

**HIRSCH** Porozell



Product Range  
**Insulation**





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# EPS-F

Insulation board made of expanded polystyrene rigid foam

### Applications:

Exterior wall or continuous insulation for external thermal insulation composite systems (ETICS)

### Product type:

EPS-F white external wall insulation board complying with ÖNORM B 6000

### Board size:

500 x 1000 mm

### Thicknesses available:

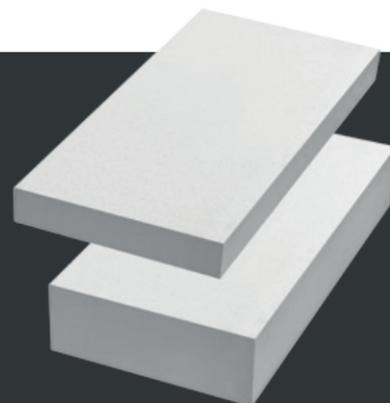
10 – 500 mm

### Color code:

Red

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.040 W/(m.K)
Tensile strength perpendicular to board face	$\geq 150$ kPa
Water vapor diffusion resistance $m_v$	MU 50
Reaction to fire in accordance with ÖNORM EN 13501-1	E



# EPS-F Plus

Insulation board made of expanded polystyrene rigid foam with improved insulation performance

### Applications:

Exterior wall or continuous insulation for external thermal insulation composite systems (ETICS)

### Product type:

EPS-F gray external wall insulation board complying with ÖNORM B 6000

### Board size:

500 x 1000 mm

### Thicknesses available:

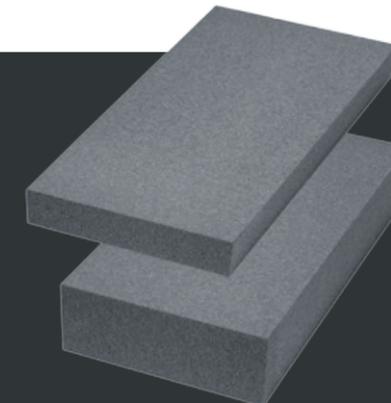
10 – 500 mm

### Color code:

Red

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.031 W/(m.K)
Tensile strength perpendicular to board face	$\geq 150$ kPa
Water vapor diffusion resistance $m_v$	MU 50
Reaction to fire in accordance with ÖNORM EN 13501-1	E



Storage: Protect against direct sunlight

Thickness (mm)	10	20	30	40	50	60	70
Art. No.	14300010	14300020	14300030	14300040	14300050	14300060	14300070
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)*	2.38	1.49	1.09	0.85	0.70	0.60	0.52
R-value (m <sup>2</sup> .K/W)	0.25	0.50	0.75	1.00	1.25	1.50	1.75

Thickness (mm)	80	90	100	120	140	160	180
Art. No.	14300080	14300090	14300100	14300120	14300140	14300160	14300180
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)*	0.46	0.41	0.37	0.32	0.27	0.24	0.21
R-value (m <sup>2</sup> .K/W)	2.00	2.25	2.50	3.00	3.50	4.00	4.50

Thickness (mm)	200	220	240	260	280	300	320
Art. No.	14300200	14300220	14300240	14300260	14300280	14300300	14300320
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)*	0.19	0.18	0.16	0.15	0.14	0.13	0.12
R-value (m <sup>2</sup> .K/W)	5.00	5.50	6.00	6.50	7.00	7.50	8.00

\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

Thickness (mm)	10	20	30	40	50	60	70
Art. No.	14900010	14900020	14900030	14900040	14900050	14900060	14900070
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)*	2.13	1.30	0.89	0.70	0.56	0.48	0.41
R-value (m <sup>2</sup> .K/W)	0.30	0.65	0.95	1.25	1.60	1.90	2.25

Thickness (mm)	80	90	100	120	140	160	180
Art. No.	14900080	14900090	14900100	14900120	14900140	14900160	14900180
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)*	0.37	0.33	0.30	0.25	0.21	0.19	0.17
R-value (m <sup>2</sup> .K/W)	2.55	2.90	3.20	3.85	4.50	5.15	5.80

Thickness (mm)	200	220	240	260	280	300	320
Art. No.	14900200	14900220	14900240	14900260	14900280	14900300	14900320
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)*	0.15	0.14	0.13	0.12	0.11	0.10	0.10
R-value (m <sup>2</sup> .K/W)	6.45	7.05	7.70	8.35	9.00	9.65	10.30

incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

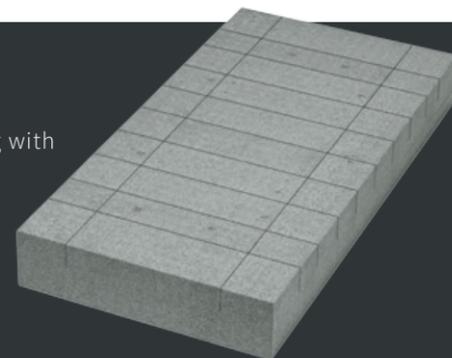


# EPS-F Elasto

Molded insulation board made of expanded polystyrene rigid foam with improved insulation performance and integrated surface slotting for effective stress relief

### Applications:

Exterior wall or continuous insulation for external thermal insulation composite systems (ETICS)



### Product type:

EPS-F silver external wall insulation board complying with ÖNORM B 6000

### Board size:

500 x 1000 mm

### Thicknesses available:

100 – 300 mm

### Color code:

Red

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.031 W/(m.K)
Tensile strength perpendicular to board face	$\geq 150$ kPa
Water vapor diffusion resistance $\mu$	MU 50
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Storage: Protect against direct sunlight

Thickness (mm)	100	120	140	160	180	200	220
Art. No.	18700100	18700120	18700140	18700160	18700180	18700200	18700220
m <sup>2</sup> /Pack	2.5	2.0	1.5	1.5	1.0	1.0	1.0
Qty/Pack	5	4	3	3	2	2	2
U-value (W/m <sup>2</sup> .K)*	0.30	0.25	0.21	0.19	0.17	0.15	0.14
R-value (m <sup>2</sup> .K/W)	3.20	3.85	4.50	5.15	5.80	6.45	7.10

Thickness (mm)	240	260	280	300
Art. No.	18700240	18700260	18700280	18700300
m <sup>2</sup> /Pack	1.0	0.5	0.5	0.5
Qty/Pack	2	1	1	1
U-value (W/m <sup>2</sup> .K)*	0.13	0.12	0.11	0.10
R-value (m <sup>2</sup> .K/W)	7.70	8.35	9.00	9.65

incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

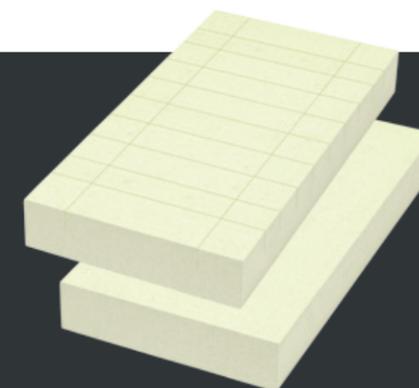


# EPS-P

Molded foundation insulation board made of expanded polystyrene rigid foam with integrated surface slotting on thicknesses over 10 cm for effective stress relief and improved render adherence due to rough finish

