



SYMPOR
EPS Industries

*Floor Heating
products*

| | |
|--|---------------|
| Sympor nub panels | 4 - 22 |
| <i>Unisolo 14-17</i> | 4 |
| <i>Solo 14-16</i> | 5 |
| <i>Duro 14-16 EPS 150</i> | 6 |
| <i>Duro 14-16 EPS 200</i> | 7 |
| <i>Silenzio 14-16 ND 30-2</i> | 8 |
| <i>Silenzio 14-16 Plus ND 30-2</i> | 9 |
| <i>Silenzio 14-16 Duo Density ND 30-2</i> | 10 |
| <i>Solo 14-17</i> | 11 |
| <i>Duro 14-17 EPS 150</i> | 12 |
| <i>Duro 14-17 EPS 200</i> | 13 |
| <i>Silenzio 14-17 ND 30-2</i> | 14 |
| <i>Silenzio 14-17 Plus ND 30-2</i> | 15 |
| <i>Silenzio 14-17 Duo Density ND 30-2</i> | 16 |
| <i>Solo 16-18</i> | 17 |
| <i>Duro 16-18 EPS 150</i> | 18 |
| <i>Duro 16-18 EPS 200</i> | 19 |
| <i>Silenzio 16-18 ND 30-2</i> | 20 |
| <i>Silenzio 16-18 PLUS ND 30-2</i> | 21 |
| <i>Silenzio 16-18 Duo Density ND 30-2</i> | 22 |
| Sympor Tacker panel rolls | 23-28 |
| <i>Tacker panel roll EPS-T 650 ALU-PET</i> | 23 |
| <i>Tacker panel roll EPS-T 650</i> | 24 |
| <i>Tacker panel roll EPS-T 1000 ALU-PET</i> | 25 |
| <i>Tacker panel roll EPS-T 1000</i> | 26 |
| <i>Tacker panel roll EPS-100 ALU-PET</i> | 27 |
| <i>Tacker panel roll EPS-100 white</i> | 28 |
| Tacker folding panel | 29 |
| Sympor Klett panel roll | 30 |
| Edge insulation strip | 31 |
| Drywall Construction Element | 32-36 |
| <i>Silver Reflex TBES 20-16 EPS 200 Drywall Construction Element</i> | 32 |
| <i>Silver Reflex TBES 30-16 EPS 200 Drywall Construction Element</i> | 33 |
| <i>TBE 20-16 EPS 200 Drywall Construction Element</i> | 34 |
| <i>TBE 30-16 EPS 200 Drywall Construction Element</i> | 35 |
| <i>WLB 16 Heat Conducting Sheet</i> | 36 |
| SYMPOR PUR | 37 |
| SYMPOR Thin film system | 38-39 |
| Technical data | 40-43 |

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

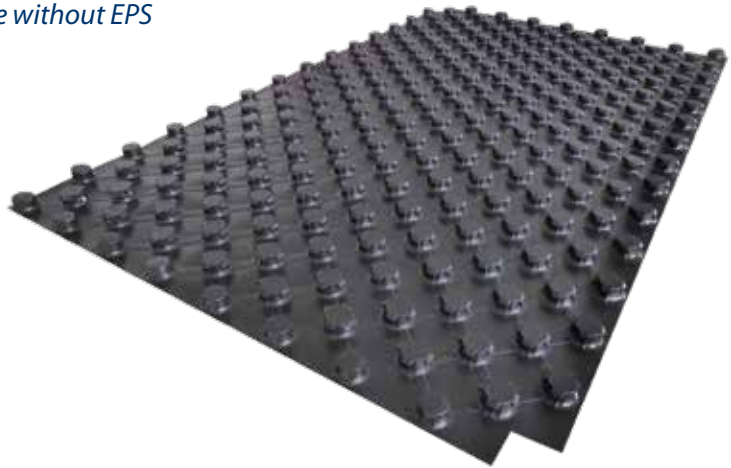
| | Unit | Value |
|--|----------------|--------|
| Max. traffic load | kPa | 5-75 |
| Laying grid | mm | 50 |
| Maximum load/Jumbo truck 26 pallets a` 130 pieces each | m ² | 3785,6 |
| Maximum load/Jumbo truck 260 carton a` 18 pieces each | m ² | 5241,6 |

