, or self adhesive U profile clamp track.

Suitable for heavy traffic load

Insulation thickness 15 mm



SYMPOR Tacker staple panel EPS 150

Item No.	Thickness mm	Length mm	Unit m ² / Roll	Max load KN/m ²	R m ² K/W	S` MN/m ³	VM dB
500 TAKFP-W 30-015	15	2000	10	30	0,43	-	-
500 TAKFP-W 30-020	20	2000	10	30	0,57	-	-
500 TAKFP-W 30-025	25	2000	10	30	0,71	-	-
500 TAKFP-W 30-030	30	2000	10	30	0,86	-	-

R= Thermal resistance

S`= Dynamic rigidity

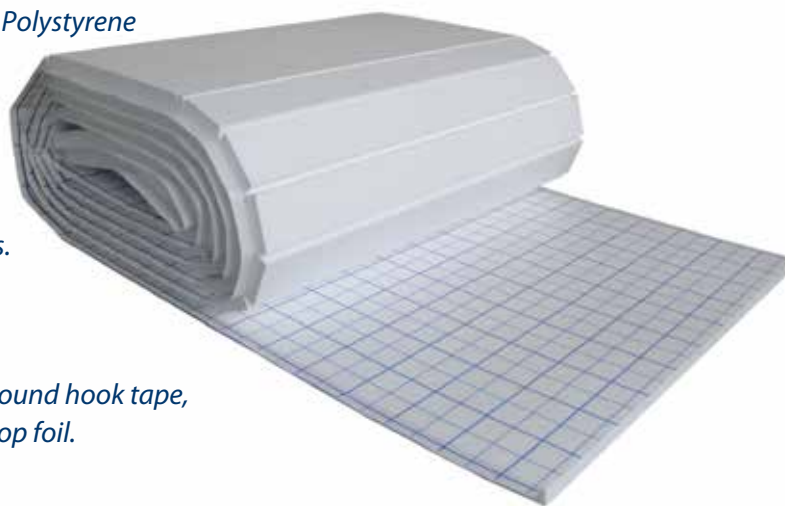
VM = Improvement of sound impact

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,035
Flexibility resistance	kPa	36-62
Short term heat stability	° C	95
Long term heat stability	° C	75-80
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-150

SYMPOR Klett panel roll EPS-T 650

Heat and sound insulation of expanded Polystyrene EPS-T 650, laminated with white tear resistant Velour loop foil with a blue printed on pattern 50 x 50 mm installation grid. Self adhesive strip on one side of the foil allows quick and precise connecting of the panel rolls.



Roll format: 10000 x 1000 mm

Packaging: PE bag

Pipes must be fabricated with wound around hook tape, the hook design must match with the loop foil.

Pipe dimensions 16 – 17 mm

Suitable for a total load of 650 kg/m²

SYMPOR Klett panel roll EPS-T 650

Item No.	Thickness mm	Length mm	Unit m ² / Roll	Max load KN/m ²	R m ² K/W	S` MN/m ³	VM dB
001KR-T650-20-2	20-2	10000	10	6,5	0,5	30	27
001KR-T650-25-2	25-2	10000	10	6,5	0,63	30	27
001KR-T650-30-2	30-2	10000	10	6,5	0,75	20	29
R= Thermal resistance S`= Dynamic rigidity VM = Improvement of sound impact							

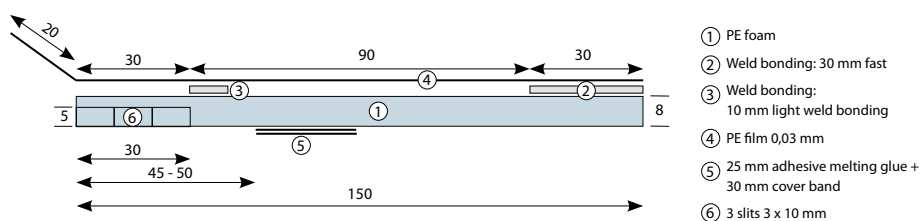
Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,04
Flexibility resistance	kPa	≥ 50
Short term heat stability	° C	95
Long term heat stability	° C	75-80
Fire behaviour (EN 13501-1)		Euroclasse E
Classification EN 13163		EPS-T 650