### Applications

Foundation (continuous insulation) for external thermal insulation composite system (ETICS), under heavy duty floors, wet rooms



### Product type:

EPS-P yellow foundation/perimeter insulation board complying with ÖNORM B 6000

### Board size:

500 x 1000 mm

### Thicknesses available:

20 – 300 mm

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.035 W/(m.K)
Compressive stress at 10% deformation	$\geq 200$ kPa
Water absorption after long-term immersion for 28 days	$\leq 2$ %
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Thickness (mm)	20	40	60	80	100*	120*	140*
Art. No.	18800020	18800040	18800060	18800080	18800100	18800120	18800140
m <sup>2</sup> /Pack	12.5	6.0	4.0	3.0	2.5	2.0	1.5
Qty/Pack	25	12	8	6	5	4	3
U-value (W/m <sup>2</sup> .K)**	1.39	0.79	0.53	0.41	0.33	0.28	0.24
R-value (m <sup>2</sup> .K/W)	0.55	1.10	1.70	2.25	2.85	3.40	4.00

Thickness (mm)	160*	180*	200*	220*	240*	260*	280*
Art. No.	18800160	18800180	18800200	18800220	18800240	18800260	18800280
m <sup>2</sup> /Pack	1.5	1.0	1.0	1.0	1.0	0.5	0.5
Qty/Pack	3	2	2	2	2	1	1
U-value (W/m <sup>2</sup> .K)**	0.21	0.19	0.17	0.16	0.14	0.13	0.12
R-value (m <sup>2</sup> .K/W)	4.55	5.10	5.70	6.25	6.85	7.40	8.00

Thickness (mm)	300*
Art. No.	18800300
m <sup>2</sup> /Pack	0.5
Qty/Pack	1
U-value (W/m <sup>2</sup> .K)**	0.11
R-value (m <sup>2</sup> .K/W)	8.55

\* with integrated surface slotting

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

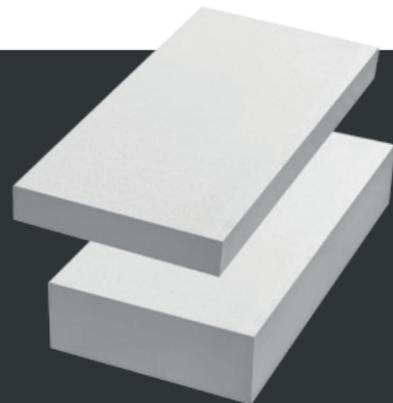


# EPS-W 15

Universal insulation board made of expanded polystyrene rigid foam for uses not subject to special loads

### Applications:

Core insulation, insulation between rafters, interior insulation, attic conversions



### Product type:

EPS-W 15 white complying with ÖNORM B 6000

### Board sizes:

500 x 1000 mm / 1000 x 1000 mm

### Thicknesses available:

10 – 500 mm

### Color code:

Blue

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.042 W/(m.K)
Compressive stress at 10% deformation	$\geq 60$ kPa
Water vapor diffusion resistance $\mu$	20 – 50 $\mu$
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Thickness (mm)	10	20	30	40	50	60	70
Art. No.*	14500010	14500020	14500030	14500040	14500050	14500060	14500070
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)**	2.70	1.61	1.15	0.89	0.76	0.64	0.55
R-value (m <sup>2</sup> .K/W)	0.20	0.45	0.70	0.95	1.15	1.40	1.65

Thickness (mm)	80	90	100	120	140	160	180
Art. No.*	14500080	14500090	14500100	14500120	14500140	14500160	14500180
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)**	0.48	0.44	0.40	0.33	0.29	0.25	0.23
R-value (m <sup>2</sup> .K/W)	1.90	2.10	2.35	2.85	3.30	3.80	4.25

Thickness (mm)	200	220	240	260	280	300	320
Art. No.*	14500200	14500220	14500240	14500260	14500280	14500300	14500320
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)**	0.20	0.19	0.17	0.16	0.15	0.14	0.13
R-value (m <sup>2</sup> .K/W)	4.75	5.20	5.70	6.15	6.65	7.10	7.60

\* Board size: 500 x 1000 mm

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

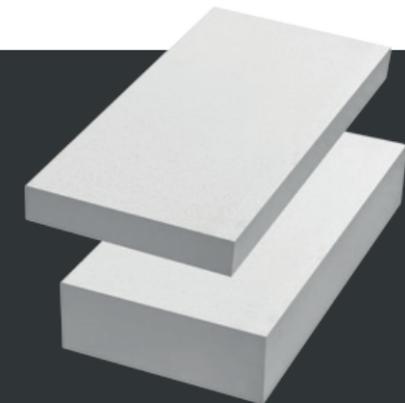


# EPS-W 20

Insulation board made of expanded polystyrene rigid foam resistant to compression

### Applications:

Under screed, on flat and pitched roofs, under underfloor heating, cold storage rooms, tar and gravel roofs, attic conversions



### Product type:

EPS-W 20 white complying with ÖNORM B 6000

### Board sizes:

500 x 1000 mm / 1000 x 1000 mm

### Thicknesses available:

10 – 500 mm

### Color code:

Yellow

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.038 W/(m.K)
Compressive stress at 10% deformation	$\geq 100$ kPa
Water vapor diffusion resistance $\mu$	30 – 70 $\mu$
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Thickness (mm)	10	20	30	40	50	60	70
Art. No.*	14600010	14600020	14600030	14600040	14600050	14600060	14600070
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)**	2.38	1.49	1.09	0.82	0.68	0.58	0.51
R-value (m <sup>2</sup> .K/W)	0.25	0.50	0.75	1.05	1.30	1.55	1.80

Thickness (mm)	80	90	100	120	140	160	180
Art. No.*	14600080	14600090	14600100	14600120	14600140	14600160	14600180
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)**	0.44	0.40	0.36	0.30	0.26	0.23	0.21
R-value (m <sup>2</sup> .K/W)	2.10	2.35	2.60	3.15	3.65	4.20	4.70

Thickness (mm)	200	220	240	260	280	300	320
Art. No.*	14600200	14600220	14600240	14600260	14600280	14600300	14600320
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)**	0.18	0.17	0.15	0.14	0.13	0.12	0.12
R-value (m <sup>2</sup> .K/W)	5.25	5.75	6.30	6.80	7.35	7.85	8.40

\* Board size: 500 x 1000 mm

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

# EPS-W 25



Insulation board made of expanded polystyrene rigid foam resistant to compression for high demands

### Applications:

Under screed, on flat and pitched roofs, under underfloor heating, cold storage rooms, tar and gravel roofs, attic conversions, plant floors, garages