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 |

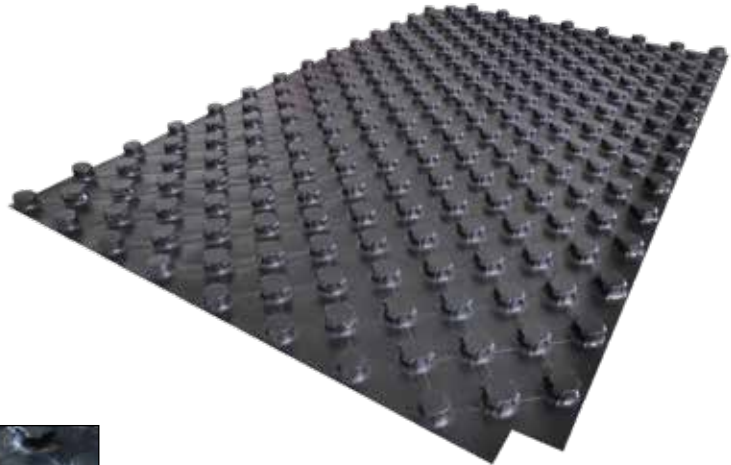
Technical data

| | 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 |

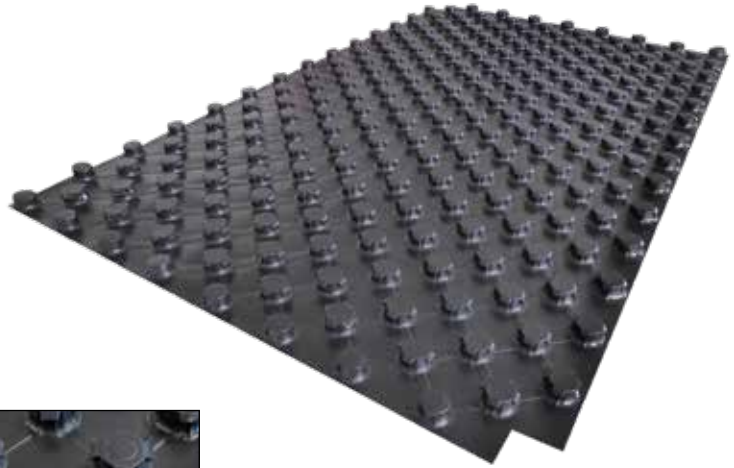
Technical data

| | 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

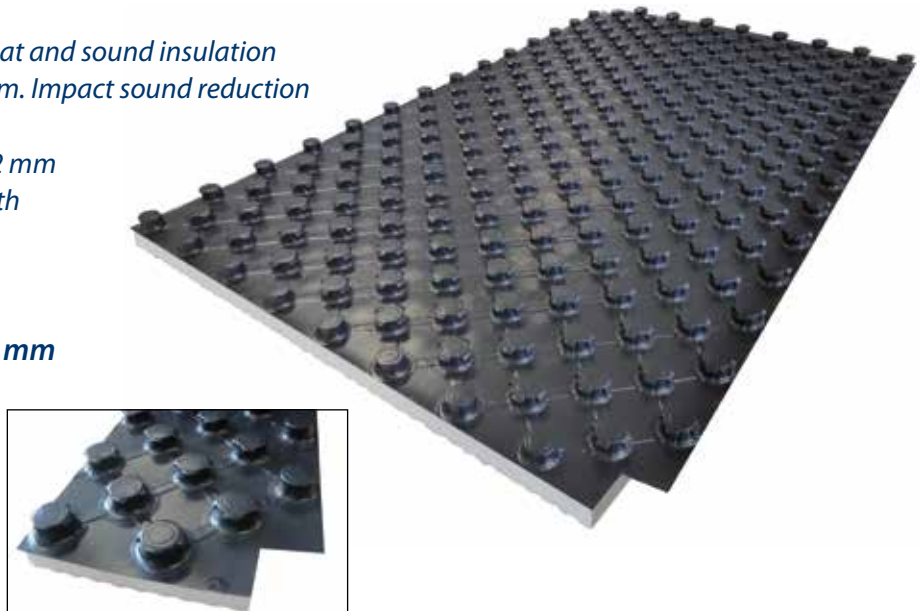
| | Unit | Value |
|---|-------------------|--------------|
| Thermal heat conductivity group λ_D | W/mK | 0,035 |
| Compressive stress at 10 % relative deformation | kPa | 200 |
| Max. traffic load | kPa | 75 |
| Laying grid | mm | 50 |
| Bulk density | kg/m ³ | 30 |
| Fire behaviour (EN 13501-1) |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

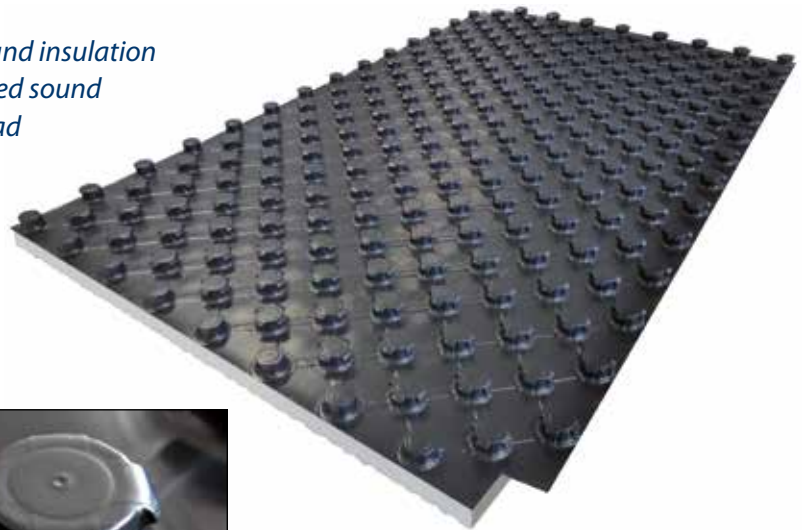
Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

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

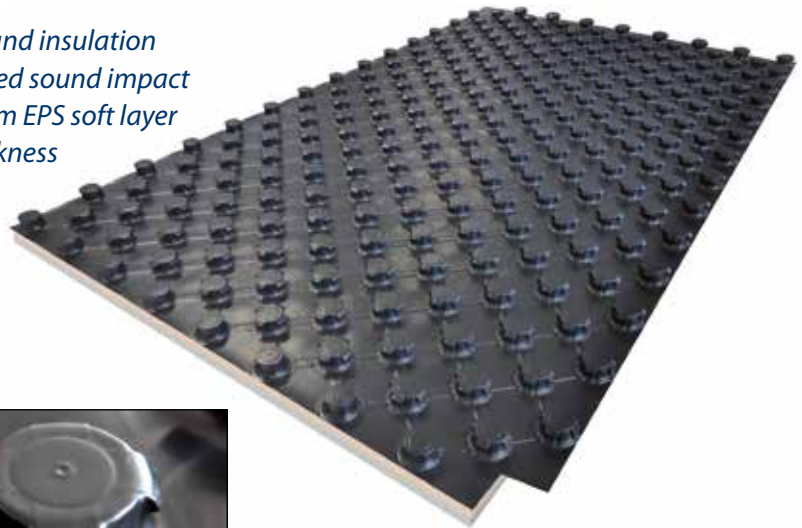
| | Unit | Value |
|---|-------------------|--------------|
| Thermal heat conductivity group λ_D | W/mK | 0,040 |
| Dynamic rigidity S' | MN/m ³ | 20 |
| Sound impact improvement | dB | 28 |
| Max. traffic load | kPa | 5 |
| Laying grid | mm | 50 |
| Bulk density | kg/m ³ | 15 |
| Fire behaviour (EN 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