Edge insulation strip SYMPOR PE FSR Comfort 8/150

Self-adhesive edge insulation strip with
rip-off slits and film strap
Application: for cement and
floating screed

Dimensions: Length: 50 m
Height / width: 150 mm
Thickness: 8 mm



Edge insulation strip SYMPOR PE FSR Comfort 8/150

Item no.	Designation	Type	Packing unit bag
001RD-001	Edge insulation strip	Sympor PE FSR Comfort 8 / 150	8 rolls x 50 m = 400 m / bag

Technical data

Minimum order volume	1 bag = 400 m
Colour	blue
Transport/storage	dry storage; product must not be exposed to direct sunlight
Material class	B2 (normally flammable) according to DIN 4102
Special properties	Transparent or translucent film strap, 30 mm fast weld bonding, 10 mm light weld bonding

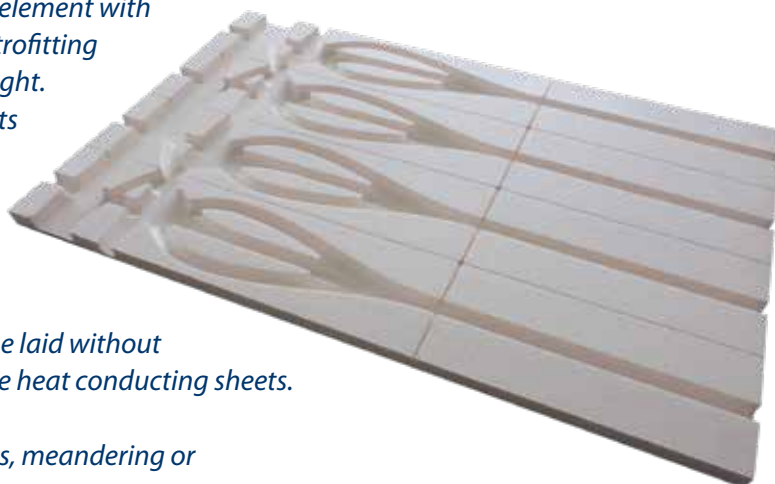
SYMPOR TBE 20-16 EPS 200 Drywall Construction Element

The Sympor TBE 20-16 drywall construction element with a total height of merely 20mm is ideal for retrofitting floor heating systems with minimal floor height.

For load distribution, galvanised metal sheets or dry screed plates are used.

The heat from the heating tube is distributed through omega-shaped heat conducting sheets made of aluminium or galvanised sheet metal.

This way tubes with a 16mm diameter can be laid without any difficulty and without popping out of the heat conducting sheets.



Due to the special design of the EPS elements, meandering or double meandering tube layouts are possible.

Sympor TBE 20-16 plates are foam-moulded in EPS 200 DEO quality and are quality controlled according to DIN EN 13163.

The high gross density allows high traffic loads of 5 kN/m².

Plate format: 800 x 500 mm



SYMPOR TBE 20-16 EPS 200 Drywall Construction Element

Article no.	Designation	Type	Packing unit Pieces/box
001TBE-20-16	Drywall construction element	Sympor TBE 20-16	10 Pieces/box= 4 m²

Technical data

	Unit	Value
Plate measurements/usable dimension	mm	800x500
Plate thickness	mm	20
Floor space	m²	0,4
Load capacity	kN/m²	5
Tube diameter	mm	16
Laying distance	mm	125 and 250
Heat conductivity declared value λ_D	W/mK	0,035
Heat transfer resistance R	m²K/W	0,57
Maximum traffic load	kPa	5
Compressive strength at 10% strain	kPa	≥ 200
Reaction to fire	Euro class E	

SYMPOR TBE 30-16 EPS 200 Drywall Construction Element

The Sympor TBE 30-16 drywall construction element with a total height of 30 mm is ideal for retrofitting floor heating systems with minimal floor height. For load distribution, galvanised metal sheets or dry screed plates are used.