### Product type:

EPS-W 25 white complying with ÖNORM B 6000

### Board sizes:

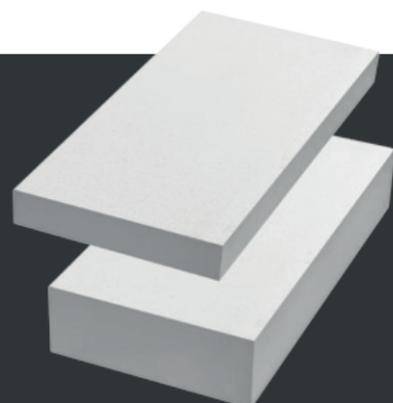
500 x 1000 mm / 1000 x 1000 mm

### Thicknesses available:

10 – 500 mm

### Color code:

1 x black



### Technical Data

Thermal conductivity – rated $\lambda_D$	0.036 W/(m.K)
Compressive stress at 10% deformation	$\geq 120$ kPa
Water vapor diffusion resistance $m_v$	35 – 80 $\mu$
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Thickness (mm)	10	20	30	40	50	60	70
Art. No.*	14700010	14700020	14700030	14700040	14700050	14700060	14700070
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)**	2.38	1.39	1.03	0.79	0.66	0.55	0.48
R-value (m <sup>2</sup> .K/W)	0.25	0.55	0.80	1.10	1.35	1.65	1.90

Thickness (mm)	80	90	100	120	140	160	180
Art. No.*	14700080	14700090	14700100	14700120	14700140	14700160	14700180
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)**	0.42	0.37	0.34	0.29	0.25	0.22	0.19
R-value (m <sup>2</sup> .K/W)	2.20	2.50	2.75	3.30	3.85	4.40	5.00

Thickness (mm)	200	220	240	260	280	300	320
Art. No.*	14700200	14700220	14700240	14700260	14700280	14700300	14700320
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)**	0.17	0.16	0.15	0.14	0.13	0.12	0.11
R-value (m <sup>2</sup> .K/W)	5.55	6.10	6.65	7.20	7.75	8.30	8.85

\* Board size: 500 x 1000 mm

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

# EPS-W 30



Insulation board made of expanded polystyrene rigid foam resistant to compression for extreme demands

### Applications:

Under screed, on flat and pitched roofs, under underfloor heating, cold storage rooms, tar and gravel roofs, attic conversions, plant floors, garages

### Product type:

EPS-W 30 white complying with ÖNORM B 6000

### Board sizes:

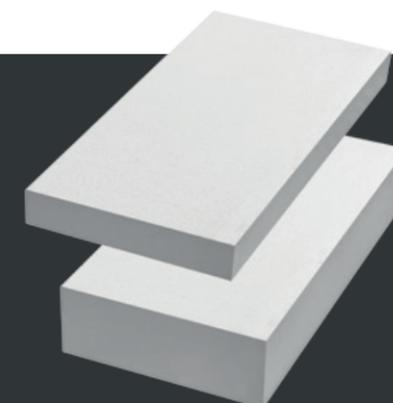
500 x 1000 mm / 1000 x 1000 mm

### Thicknesses available:

10 – 500 mm

### Color code:

2 x black



### Technical Data

Thermal conductivity – rated $\lambda_D$	0.035 W/(m.K)
Compressive stress at 10% deformation	$\geq 150$ kPa
Water vapor diffusion resistance $m_v$	40 – 100 $\mu$
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Thickness (mm)	10	20	30	40	50	60	70
Art. No.*	14800010	14800020	14800030	14800040	14800050	14800060	14800070
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)**	2.38	1.39	0.98	0.79	0.64	0.53	0.46
R-value (m <sup>2</sup> .K/W)	0.25	0.55	0.85	1.10	1.40	1.70	2.00

Thickness (mm)	80	90	100	120	140	160	180
Art. No.*	14800080	14800090	14800100	14800120	14800140	14800160	14800180
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)**	0.41	0.37	0.33	0.28	0.24	0.21	0.19
R-value (m <sup>2</sup> .K/W)	2.25	2.55	2.85	3.40	4.00	4.55	5.10

Thickness (mm)	200	220	240	260	280	300	320
Art. No.*	14800200	14800220	14800240	14800260	14800280	14800300	14800320
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)**	0.17	0.16	0.14	0.13	0.12	0.11	0.11
R-value (m <sup>2</sup> .K/W)	5.70	6.25	6.85	7.40	8.00	8.55	9.10

\* Board size: 500 x 1000 mm

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

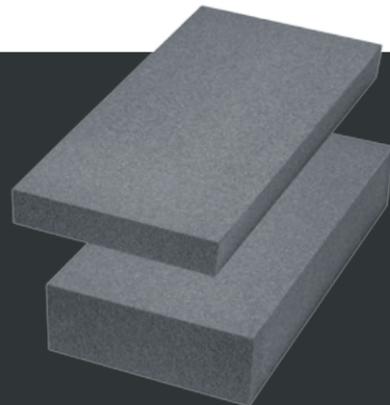


# EPS-W 20 Plus

Insulation board made of expanded polystyrene rigid foam resistant to compression with improved insulation performance

### Applications:

Under screed, on flat and pitched roofs, under underfloor heating, cold storage rooms, tar and gravel roofs, attic conversions



### Product type:

EPS-W 20 gray complying with ÖNORM B 6000

### Board sizes:

500 x 1000 mm / 1000 x 1000 mm

### Thicknesses available:

10 – 500 mm

### Color code:

Yellow

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.031 W/(m.K)
Compressive stress at 10% deformation	$\geq 100$ kPa
Water vapor diffusion resistance $\mu$	30 – 70 $\mu$
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Storage: Protect against direct sunlight

Thickness (mm)	10	20	30	40	50	60	70
Art. No.*	14600010G	14600020G	14600030G	14600040G	14600050G	14600060G	14600070G
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)**	2.13	1.30	0.89	0.70	0.56	0.48	0.41
R-value (m <sup>2</sup> .K/W)	0.30	0.60	0.95	1.25	1.60	1.90	2.25

Thickness (mm)	80	90	100	120	140	160	180
Art. No.*	14600080G	14600090G	14600100G	14600120G	14600140G	14600160G	14600180G
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)**	0.37	0.33	0.30	0.25	0.21	0.19	0.17
R-value (m <sup>2</sup> .K/W)	2.55	2.90	3.20	3.85	4.50	5.15	5.80

Thickness (mm)	200	220	240	260	280	300	320
Art. No.*	14600200G	14600220G	14600240G	14600260G	14600280G	14600300G	14600320G
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)**	0.15	0.14	0.13	0.12	0.11	0.10	0.10
R-value (m <sup>2</sup> .K/W)	6.45	7.05	7.70	8.35	9.00	9.65	10.30

\* Board size: 500 x 1000 mm

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

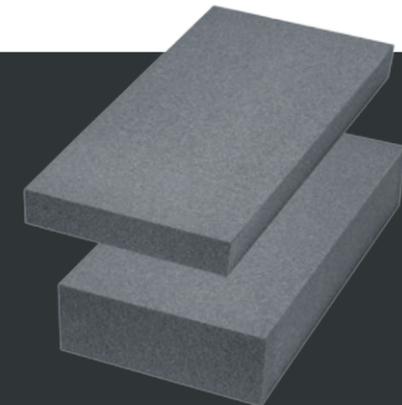


# EPS-W 25 Plus

Insulation board made of expanded polystyrene rigid foam resistant to compression with improved insulation performance for high demands

### Applications:

Under screed, on flat and pitched roofs, under underfloor heating, cold storage rooms, tar and gravel roofs, attic conversions, plant floors, garages