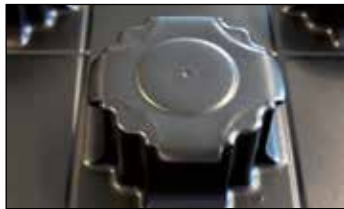
| | Unit | Value |
|---|-------------------|--------------|
| Thermal heat conductivity group λ_D | W/mK | 0,040 |
| Dynamic rigidity S' | MN/m ³ | 20 |
| Sound impact improvement | dB | 28 |
| Max. traffic load | kPa | 5 |
| Laying grid | mm | 50 |
| Bulk density | kg/m ³ | 30/12 |
| Fire behaviour (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
 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

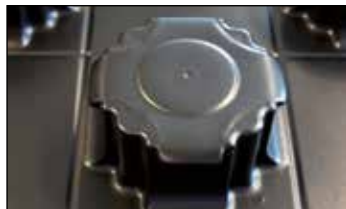
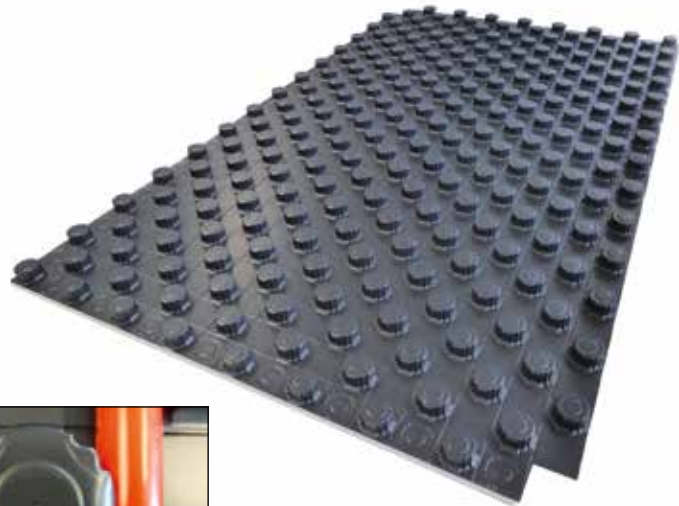
| | Unit | Value |
|--|----------------|--------|
| Max. traffic load | kPa | 5-75 |
| Laying grid | mm | 50 |
| Maximum load/Jumbo truck 26 pallets a` 130 pieces each | m ² | 3785,6 |
| Maximum load/Jumbo truck 260 carton a` 20 pieces each | m ² | 5824 |

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 |

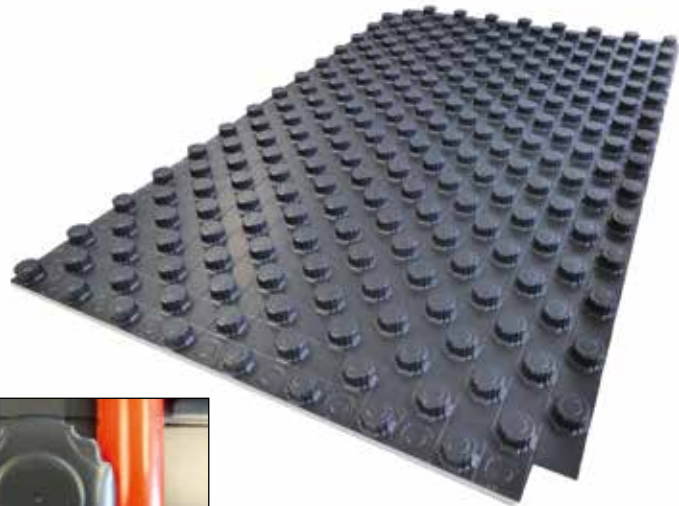
Technical data

| | 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 |

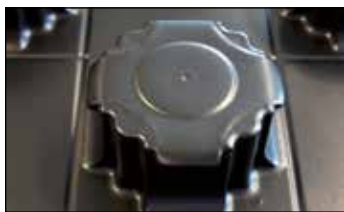
Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

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

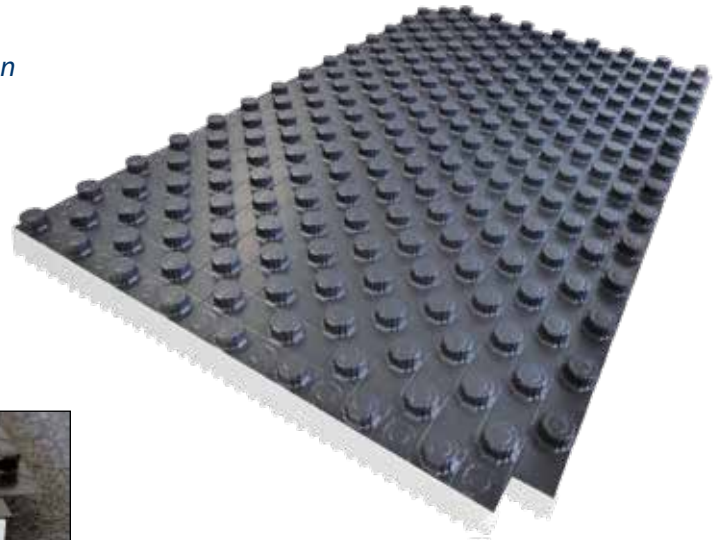
| | Unit | Value |
|---|-------------------|--------------|
| Thermal heat conductivity group λ_D | W/mK | 0,035 |
| Compressive stress at 10 % relative deformation | kPa | 200 |
| Max. traffic load | kPa | 75 |
| Laying grid | mm | 50 |
| Bulk density | kg/m ³ | 30 |
| Fire behaviour (EN 13501-1) |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