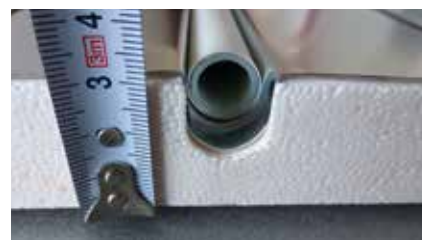
The heat from the heating tube is distributed through omega-shaped heat conducting sheets made of aluminium or galvanised sheet metal.

This way tubes with a 16mm diameter can be laid without any difficulty and without popping out of the heat conducting sheets.



Due to the special design of the EPS elements, meandering or double meandering tube layouts are possible. Sympor TBE 30-16 plates are foam-moulded in EPS 200 DEO quality and are quality controlled according to DIN EN 13163. The high gross density allows high traffic loads of 5 kN/m².

Plate format: 800 x 500 mm



SYMPOR TBE 30-16 EPS 200 Drywall Construction Element

Article no.	Designation	Type	Packing unit Pieces/box
001TBE-30-16	Drywall construction element	Sympor TBE 30-16	10 Pieces/box= 4 m ²

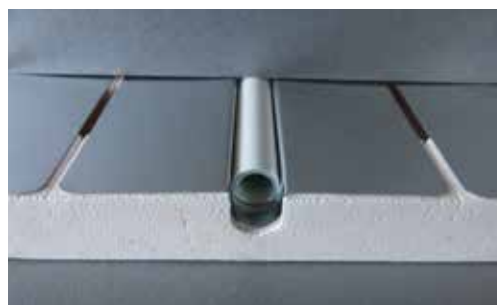
Technical data

	Unit	Value
Plate measurements/usable dimension	mm	800x500
Plate thickness	mm	30
Floor space	m ²	0,4
Load capacity	kN/m ²	5
Tube diameter	mm	16
Laying distance	mm	125 and 250
Heat conductivity declared value λ_D	W/mK	0,035
Heat transfer resistance R	m ² K/W	0,86
Maximum traffic load	kPa	5
Compressive strength at 10% strain	kPa	≥ 200
Reaction to fire	Euro class E	

SYMPOR WLB 16 Heat Conducting Sheet

Moulded heat conducting sheet made of galvanised steel or aluminium with pre-cut predetermined breaking points every 125mm to ensure the even distribution of loads and heat.

The secure hold of the tube is ensured by an Ω -shaped seat.



SYMPOR WLB 16 heat conducting sheet

Article no.	Designation	Type	Packing unit Pieces/carton
001WLB-001	Galvanised heat conducting sheet steel	WBL 16	50
001WLB-002	Heat conducting aluminium sheet	WBL 16	50

Technical data

	Unit	Value
Tube diameter	mm	16
Sheet thickness	mm	0,4-0,43
Width	mm	120
Length:	mm	750
Predetermined breaking point	mm	Every 125

SYMPOR PUR

Closed cell polyurethane rigid foam panel
with multi-layer composite film.
Applicable under screeds and underfloor heating.