### Product type:

EPS-W 25 gray complying with ÖNORM B 6000

### Board sizes:

500 x 1000 mm / 1000 x 1000 mm

### Thicknesses available:

10 – 500 mm

### Color code:

1 x black

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.031 W/(m.K)
Compressive stress at 10% deformation	$\geq 120$ kPa
Water vapor diffusion resistance $\mu$	35 – 80 $\mu$
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Storage: Protect against direct sunlight

Thickness (mm)	10	20	30	40	50	60	70
Art. No.*	14700010G	14700020G	14700030G	14700040G	14700050G	14700060G	14700070G
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)**	2.13	1.30	0.89	0.70	0.56	0.48	0.41
R-value (m <sup>2</sup> .K/W)	0.30	0.60	0.95	1.25	1.60	1.90	2.25

Thickness (mm)	80	90	100	120	140	160	180
Art. No.*	14700080G	14700090G	14700100G	14700120G	14700140G	14700160G	14700180G
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)**	0.37	0.33	0.30	0.25	0.21	0.19	0.17
R-value (m <sup>2</sup> .K/W)	2.55	2.90	3.20	3.85	4.50	5.15	5.80

Thickness (mm)	200	220	240	260	280	300	320
Art. No.*	14700200G	14700220G	14700240G	14700260G	14700280G	14700300G	14700320G
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)**	0.15	0.14	0.13	0.12	0.11	0.10	0.10
R-value (m <sup>2</sup> .K/W)	6.45	7.05	7.70	8.35	9.00	9.65	10.30

\* Board size: 500 x 1000 mm

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

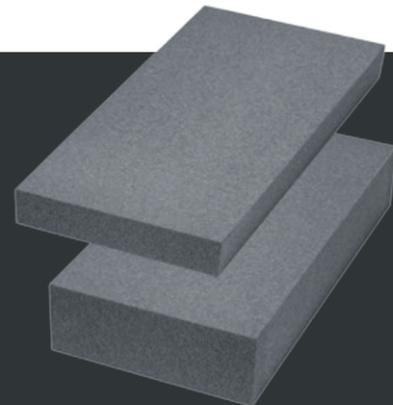


# EPS-W 30 Plus

Insulation board made of expanded polystyrene rigid foam resistant to compression for extreme demands with excellent insulation performance

### Applications:

Under screed, on flat and pitched roofs, under underfloor heating, cold storage rooms, tar and gravel roofs, attic conversions, plant floors, garages



### Product type:

EPS-W 30 gray complying with ÖNORM B 6000

### Board sizes:

500 x 1000 mm / 1000 x 1000 mm

### Thicknesses available:

10 – 500 mm

### Color code:

2x black

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.030 W/(m.K)
Compressive stress at 10% deformation	$\geq 150$ kPa
Water vapor diffusion resistance $\mu$	40 – 100 $\mu$
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Storage: Protect against direct sunlight

Thickness (mm)	10	20	30	40	50	60	70
Art. No.*	14800010G	14800020G	14800030G	14800040G	14800050G	14800060G	14800070G
m <sup>2</sup> /Pack	25.0	12.5	8.0	6.0	5.0	4.0	3.5
Qty/Pack	50	25	16	12	10	8	7
U-value (W/m <sup>2</sup> .K)**	2.13	1.22	0.85	0.68	0.55	0.46	0.40
R-value (m <sup>2</sup> .K/W)	0.30	0.65	1.00	1.30	1.65	2.00	2.30

Thickness (mm)	80	90	100	120	140	160	180
Art. No.*	14800080G	14800090G	14800100G	14800120G	14800140G	14800160G	14800180G
m <sup>2</sup> /Pack	3.0	2.5	2.5	2.0	1.5	1.5	1.0
Qty/Pack	6	5	5	4	3	3	2
U-value (W/m <sup>2</sup> .K)**	0.35	0.32	0.29	0.24	0.21	0.18	0.16
R-value (m <sup>2</sup> .K/W)	2.65	3.00	3.30	4.00	4.65	5.30	6.00

Thickness (mm)	200	220	240	260	280	300	320
Art. No.*	14800200G	14800220G	14800240G	14800260G	14800280G	14800300G	14800320G
m <sup>2</sup> /Pack	1.0	1.0	1.0	0.5	0.5	0.5	0.5
Qty/Pack	2	2	2	1	1	1	1
U-value (W/m <sup>2</sup> .K)**	0.15	0.13	0.12	0.11	0.11	0.10	0.09
R-value (m <sup>2</sup> .K/W)	6.65	7.30	8.00	8.65	9.30	10.00	10.65

\* Board size: 500 x 1000 mm

\*\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m<sup>2</sup>.K/W)

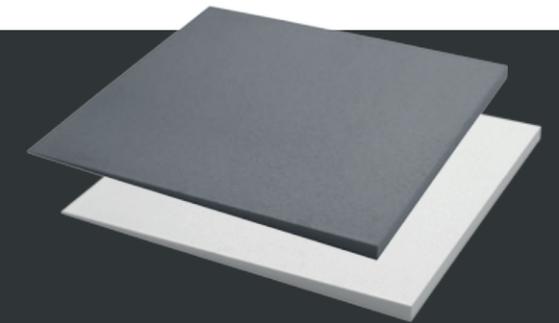


# EPS Tapered Insulation Boards

Insulation board made of expanded polystyrene rigid foam resistant to compression with a gradient of 2% in accordance with ÖNORM

### Applications:

New builds and renovations with flat, non-sloping supporting structures, roofs allowing vehicle and foot traffic, green roofs



### Product types:

EPS-W 20 | W 20 Plus to ÖNORM B 6000

EPS-W 25 | W 25 Plus to ÖNORM B 6000

EPS-W 30 | W 30 Plus to ÖNORM B 6000

### Board size:

1000 x 1000 mm

### Thicknesses available:

20 – 120 mm

### Technical Data

	W 20	W 25	W 30	W 20 Plus	W 25 Plus	W 30 Plus
Thermal conductivity – rated $\lambda_D$ (W/(m.K))	0.038	0.036	0.035	0.031	0.031	0.030
Compressive stress at 10% deformation (kPa)	$\geq 100$	$\geq 120$	$\geq 150$	$\geq 100$	$\geq 120$	$\geq 150$
Reaction to fire in accordance with ÖNORM EN 13501-1: E						

Storage: Protect against direct sunlight

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20	W 25	W 30	m <sup>2</sup> /Pack	Qty/Pack
20 – 40	14202020G40	14202520G40	14203020G40	16.0	16
40 – 60	14202040G60	14202540G60	14203040G60	8.0	8
60 – 80	14202060G80	14202560G80	14203060G80	6.0	6
80 – 100	14202080G100	14202580G100	14203080G100	4.0	4
100 – 120	142020100G120	142025100G120	142030100G120	4.0	4

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20 Plus	W 25 Plus	W 30 Plus	m <sup>2</sup> /Pack	Qty/Pack
20 – 40	14202020G40G	14202520G40G	14203020G40G	16.0	16
40 – 60	14202040G60G	14202540G60G	14203040G60G	8.0	8
60 – 80	14202060G80G	14202560G80G	14203060G80G	6.0	6
80 – 100	14202080G100G	14202580G100G	14203080G100G	4.0	4
100 – 120	142020100G120G	142025100G120G	142030100G120G	4.0	4