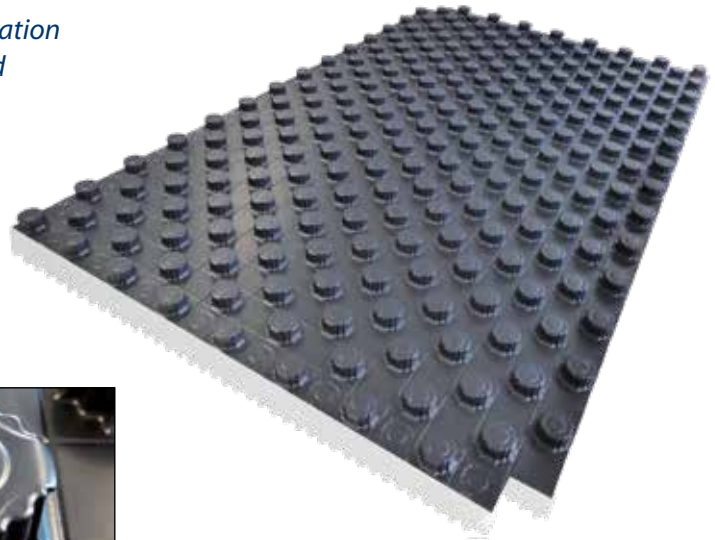
Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

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

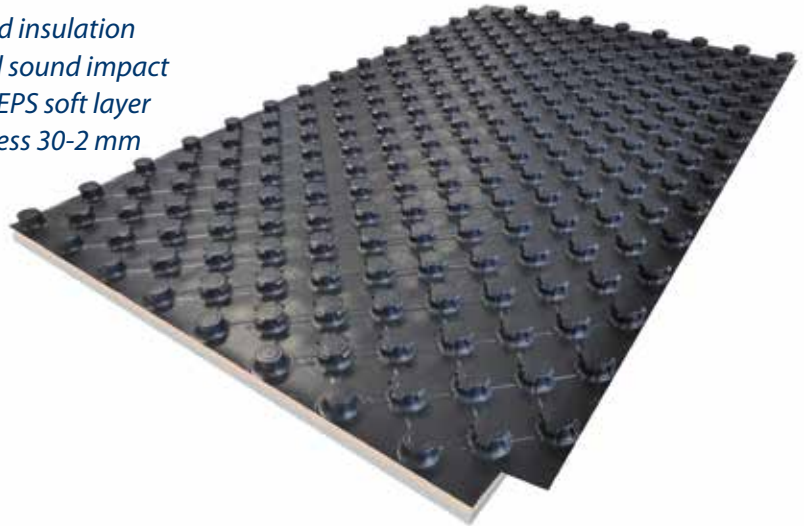
| | Unit | Value |
|---|-------------------|--------------|
| Thermal heat conductivity group λ_D | W/mK | 0,040 |
| Dynamic rigidity S' | MN/m ³ | 20 |
| Sound impact improvement | dB | 28 |
| Max. traffic load | kPa | 5 |
| Laying grid | mm | 50 |
| Bulk density | kg/m ³ | 15 |
| Fire behaviour (EN 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 Duro16-18 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 |

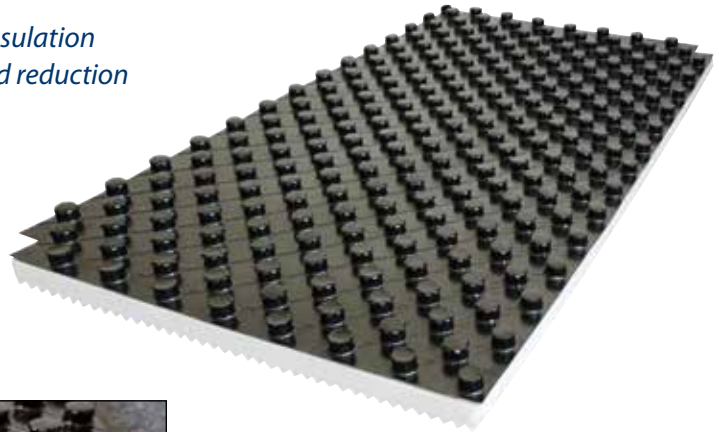
Technical data

| | 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 |

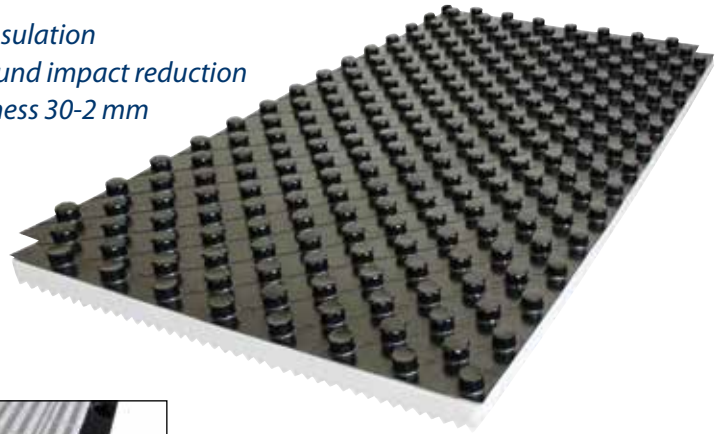
Maximum load per Jumbo truck: 26 pallets a` 10 cartons = 260 cartons