SYMPOR PUR

Article no	Insulation thickness mm	Usable surface m ²	Packing unit/bundle m ²	Packing unit/pallet m ²	Thermal resistance m ² K/W
634PUR-24-020	20	20	0,75	18,75	0,85
634PUR-24-030	30	30	0,75	13,50	1,30
634PUR-24-040	40	40	0,75	9,75	1,70
634PUR-24-052	52	52	0,75	7,50	2,25
634PUR-24-060	60	60	0,75	6,75	2,60

Technical data

	Unit	Value
Thermal heat conductivity group λ_D	W/mK	0,023
Compressive stress at 10 % relative deformation	kPa	≤ 40 mm ≥ 150 > 40 mm ≥ 120
Fire behaviour (EN 13501-1)		E
Thickness tolerance (EN 13165)	mm	+/- 3
Length tolerance (EN 13165)	mm	+/- 7,5
Width tolerance (EN 13165)	mm	+/- 5
Temperature resistance (long-term)	°C	-50 to +120

SYMPOR Thin-film system

Innovative thin-film system for renovations, applicable for pipe dimensions from 14- 17 mm

System components:

- Sympor Unisolo Nub panel for installation of pipes with dimensions from 14 to 17 mm, grid spacing 5 cm
- Sympor lightweight concrete LB 400 (alternatively LB 400 S as a fast setting variant) for backfilling of space between the nubs after pipe installation
A flat deduction of Sympor lightweight concrete LB 400 (or LB 400 S) is performed at the top edge of the nubs (ca. 15 liter/m² corresponds to ca. 5-6 kg/m²)
- Application of renovation fleece UZIN RR 201, with 2 centimetres overlap
- Application of thin-screed UZIN NC 195, with a thickness of approximately 8 mm (ca. 20kg/m²)



Technical data

	Unit	Value
Total thickness	mm	ca. 28-30
Total weight	kg	< 30
Maximum point load*	kN	ca. 2
Maximal surface load	kN/m ²	ca 4

* for direct Installation on dry ground

SYMPOR Thin-film system

Installation steps



1. Installation of Sympor Unisolo 14-17 on a clean surface. Insertion of floor heating pipes



2. Backfilling of the space between the nubs with SYMPOR-LB 400 (or Sympor LB 400 S)



3. Flat deduction of SYMPOR-LB 400 (or Sympor LB 400 S) directly at the top edge of the nubs



4. Installation of the renovation fleece UZIN RR 201 with 2 cm overlap



5. Application of thin screed UZIN NC 195



6. Apply UZIN NC 195 with a thickness of approximately 8 mm

Technical data

Sympor floor heating panels tube diameter 14-16 mm without impact sound insulation

Technical characteristics	Unit	Solo 14-16	Duro 14-16 ND 10 EPS 200	Duro 14-16 ND 20 EPS 200	Duro 14-16 ND 30 EPS 200	Duro 14-16 ND 40 EPS 200	Duro 14-16 ND 50 EPS 200	Duro 14-16 ND 10 EPS 150	Duro 14-16 ND 20 EPS 150	Duro 14-16 ND 30 EPS 150	Duro 14-16 ND 40 EPS 150	Duro 14-16 ND 50 EPS 150
Panel format	mm	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850
Usable format	mm	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800
Usable surface	m ²	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12
Insulation thickness	mm		10	20	30	40	50	10	20	30	40	50
Total thickness	mm	20	30	40	50	60	70	30	40	50	60	70
Thermal heat conductivity group λ_o	W/mK		0,035	0,035	0,035	0,035	0,035	0,040	0,040	0,040	0,040	0,040
Thermal resistance	m ² K/W		0,286	0,57	0,857	1,14	1,43	0,25	0,5	0,75	1,0	1,25
Laying grid	mm	50	50	50	50	50	50	50	50	50	50	50
Tube diameter	mm	14-16	14-16	14-16	14-16	14-16	14-16	14-16	14-16	14-16	14-16	14-16
Density	kg/m ³		30	30	30	30	30	25	25	25	25	25
PS foil thickness	mm	1,00	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
Standard colour		Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Max traffic load	kP	5-75	75	75	75	75	75	5	5	5	5	5
Fire behaviour			Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E
Packaging unit	Pieces/carton	20	12	8	6	5	4	12	8	6	5	4
Packaging unit	m ² /carton	22,4	13,44	8,96	6,72	5,6	4,48	13,44	8,96	6,72	5,6	4,48
Packaging unit	Pieces/pallet	130										
Measurements carton	mm	1510x220x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860
Maximal load truck (carton)	m ²	5.241,60	3.494,40	2.329,60	1.747,20	1.456,00	1.164,80	3.494,40	2.329,60	1.747,20	1.456,00	1.164,80
Maximal load truck (pallett)	m ²	5.824										