\* Other thicknesses on request

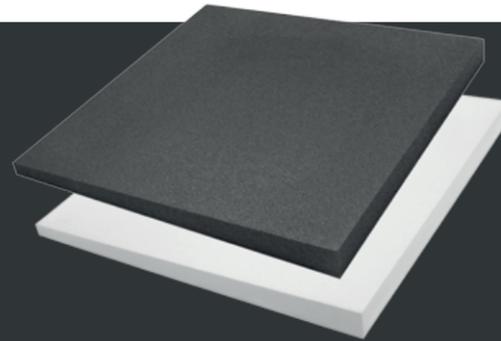
# EPS Counter Slope Insulation Boards



Insulation board made of expanded polystyrene rigid foam resistant to compression with a gradient of 4% in accordance with ÖNORM

### Applications:

New builds and renovations with flat, non-sloping supporting structures, roofs allowing vehicle and foot traffic, green roofs



### Product types:

EPS-W 20 | W 20 Plus to ÖNORM B 6000  
 EPS-W 25 | W 25 Plus to ÖNORM B 6000  
 EPS-W 30 | W 30 Plus to ÖNORM B 6000

### Board size:

1000 x 1000 mm

### Thicknesses available:

5 – 165 mm

Technical Data	W 20	W 25	W 30	W 20 Plus	W 25 Plus	W 30 Plus
Thermal conductivity – rated $\lambda_D$ (W/(m.K))	0.038	0.036	0.035	0.031	0.031	0.030
Compressive stress at 10% deformation (kPa)	≥ 100	≥ 120	≥ 150	≥ 100	≥ 120	≥ 150
Reaction to fire in accordance with ÖNORM EN 13501-1: E						

Storage: Protect against direct sunlight

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20	W 25	W 30	m <sup>2</sup> /Pack	Qty/Pack
5 – 45	14202005G45	14202505G45	14203005G45	16.0	16
45 – 85	14202045G85	14202545G85	14203045G85	6.0	6
85 – 125	14202085G125	14202585G125	14203085G125	4.0	4
125 – 165	142020125G165	142025125G165	142030125G165	2.0	2

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20 Plus	W 25 Plus	W 30 Plus	m <sup>2</sup> /Pack	Qty/Pack
5 – 45	14202005G45G	14202505G45G	14203005G45G	16.0	16
45 – 85	14202045G85G	14202545G85G	14203045G85G	6.0	6
85 – 125	14202085G125G	14202585G125G	14203085G125G	4.0	4
125 – 165	142020125G165G	142025125G165G	142030125G165G	2.0	2

\* Other thicknesses on request

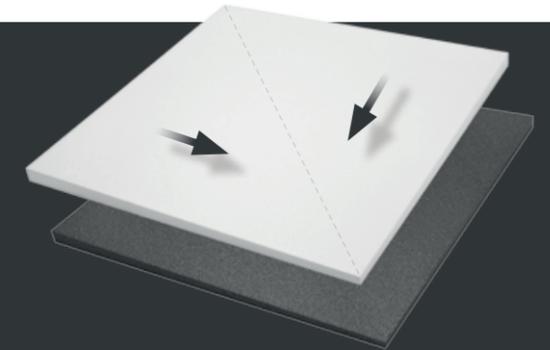
# EPS Valley Boards



Insulation board made of expanded polystyrene rigid foam resistant to compression for draining flat roofs

### Applications:

New builds and renovations with flat, non-sloping supporting structures, roofs allowing vehicle and foot traffic, green roofs



### Product types:

EPS-W 20 | W 20 Plus to ÖNORM B 6000  
 EPS-W 25 | W 25 Plus to ÖNORM B 6000  
 EPS-W 30 | W 30 Plus to ÖNORM B 6000

### Board size:

1000 x 1000 mm

### Thicknesses available:

20 – 120 mm

Technical Data	W 20	W 25	W 30	W 20 Plus	W 25 Plus	W 30 Plus
Thermal conductivity – rated $\lambda_D$ (W/(m.K))	0.038	0.036	0.035	0.031	0.031	0.030
Compressive stress at 10% deformation (kPa)	≥ 100	≥ 120	≥ 150	≥ 100	≥ 120	≥ 150
Reaction to fire in accordance with ÖNORM EN 13501-1: E						

Storage: Protect against direct sunlight

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20	W 25	W 30	m <sup>2</sup> /Pack	Qty/Pack
20 – 40	14202020KP40	14202520KP40	14203020KP40	4.0	4
40 – 60	14202040KP60	14202540KP60	14203040KP60	4.0	4
60 – 80	14202060KP80	14202560KP80	14203060KP80	4.0	4
80 – 100	14202080KP100	14202580KP100	14203080KP100	4.0	4
100 – 120	142020100KP120	142025100KP120	142030100KP120	4.0	4

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20 Plus	W 25 Plus	W 30 Plus	m <sup>2</sup> /Pack	Qty/Pack
20 – 40	14202020KP40G	14202520KP40G	14203020KP40G	4.0	4
40 – 60	14202040KP60G	14202540KP60G	14203040KP60G	4.0	4
60 – 80	14202060KP80G	14202560KP80G	14203060KP80G	4.0	4
80 – 100	14202080KP100G	14202580KP100G	14203080KP100G	4.0	4
100 – 120	142020100KP120G	142025100KP120G	142030100KP120G	4.0	4

\* Other thicknesses on request

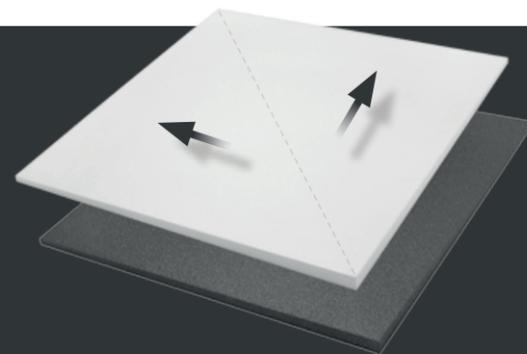


# EPS Hip Boards

Insulation board made of expanded polystyrene rigid foam resistant to compression for draining flat roofs

### Applications:

New builds and renovations with flat, non-sloping supporting structures, roofs allowing vehicle and foot traffic, green roofs



### Product types:

EPS-W 20 | W 20 Plus to ÖNORM B 6000

EPS-W 25 | W 25 Plus to ÖNORM B 6000

EPS-W 30 | W 30 Plus to ÖNORM B 6000

### Board size:

1000 x 1000 mm

### Thicknesses available:

20 – 120 mm

Technical Data	W 20	W 25	W 30	W 20 Plus	W 25 Plus	W 30 Plus
Thermal conductivity – rated $\lambda_D$ (W/(m.K))	0.038	0.036	0.035	0.031	0.031	0.030
Compressive stress at 10% deformation (kPa)	≥ 100	≥ 120	≥ 150	≥ 100	≥ 120	≥ 150
Reaction to fire in accordance with ÖNORM EN 13501-1: E						