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

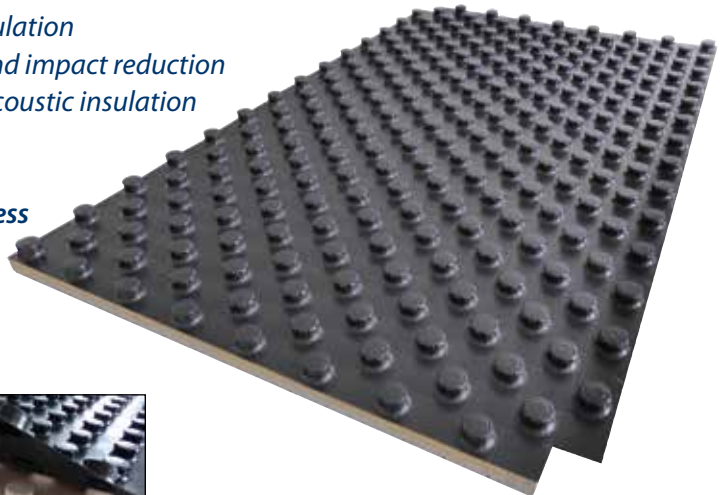
| | Unit | Value |
|---|-------------------|--------------|
| Thermal heat conductivity group λ_D | W/mK | 0,040 |
| Dynamic rigidity S` | MN/m ³ | 20 |
| Sound impact improvement | dB | 28 |
| Max. traffic load | kPa | 5 |
| Laying grid | mm | 50 |
| Bulk density | kg/m ³ | 15 |
| Fire behaviour (EN 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 |

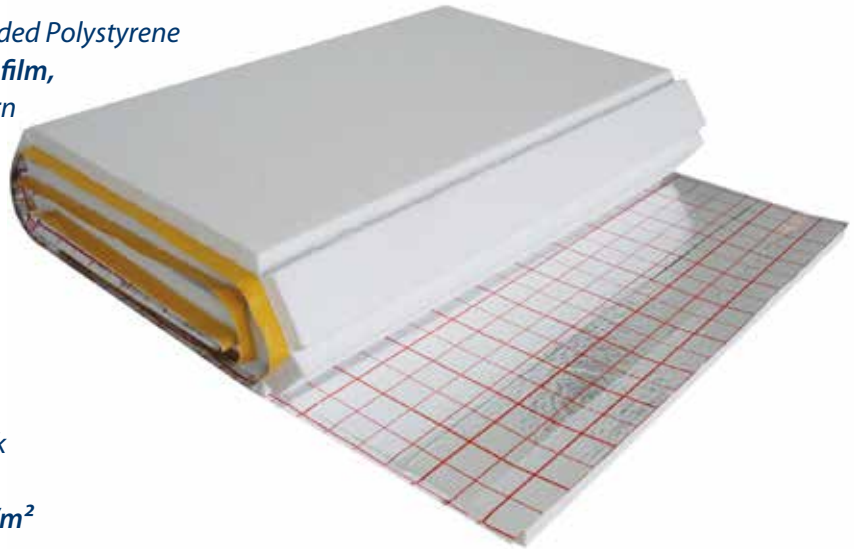
Technical data

| | 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 |

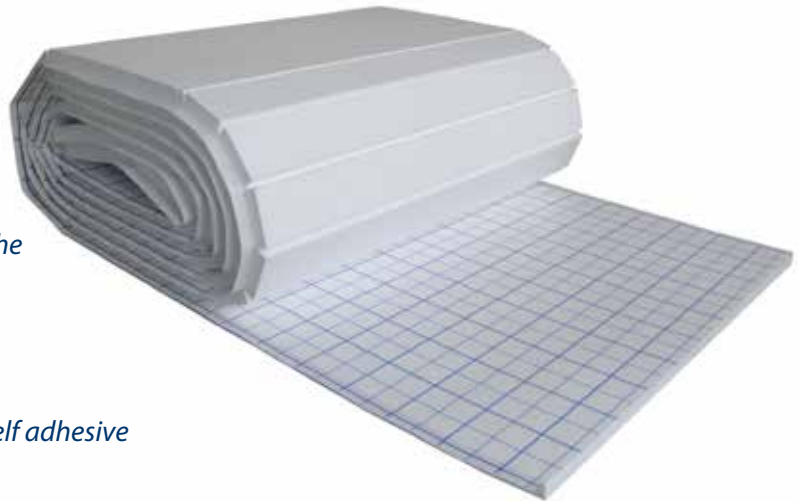
R= Thermal resistance S' = Dynamic rigidity VM = Improvement of sound impact

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 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

| 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 |

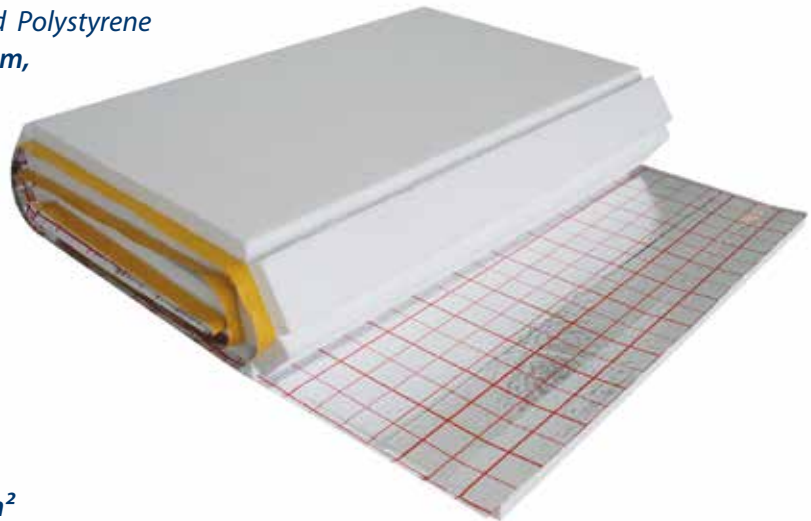
R= Thermal resistance S`= Dynamic rigidity VM = Improvement of sound impact