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Technical data

Sympor floor heating panels tube diameter 14-17 mm without impact sound insulation

Technical characteristics	Unit	Unisol 14-17 Solo 14-17	Duro 14-17 ND 10 EPS 200	Duro 14-17 ND 20 EPS 200	Duro 14-17 ND 30 EPS 200	Duro 14-17 ND 40 EPS 200	Duro 14-17 ND 50 EPS 200	Duro 14-17 ND 10 EPS 150	Duro 14-17 ND 20 EPS 150	Duro 14-17 ND 30 EPS 150	Duro 14-17 ND 40 EPS 150	Duro 14-17 ND 50 EPS 150
Panel format	mm	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850
Usable format	mm	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800
Usable surface	m ²	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12
Insulation thickness	mm		10	20	30	40	50	10	20	30	40	50
Total thickness	mm	20	30	40	50	60	70	30	40	50	60	70
Thermal heat conductivity group λ_0	W/mK		0,035	0,035	0,035	0,035	0,035	0,040	0,040	0,040	0,040	0,040
Thermal resistance	m ² /W		0,286	0,57	0,857	1,14	1,43	0,25	0,5	0,75	1,0	1,25
Laying grid	mm	50	50	50	50	50	50	50	50	50	50	50
Tube diameter	mm	14-17	14-17	14-17	14-17	14-17	14-17	14-17	14-17	14-17	14-17	14-17
Density	kg/m ³		30	30	30	30	30	25	25	25	25	25
PS foil thickness	mm	1,00	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
Standard colour		Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Max traffic load	kP	5-75	75	75	75	75	75	5	5	5	5	5
Fire behaviour			Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E
Packaging unit	Pieces/carton	20	12	8	6	5	4	12	8	6	5	4
Packaging unit	m ² /carton	22,4	13,44	8,96	6,72	5,6	4,48	13,44	8,96	6,72	5,6	4,48
Packaging unit	Pieces/pallet	130										
Measurements carton	mm	1510x220x 860	1510x265x 860	1510x265x 860	1510x265x 860	1510x265x 860	1510x265x 860	1510x265x 860	1510x265x 860	1510x265x 860	1510x265x 860	1510x265x 860
Maximal load truck (carton)	m ²	5.241,60	3.494,40	2.329,60	1.747,20	1.456,00	1.164,80	3.494,40	2.329,60	1.747,20	1.456,00	1.164,80
Maximal load truck (pallett)	m ²	5.824										

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Technical data

Sympor floor heating panels tube diameter 16-18 mm without impact sound insulation