Storage: Protect against direct sunlight

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20	W 25	W 30	m <sup>2</sup> /Pack	Qty/Pack
20 – 40	14202020GP40	14202520GP40	14203020GP40	4.0	4
40 – 60	14202040GP60	14202540GP60	14203040GP60	4.0	4
60 – 80	14202060GP80	14202560GP80	14203060GP80	4.0	4
80 – 100	14202080GP100	14202580GP100	14203080GP100	4.0	4
100 – 120	142020100GP120	142025100GP120	142030100GP120	4.0	4

Thickness (mm)*	Article Numbers			Packaging Unit	
	W 20 Plus	W 25 Plus	W 30 Plus	m <sup>2</sup> /Pack	Qty/Pack
20 – 40	14202020GP40G	14202520GP40G	14203020GP40G	4.0	4
40 – 60	14202040GP60G	14202540GP60G	14203040GP60G	4.0	4
60 – 80	14202060GP80G	14202560GP80G	14203060GP80G	4.0	4
80 – 100	14202080GP100G	14202580GP100G	14203080GP100G	4.0	4
100 – 120	142020100GP120G	142025100GP120G	142030100GP120G	4.0	4

\* Other thicknesses on request

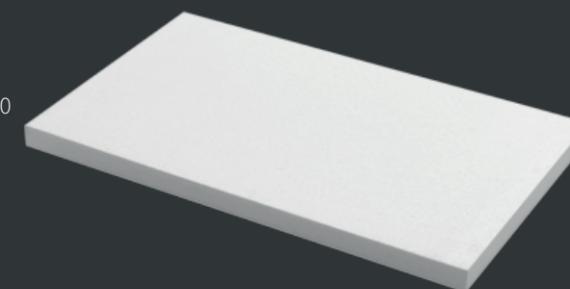


# EPS-T 650

Impact sound insulation board with improved soundproofing for a total load of up to 650 kg/m<sup>2</sup>

### Applications:

Floor insulation with soundproofing, under floating screed, under underfloor heating systems



### Product type:

EPS-T 650 complying with ÖNORM B 6000

### Board size:

500 x 1000 mm

### Thicknesses available:

20 – 50 mm

### Color code:

2 x green

### Technical Data

Thermal conductivity – rated $\lambda_D$	0.044 W/(m.K)
Reaction to fire in accordance with ÖNORM EN 13501-1	E

Thickness (mm)	Dynamic stiffness (MN/m <sup>3</sup> )	Impact sound level reduction (dB)*	
		With 5 cm Screed	With 6 cm Screed
23/20	≤30	27	28
28/25	≤30	27	28
33/30	≤20	29	30
43/40	≤20	29	30
53/50	≤15	31	32

Thickness (mm)	m <sup>2</sup> /Pack	Qty/Pack	U-value (W/m <sup>2</sup> .K)	R-value (m <sup>2</sup> .K/W)
23/20	10.5	21	2.20	0.45
28/25	8.5	17	1.76	0.55
33/30	7.5	15	1.47	0.65
43/40	5.5	11	1.10	0.90
53/50	4.5	9	0.88	1.10

\* Floor structure: Hardwood, barrier, screed, EPS-T 650, 4 cm EPS-W 20, 18 cm reinforced concrete slab, 1.5 cm interior finish

# Thermozell Lightweight Concrete Mix



Cement-based, rapid drying EPS leveling compound complying with ÖNORM B 6550-1 for indoor and outdoor use in 80 liter bags

**Benefits:**

Insulating, light, easy to pump, curing independent of thickness laid, high strength without compaction

**Applications:**

Leveling on wood joists, arched slabs, concrete floors, supporting structures (under screed), leveling for pipes, base for supermarkets and industrial flooring, insulating swimming pool backfill, frost-proof substructure for winter gardens and under patios (over 20 cm)



**Product types:**

TZ 250 Standard | TZ 250 rapid  
to ÖNORM B 6550-1  
TZ 400 Standard | TZ 400 rapid  
to ÖNORM B 6550-1

**Technical Data\***

	250 Standard	250 rapid	400 Standard	400 rapid
Thermal conductivity to EN 12667 W/mK	≤ 0.078		≤ 0.100	
Dry density of bound EPS to EN 1602 kg/m <sup>3</sup>	ca. 250		ca. 350	
Compressive strength to EN 826 kPa	≥ 200		≥ 500	
Water vapor diffusion resistance my		μ = 7		
Reaction to fire in accordance with EN 13501-1	B2		A2	

\* Additional information at [www.thermozell.com](http://www.thermozell.com)

	250 Standard	250 rapid	400 Standard	400 rapid
Bag contents		80 liters		
Bags per pallet		15 (1.2 m <sup>3</sup> )		
Minimum laying thickness		≥ 30 mm		
Water to be added per bag	approx. 9 liters	approx. 7 liters	approx. 11 liters	approx. 9 liters
Processing time	at least 25 min. at 20 °C and 65 % rh			
Processing temperature	+5 °C to +30 °C			

# Thermozell Lightweight Concrete in Bags



Surface treated EPS aggregate, rapid drying leveling compound for indoor and outdoor use in 200 liter bags

**Benefits:**

Insulating, light, ideal for screed pumps, curing independent of thickness laid, high strength without compaction

**Applications:**

Leveling on wood joists, arched slabs, concrete floors, supporting structures (under screed), leveling for pipes, base for supermarkets and industrial flooring, insulating swimming pool backfill, frost-proof substructure for winter gardens and under patios (over 20 cm)



**Product types:**

TZ 250 rapid | TZ 400 rapid | TZ 600 rapid  
to ÖNORM B 6550-1

**Technical Data\***

	250 rapid	400 rapid	600 rapid
Thermal conductivity to EN 12667 W/mK	≤ 0,078	≤ 0,100	≤ 0,138
Dry density of bound EPS to EN 1602 kg/m <sup>3</sup>	ca. 250	ca. 350	ca.500
Compressive strength to EN 826 kPa	≥ 200	≥ 500	≥ 1200
Water vapor diffusion resistance my		μ = 7	μ = 14
Reaction to fire in accordance with EN 13501-1	B2		A2

\* Additional information at [www.thermozell.com](http://www.thermozell.com)

	250 rapid	400 rapid	600 rapid
Bag contents		200 liters	
Bags per pallet		12 (2.4 m <sup>3</sup> )	
Minimum laying thickness		≥ 30 mm	
Water to be added per bag	approx. 15 liters	approx. 20 liters	approx. 28 liters
Processing time	at least 25 min. at 20 °C and 65 % rh		
Processing temperature	+5 °C to +30 °C		