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

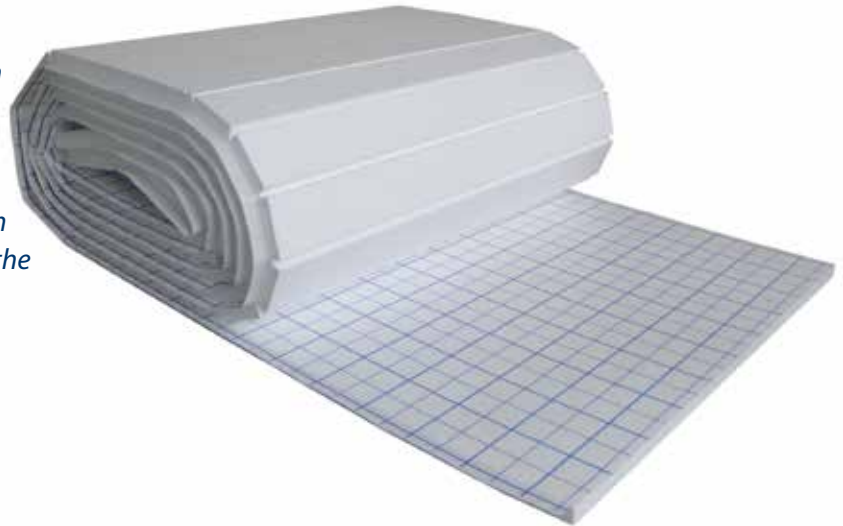
VM = Improvement of sound impact

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

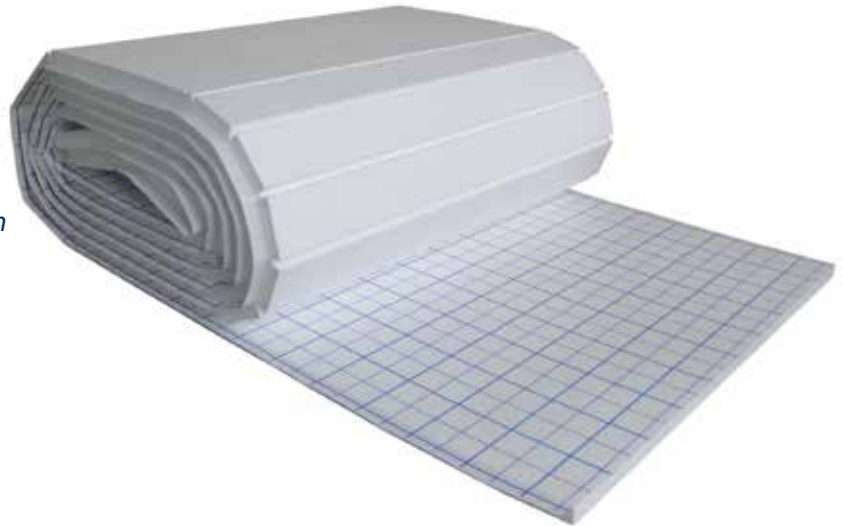
VM = Improvement of sound impact

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.

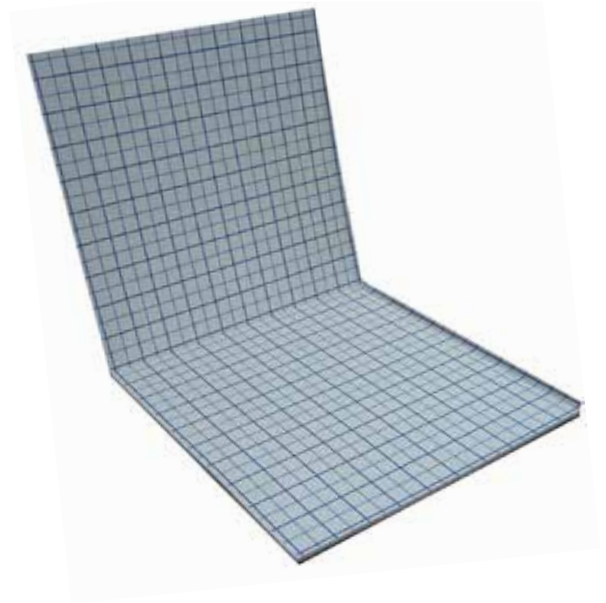
Panel format: 2000 x 1000 mm

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

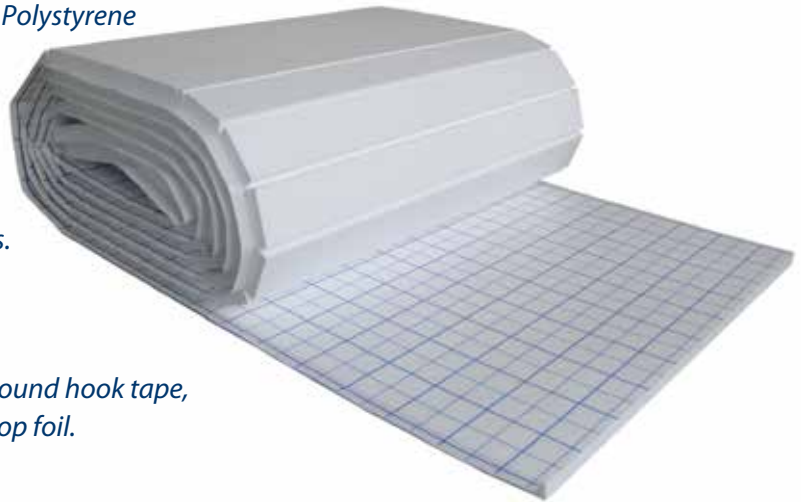
VM = Improvement of sound impact

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

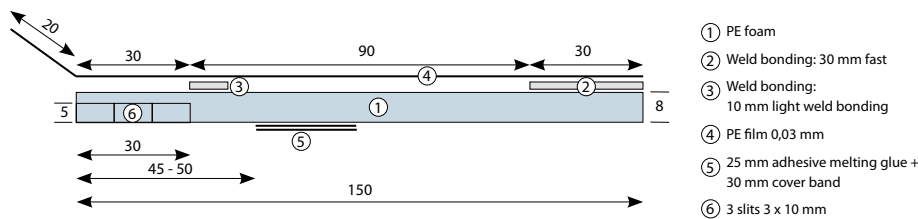
Technical data

| | 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 |

NEW**SYMPOR**
EPS Industries

SYMPOR SILVER REFLEX TBES 20-16 EPS 200 Drywall Construction Element

The Sympor Silver Reflex TBES 20-16 EPS 200 drywall construction element with a total height of 20 mm is ideal for retrofitting floor heating systems with minimal floor height. The TBES element consists of straight parts and deflection parts. The heat from the heating tube is distributed through a glued on aluminium coating. Tubes with a 16 mm diameter can be laid without any difficulty.