Technical characteristics	Einheit	Solo 16-18	Duro 16-18 ND 10 EPS 200	Duro 16-18 ND 20 EPS 200	Duro 16-18 ND 30 EPS 200	Duro 16-18 ND 40 EPS 200	Duro 16-18 ND 50 EPS 200	Duro 16-18 ND 10 EPS 150	Duro 16-18 ND 20 EPS 150	Duro 16-18 ND 30 EPS 150	Duro 16-18 ND 40 EPS 150	Duro 16-18 ND 50 EPS 150
Panel format	mm	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850	1450x850
Usable format	mm	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800	1400x800
Usable surface	m²	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12
Insulation thickness	mm		10	30	50	60	70	10	20	30	40	50
Total thickness	mm	20	30	40	50	60	70	30	40	50	60	70
Thermal heat conductivity group λ_D	W/mK		0,035	0,035	0,035	0,035	0,035	0,040	0,040	0,040	0,040	0,040
Thermal resistance	m²K/W		0,286	0,57	0,857	1,14	1,43	0,25	0,5	0,75	1,0	1,25
Laying grid	mm	50	50	50	50	50	50	50	50	50	50	50
Tube diameter	mm	16-18	16-18	16-18	16-18	16-18	16-18	16-18	16-18	16-18	16-18	16-18
Density	kg/m³		30	30	30	30	30	25	25	25	25	25
PS foil thickness	mm	1,00	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6
Standard colour		Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Max traffic load	kP	5-75	75	75	75	75	75	5	5	5	5	5
Fire behaviour			Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroklasse E
Packaging unit	Pieces/carton	20	12	8	6	5	4	12	8	6	5	4
Packaging unit	m²/carton	22,4	13,44	8,96	6,72	5,6	4,48	13,44	8,96	6,72	5,6	4,48
Packaging unit	Pieces/pallet	130										
Measurements carton	mm	1510x220x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860
Maximal load truck (carton)	m²	5.241,60	3.494,40	2.329,60	1.747,20	1.456,00	1.164,80	3.494,40	2.329,60	1.747,20	1.456,00	1.164,80
Maximal load truck (pallett)	m²	5.824										

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

Technical data Sympor floor heating panels

Tube diameter 14-16 mm / 14 – 17 mm and 16-18 mm with impact sound insulation

Technical characteristics	Unit	Silenzio 14-16 ND 30-2	Silenzio 14-17 ND 30-2	Silenzio 16-18 ND 30-2	Silenzio 14-16 Plus ND 30-2	Silenzio 14-17 Plus ND 30-2	Silenzio 16-18 Plus ND 30-2	Silenzio 14-16 Duo Density ND-30-2	Silenzio 14-17 Duo Density ND-30-2	Silenzio 16-18 Duo Density ND-30-2
Panel format	mm	1400 x 850	1400 x 850	1400 x 850	1400 x 850	1400 x 850	1400 x 850	1400 x 850	1400 x 850	1400 x 850
Usable format	mm	1400 x 800	1400 x 800	1400 x 800	1400 x 800	1400 x 800	1400 x 800	1400 x 800	1400 x 800	1400 x 800
Usable surface	m ²	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12	1,12
Insulation thickness	mm	30	30	30	30	30	30	30	30	30
Total thickness	mm	52	52	52	52	52	52	52	52	52
Thermal heat conductivity λD	W/mK	0,040	0,040	0,040	0,040	0,040	0,040	0,040	0,040	0,040
Thermal resistance	m ² /K/W	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
Laying grid	mm	50	50	50	50	50	50	50	50	50
Tube diameter	mm	14-16	14-17	16-18	14-16	14-17	16-18	14-16	14-17	16-18
Density	kg/m ³	20	20	20	15	15	15	30/12	30/12	30/12
PS foil thickness	mm	0,6	0,6	0,6	0,9	0,9	0,9	0,6	0,6	0,6
Standard colour		Black	Black	Black	Black	Black	Black	Black	Black	Black
Max. traffic load	kP	5	5	5	5	5	5	5	5	5
Dynamic rigidity	MN/m ³	30	30	30	20	20	20	20	20	20
Improvement sound impact	db	26	26	26	28	28	28	28	28	28
Fire behaviour		Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E	Euroclass E
Packaging unit	Pieces/carton	6	6	6	6	6	6	6	6	6
Packaging unit	m ² /carton	6,72	6,72	6,72	6,72	6,72	6,72	6,72	6,72	6,72
Packaging unit	Pieces/pallet	10	10	10	10	10	10	10	10	10
Measurements carton	mm	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860	1510x265x860
Maximal load truck/carton	m ²	1.747,20	1.747,20	1.747,20	1.747,20	1.747,20	1.747,20	1.747,20	1.747,20	1.747,20

Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons



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