# Thermal Performance Table

## GENERAL TERMS OF SALE AND DELIVERY

External wall and foundation insulation boards				
Product	EPS-F*	EPS-F Plus*	EPS-F Elasto	EPS-P
λD	0.040	0.031	0.031	0.035
Thickness				
10	2.38	2.13	2.13	2.38
20	1.49	1.30	1.30	1.39
30	1.09	0.89	0.89	0.98
40	0.85	0.70	0.70	0.79
50	0.70	0.56	0.56	0.64
60	0.60	0.48	0.48	0.53
70	0.52	0.41	0.41	0.46
80	0.46	0.37	0.37	0.41
90	0.41	0.33	0.33	0.37
100	0.37	0.30	0.30	0.33
110	0.34	0.27	0.27	0.31
120	0.32	0.25	0.25	0.28
130	0.29	0.23	0.23	0.26
140	0.27	0.21	0.21	0.24
150	0.26	0.20	0.20	0.23
160	0.24	0.19	0.19	0.21
170	0.23	0.18	0.18	0.20
180	0.21	0.17	0.17	0.19
190	0.20	0.16	0.16	0.18
200	0.19	0.15	0.15	0.17
220	0.18	0.14	0.14	0.16
240	0.16	0.13	0.13	0.14
260	0.15	0.12	0.12	0.13
280	0.14	0.11	0.11	0.12
300	0.13	0.10	0.10	0.11
320	0.12	0.10	0.10	0.11
340	0.12	0.09	0.09	0.10
360	0.11	0.08	0.08	0.10
380	0.10	0.08	0.08	0.09
400	0.10	0.08	0.08	0.09
420	0.09	0.07	0.07	0.08
440	0.09	0.07	0.07	0.08
460	0.09	0.07	0.07	0.08
500	0.08	0.06	0.06	0.07

Thermal insulation boards							
EPS-W 15*	EPS-W 20*	EPS-W 25*	EPS-W 30*	EPS-W 20 Plus*	EPS-W 25 Plus*	EPS-W 30 Plus*	
0.042	0.038	0.036	0.035	0.031	0.031	0.030	
U-value (W/m²K)							
2.70	2.38	2.38	2.38	2.13	2.13	2.13	
1.61	1.49	1.39	1.39	1.30	1.30	1.22	
1.15	1.09	1.03	0.98	0.89	0.89	0.85	
0.89	0.82	0.79	0.79	0.70	0.70	0.68	
0.76	0.68	0.66	0.64	0.56	0.56	0.55	
0.64	0.58	0.55	0.53	0.48	0.48	0.46	
0.55	0.51	0.48	0.46	0.41	0.41	0.40	
0.48	0.44	0.42	0.41	0.37	0.37	0.35	
0.44	0.40	0.37	0.37	0.33	0.33	0.32	
0.40	0.36	0.34	0.33	0.30	0.30	0.29	
0.36	0.33	0.31	0.31	0.27	0.27	0.26	
0.33	0.30	0.29	0.28	0.25	0.25	0.24	
0.31	0.28	0.27	0.26	0.23	0.23	0.22	
0.29	0.26	0.25	0.24	0.21	0.21	0.21	
0.27	0.25	0.23	0.23	0.20	0.20	0.19	
0.25	0.23	0.22	0.21	0.19	0.19	0.18	
0.24	0.22	0.21	0.20	0.18	0.18	0.17	
0.23	0.21	0.19	0.19	0.17	0.17	0.16	
0.21	0.19	0.18	0.18	0.16	0.16	0.15	
0.20	0.18	0.17	0.17	0.15	0.15	0.15	
0.19	0.17	0.16	0.16	0.14	0.14	0.13	
0.17	0.15	0.15	0.14	0.13	0.13	0.12	
0.16	0.14	0.14	0.13	0.12	0.12	0.11	
0.15	0.13	0.13	0.12	0.11	0.11	0.11	
0.14	0.12	0.12	0.11	0.10	0.10	0.10	
0.13	0.12	0.11	0.11	0.10	0.10	0.09	
0.12	0.11	0.10	0.10	0.09	0.09	0.09	
0.11	0.10	0.10	0.10	0.08	0.08	0.08	
0.11	0.10	0.09	0.09	0.08	0.08	0.08	
0.10	0.09	0.09	0.09	0.08	0.08	0.07	
0.10	0.09	0.08	0.08	0.07	0.07	0.07	
0.09	0.09	0.08	0.08	0.07	0.07	0.07	
0.09	0.08	0.08	0.08	0.07	0.07	0.06	
0.08	0.08	0.07	0.07	0.06	0.06	0.06	

\* incl. heat transfer resistance complying with ÖNORM EN ISO 6946 (0.17 m².K/W)

**U-value:** To obtain the actual U-value, calculations should be based on the entire wall or floor structure in every case. The figure listed here is only the U-value for the insulation board, taking the heat transfer resistance for the external wall into consideration.

### 1. Scope of application

All the deliveries and services of HIRSCH Porozell GmbH, 9555 Glanegg (hereinafter the Company) are provided pursuant to the following general terms of sale and delivery. Any deviating agreement shall apply only if made in writing and confirmed with a signature of parties authorized to represent the Company.

The customer acknowledges that in the case of using its general commercial terms, in the case of any doubts, the Company's terms shall apply, even if no objection to the customer's terms was made or if contract performance have already started.

These general terms of sale and delivery shall apply to all and any business between the Company and the customer in the future, even if not agreed in individual cases.

These general terms of sale and delivery shall apply to contracts between companies. Unless in special cases it concerns contracts with consumers within the meaning of the KSchG (consumer protection act), they shall apply only if they are not contrary to the consumer protection regulations.

### 2. Offers

All the data on the website as well as offer/price lists are provided without the VAT, in a non-binding manner.

Any orders from the customer shall be binding upon their confirmation by the Company. If in the customer's opinion an order confirmation differs from the order, the customer shall notify the Company of the same immediately and in writing. Otherwise, the order confirmation shall be deemed binding for both parties. Any changes to the order shall be binding only upon a written confirmation by the Company.

Declarations submitted by an employee shall require a written confirmation of the Company, under penalty of nullity.

### 3. Prices

Unless agreed otherwise in writing, the contractual currency shall be Euro.

Unless agreed otherwise in writing, all the prices are EXW production facility/Glanegg warehouse, without loading, with readiness for pick-up by the customer, only regarding ordered goods with deduction of sales tax. Transport, packaging and other services related to the goods, including loading and unloading, are excluded from the price and shall be incurred additionally by the customer.

### 4. Delivery

INCOTERMS 2010 shall apply.

The agreed delivery terms shall commence at the moment of the Company's sending of the order confirmation.

Unless agreed otherwise in writing, the date of delivery shall be the last date on which the goods were put at the customer's disposal at the production facility/company's warehouse (EXW delivery date). Unless agreed otherwise in writing, the place of fulfilling the obligations under and all deliveries shall be the production facility/company's warehouse at Glanegg/Austria. This also applies if the shipment costs were pre-financed by the Company.

Justified and minor changes to the obligations in the scope of provision or alternatively deliveries of the company, in particular any potential delivery delays, shall be deemed approved.

In the case of lack of any other written agreement, the shipment is carried out without insurance, at the customer's expense and risk. By request of the customer, the transport and its delivery shall be provided to the customer, at the customer's expense and risk, and the due charges shall be pre-financed. These costs shall be billed to the customer separately, in an invoice. All appropriate shipment types shall be deemed approved by the customer.

Upon starting the loading at the production facility/warehouse, the risk shall pass to the buyer.

The customer shall be obliged to report readiness for collection in order to collect the goods. Should the customer delay the collection, the Company shall be entitled to store the goods on its premises, for which it shall charge an appropriate storage fee as part of an invoice, or to store the goods at the expense and risk of the customer at the premises of an authorized entity. At the same time, the Company shall be entitled to demand performance of the contract and, upon expiration of an appointed period - to withdraw from the contract and to use the goods otherwise. The right to assert damages for non-performance, shall remain unchanged.