Sympor Silver Reflex TBES 20-16 plates are foam-moulded in EPS 200 quality and are quality controlled according to DIN EN 13163. The high gross density allows high traffic loads of 75 kN/m².

Plate format: 600 x 1600 mm



SYMPOR Silver Reflex TBES 30-16 EPS 200 Drywall Construction Element

| Article no. | Designation | Type | Packing unit box Pcs./box | Packing unit pallet Pcs./pal. |
|---------------|---|-------------------|----------------------------------|---------------------------------------|
| 001TBES-20-16 | Drywall construction element Silver Reflex | Sympor TBES 20-16 | 9 Pcs./box = 8,64 m ² | 126 Pcs./pal. = 120,96 m ² |

Technical data

| | Unit | Value |
|--|--------------------|----------|
| Plate measurements/usable dimension | mm | 600x1600 |
| Plate thickness | mm | 20 |
| Floor space | m ² | 0,96 |
| Load capacity | kN/m ² | 75 |
| Tube diameter | mm | 16 |
| Laying distance | mm | 150 |
| Heat conductivity declared value λ_D | W/mK | 0,031 |
| Heat transfer resistance R | m ² K/W | 0,95 |
| Maximum traffic load | kPa | 75 |
| Compressive strength at 10% strain | kPa | ≥ 200 |
| Reaction to fire | Euro class E | |

NEW

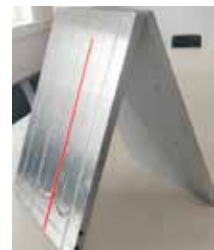
SYMPOR
EPS Industries

SYMPOR SILVER REFLEX TBES 30-16 EPS 200 Drywall Construction Element

The Sympor Silver Reflex TBES 30-16 EPS 200 drywall construction element with a total height of 30 mm is ideal for retrofitting floor heating systems with minimal floor height. The TBES element consists of straight parts and deflection parts. The heat from the heating tube is distributed through a glued on aluminium coating. Tubes with a 16 mm diameter can be laid without any difficulty.

Sympor Silver Reflex TBES 30-16 plates are foam-moulded in EPS 200 quality and are quality controlled according to DIN EN 13163. The high gross density allows high traffic loads of 75 kN/m².

Plate format: 600 x 1600 mm



SYMPOR Silver Reflex TBES 30-16 EPS 200 Drywall Construction Element

| Article no. | Designation | Type | Packing unit box Pcs./box | Packing unit pallet Pcs./pal. |
|---------------|---|-------------------|----------------------------------|-------------------------------------|
| 001TBES-30-16 | Drywall construction element Silver Reflex | Sympor TBES 30-16 | 6 Pcs./box = 5,76 m ² | 84 Pcs./pal. = 80,64 m ² |

Technical data

| | Unit | Value |
|--|--------------------|----------|
| Plate measurements/usable dimension | mm | 600x1600 |
| Plate thickness | mm | 30 |
| Floor space | m ² | 0,96 |
| Load capacity | kN/m ² | 75 |
| Tube diameter | mm | 16 |
| Laying distance | mm | 150 |
| Heat conductivity declared value λ_D | W/mK | 0,031 |
| Heat transfer resistance R | m ² K/W | 0,95 |
| Maximum traffic load | kPa | 75 |
| Compressive strength at 10% strain | kPa | ≥ 200 |
| Reaction to fire | Euro class E | |

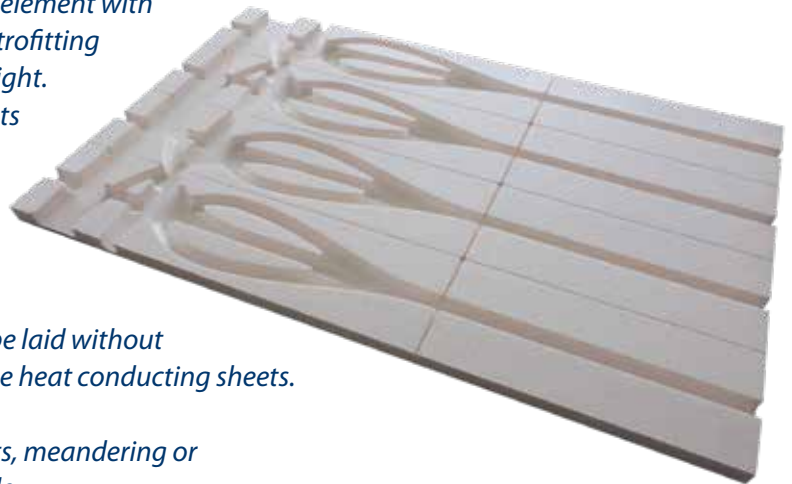
SYMPOR TBE 20-16 EPS 200 Drywall Construction Element

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 m ² |

Technical data

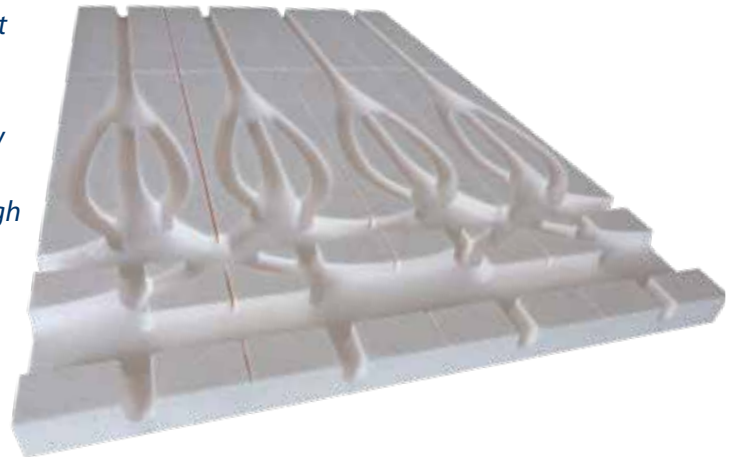
| | Unit | Value |
|--|--------------------|-------------|
| Plate measurements/usable dimension | mm | 800x500 |
| Plate thickness | mm | 20 |
| Floor space | m ² | 0,4 |
| Load capacity | kN/m ² | 5 |
| Tube diameter | mm | 16 |
| Laying distance | mm | 125 and 250 |
| Heat conductivity declared value λ_D | W/mK | 0,035 |
| Heat transfer resistance R | m ² K/W | 0,57 |
| 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.

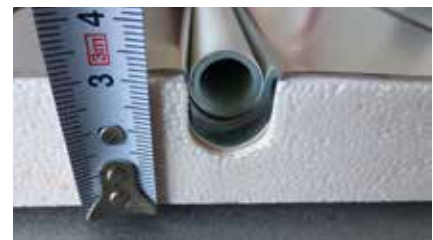
The heat from the heating tube is distributed through omega-shaped heat conducting sheets made of aluminium or galvanised sheet metal.

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 |

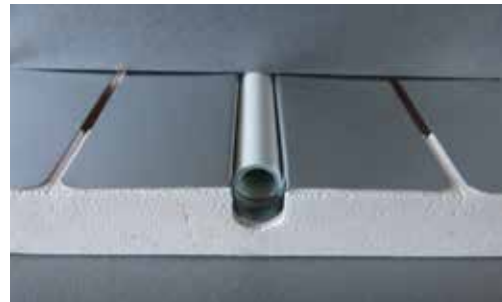
Technical data

| | 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.

Plate format: 1200 x 625 mm



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 | 0,75 | 18,75 | 187,50 | 0,85 |
| 634PUR-24-030 | 30 | 0,75 | 13,50 | 135,00 | 1,30 |
| 634PUR-24-040 | 40 | 0,75 | 9,75 | 97,50 | 1,70 |
| 634PUR-24-052 | 52 | 0,75 | 7,50 | 75,00 | 2,25 |
| 634PUR-24-060 | 60 | 0,75 | 6,75 | 67,50 | 2,60 |

Technical data

| | Unit | Value |
|---|------|---|
| Thermal heat conductivity group λD | W/mK | 0,023 |
| Compressive stress at 10 % relative deformation | kPa | $\leq 40 \text{ mm} \geq 150$ $> 40 \text{ mm} \geq 120$ |
| 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 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 |
| Usable format | mm | 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 |
| Insulation thickness | mm | | 10 | 30 | 40 | 50 | 10 | 20 | 30 | 40 | 50 |
| Total thickness | mm | 20 | 30 | 50 | 60 | 70 | 30 | 40 | 50 | 60 | 70 |
| Thermal heat conductivity group λ_b | W/mK | | 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 | 0,857 | 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 |
| Tube diameter | mm | 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 | 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 |
| Standard colour | | Black | Black | Black | Black | Black | Black | Black | Black | Black | Black |
| Max traffic load | kP | 5-75 | 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 |
| Packaging unit | Pieces/carton | 20 | 12 | 6 | 5 | 4 | 12 | 8 | 6 | 5 | 4 |
| Packaging unit | m ² /carton | 22,4 | 13,44 | 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 |
| Maximal load truck (carton) | m ² | 5.241,60 | 3.494,40 | 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 palletts 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 /KW | | 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 | 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 | 1450x850 | 1450x850 | 1450x850 | 1450x850 | 1450x850 | 1450x850 | 1450x850 | 1450x850 | 1450x850 | 1450x850 | 1450x850 |
| Usable format | 1400x800 | 1400x800 | 1400x800 | 1400x800 | 1400x800 | 1400x800 | 1400x800 | 1400x800 | 1400x800 | 1400x800 | 1400x800 |
| Usable surface | 1,12 | 1,12 | 1,12 | 1,12 | 1,12 | 1,12 | 1,12 | 1,12 | 1,12 | 1,12 | 1,12 |
| Insulation thickness | | 10 | 20 | 30 | 40 | 50 | 10 | 20 | 30 | 40 | 50 |
| Total thickness | 20 | 30 | 40 | 50 | 60 | 70 | 30 | 40 | 50 | 60 | 70 |
| Thermal heat conductivity group λ_D | | 0,035 | 0,035 | 0,035 | 0,035 | 0,035 | 0,040 | 0,040 | 0,040 | 0,040 | 0,040 |
| Thermal resistance | | 0,286 | 0,57 | 0,857 | 1,14 | 1,43 | 0,25 | 0,5 | 0,75 | 1,0 | 1,25 |
| Laying grid | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Tube diameter | 16-18 | 16-18 | 16-18 | 16-18 | 16-18 | 16-18 | 16-18 | 16-18 | 16-18 | 16-18 | 16-18 |
| Density | | 30 | 30 | 30 | 30 | 30 | 25 | 25 | 25 | 25 | 25 |
| PS foil thickness | 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 | 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 | 8 | 6 | 5 | 4 | 12 | 8 | 6 | 5 | 4 |
| Packaging unit | m ² /carton | 22,4 | 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 |
| Maximal load truck (carton) | m ² | 5.241,60 | 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 14-16 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 | 1400x850 | 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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