### 5. Terms of payment

Unless agreed otherwise, any invoices of the Company shall be paid immediately and without any deductions.

Any and all payments shall only be made in the currency specified herein, by transfer to the bank account specified in the invoice. The payments shall take place without any deductions, pursuant to the terms of the invoice. Any entitlement to deductions requires that all the previously due invoices were paid in full.

In the case of finding a significant deterioration of the customer's financial situation or if the customer delays any invoice payment, the Company shall also be entitled to demand securities with regard to any outstanding deliveries.

In the case of the customer's delay in payment, the Company shall be entitled to charge statutory interest for delay in the invoice. Moreover, in the case of a payment delay the company shall also be entitled to withdraw from the contract upon expiration of an appointed, additional period of time.

The customer undertakes, in the case of a delay, to reimburse the company for the ensuing costs of collection and reminders, unless these costs are necessary to pursue legal claims and commensurate with the amount due.

The customer is not entitled to withhold payments due to counterclaims or to deduct its receivables from the amounts due to the Company.

### 6. Retention of Title/Assignment

The goods delivered remain the property of the Company until they are paid in full. The customer is obliged to properly store and insure the goods delivered for the duration of the retention of title.

Moreover, the customer shall be obliged to notify the Company about any enforcement procedures concerning the customer's property/lien on the goods.

Without prior written consent of the Company, the customer is not entitled to dispose of the goods for which property was reserved, or to use them in any other way, at variance with the retention of title, until all the outstanding payments have been made. In the case of an authorized resale, the customer shall immediately transfer any claims it obtains towards the purchaser up to the amount of open invoices. The customer shall be entitled to appeal to enforce the assigned amounts due towards its customers on behalf of the company. The assignment must be reported to the recipient.

At any time, the Company shall be entitled to assign its receivables towards the customer or retention of title to third parties.

In the case of a delay in payment, the Company shall be entitled to demand a return of all the goods subject to the retention of title. The customer shall not have the right to deduct or retain. All the costs arising in relation to a return collection shall be incurred by the customer.

### 7. Warranty, compensation and product liability

Unless agreed otherwise in writing, the goods shall be manufactured in accordance with the general rules and standards applicable in the EU. Any dimensions, weight and quality details specified in the catalogues, product data and brochures are only approximate guidelines concerning production. Tolerance ranges typical of the trade shall be accepted.

The warranty applies only to the defects which existed at the time of transfer or delivery, whereas the recipient has to prove that the defect has already existed at the time of delivery. The goods are to be inspected against completeness and damage at the time of transfer. Any discovered defects are to be reported immediately, no later than within 5 working days from the transfer, specifying the type and scope of the defects in writing.

Any hidden defects shall be reported in writing, immediately upon finding the same, within 6 months from the transfer. Should no defects be reported, or if they are reported after the specified period, the goods shall be deemed accepted. Pursuance of warranty and compensatory claims, including consecutive claims related to defects, right to sue mistakes resulting from errors, shall remain excluded.

The customer is obliged to inspect the goods before their processing and/or resale. Reservations on account of defects in goods which have already been machined or processed by the customer, or alternatively boards or strips which have already been attached or glued or otherwise installed within buildings or objects shall be excluded. Similarly, reservations concerning defects in goods which the customer has already resold shall not be accepted. Moreover, recourse as per § 933b ABGB (Austrian civil code) shall be excluded.

The warranty/liability shall not apply if the goods are improperly used or modified. In the case of the company's goods, typical processing manuals in the form of technical manuals etc. shall be provided. If any damages, consequential damages or adverse effects occur due to failure to observe these guidelines or recognized technical rules, the Company's warranty/liability shall be excluded.

In the case of any ungrounded reservations reported in relation to alleged defects, the customer shall incur all the Company's costs related to checking whether these defects occur.

Well-grounded complaints shall not entitle to maintain the entire purchase price, but only its respective price.

In the case of a proper, well-grounded reservation related to defects, the company shall, at its discretion, be entitled to

make corrections, free substitute delivery, return of an appropriate amount or to cancel the contract. Any further claims shall be excluded.

Defective parts which are replaced shall be shipped back to the Company at its expense.

In the case of damages, the Company shall only be liable pursuant to the statutory regulations of the Austrian law. In the case of damages regarding loss of life, injury or health damage, the Company shall only be liable if these events result from intentional or negligent conduct of the Company, or alternatively of the entities which assist it in performance. In the case of other damages, the Company shall only be liable in the case of a willful misconduct or gross negligence. Compensation claims shall expire within 6 months after acknowledgement of damage and injuring party, yet in any case within 3 years from transfer of risk. In no case shall the Company be liable for consequential losses or loss of profit.

In any case the total amount of compensation claims and warranty claims, irrespective of the legal title, shall be limited to the net amount of the order.

The Company's statutory liability pursuant to the product liability act shall remain unchanged.

The customer shall be obliged to cooperate in all the issues related to product liability and to immediately provide all the essential information which would allow to avoid damages, in writing. Should the Company decide to recall the product, the customer shall be obliged to withhold sale of the product and to cooperate during replacement.

### 8. Data protection and confidentiality obligation

The customer agrees for the personal details specified in the order to be automatically stored and processed by the Company as part of performance hereunder, within its group companies. The customer undertakes to notify the Company about any change of addresses. Should this obligation be violated, any notices of the company sent to the last known address shall be deemed delivered.

The parties undertake to maintain confidentiality of any information resulting from the commercial relation relative to third parties.

### 9. Customer's guidelines/violation of third parties' protection rights

Should the company's goods be made on the basis of the customer's structural details, drawings, models, etc., the Company's liability/warranty shall only apply to the fact of performance in accordance with the customer's data. The Company shall not be obliged to carry out inspections or to issue warnings. The customer shall be obliged to indemnify the Company from any claims, fines, costs and expenses, regardless of their type, further lawsuits and damages which may arise from violating third parties' protection rights.

### 10. Force majeure

War, fire, plant stoppages, strike, blockade, shortage of power, raw materials, traffic obstacles and any other cases of force majeure shall entitle the Company to withdraw from the contract in part or in full, or to withhold deliveries for the duration of the given event suitably to its scope. The Company shall notify the customer about this fact as soon as possible. This shall not cause any compensation claims.

### 11. Competent court and applicable law.

The exclusive place of jurisdiction shall be the competent court in Klagenfurt. The Austrian substantial law shall apply, under exclusion of the law of conflicts and UN Sales Law (United Nations Convention on Contracts for the International Sale of Goods)

### 12. Partial ineffectiveness

Should any provisions hereof be or turn out to be partially or entirely ineffective, the validity of the remaining provisions shall not be affected. The contract between the Company and the customer shall be binding in its remaining part also in the case of legal ineffectiveness of certain items. Any invalid provision shall be replaced with a provision which achieves to the greatest extent possible the meaning and objective of the invalid provision.

As of January 2017 (Austria)

**HIRSCH Porozell** 

**HIRSCH Porozell GmbH**

A-9555 Glanegg 58, Austria

**T** +43 4277 / 2211 0

**F** +43 4277 / 2211 444

[office.porozell@hirsch-gruppe.com](mailto:office.porozell@hirsch-gruppe.com)

[www.hirsch-gruppe.com](http://www.hirsch-gruppe.com)

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