



**BORWOOD** BELARUSIAN  
FOREST  
HOLDING

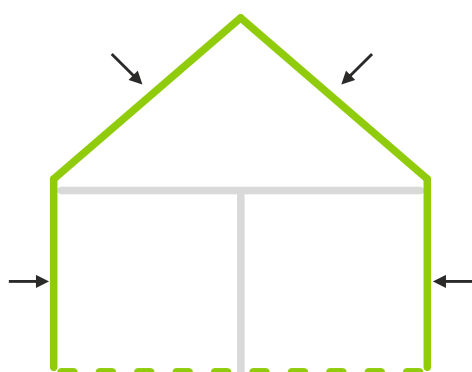
**WOOD FIBER INSULATION BOARDS**

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### Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%);
- paraffin emulsion (1,5%).

### Description and application

Water-resistant board.

Recommended use: external insulation of roofs and insulation of external walls under a protective coating.

Possible use: internal insulation of the ceiling under the screed of seamless floors.

### Installation recommendations

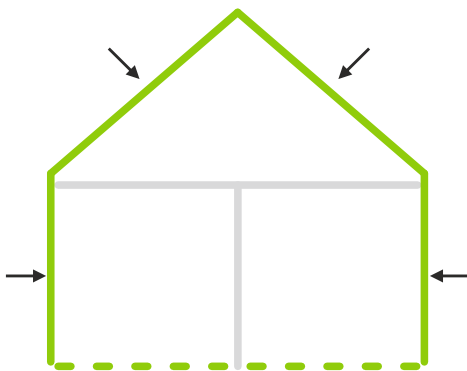
- keep and install in dry conditions;
- cross joints are not allowed;
- install tightly without gaps (for the roof);
- walking on boards between rafters is not allowed;
- structural loads are not allowed (for ex snow load)

### Technical data

Edge profile	Flat/tongue and groove/step									
Standard size [mm]*	2500x600, 2700x600, 2500x750, 1900x600									
Nominal thickness [mm]	20	22	25	28	30	35	40	52	60	
Maximum length/Minimum length [mm]	2850/800									
Maximum width/Minimum width [mm]	1250/570									
Bulk density [kg/m <sup>3</sup> ]	200									
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,042									
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	0,047	0,052	0,59	0,66	0,78	0,83	0,95	1,23	1,42	
Water vapor diffusion resistance factor, $\mu$	3									
Compression strength [kPa]	150									
Tensile strength perpendicular to surface [kPa]	15									
Short-term water absorption [kg/m <sup>2</sup> ]	≤1,0									
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	100									
Specific heat capacity, c [J/kg*K]	2100									
Fire class (according to EN 13501-1)	E									

\* Others upon request.

# ULTRA



## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%);
- paraffin emulsion (1,5%).

## Description and application

Water-resistant board.

Recommended use: external insulation of roofs and insulation of external walls under a protective coating.

Possible use: internal insulation of the ceiling under the screed of seamless floors, insulation of internal and external walls under facade cladding.

## Installation recommendations

- keep and install in dry conditions;
- cross joints are not allowed;
- install tightly without gaps (for the roof);
- walking on boards between rafters is not allowed;
- structural loads are not allowed (for ex snow load)

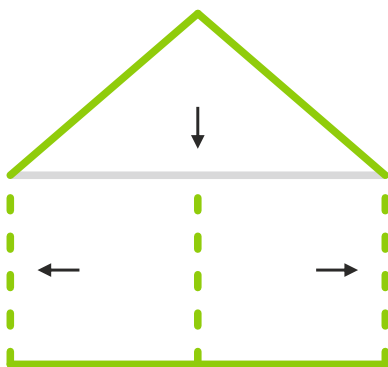
## Technical data

Edge profile	Flat/tongue and groove/step									
Standard size [mm]*	1900x600, 1800x600, 1200x600, 1250x600, 2500x600									
Nominal thickness [mm]	20	40	50	60	80	100	120	140	160	
Maximum length/Minimum length [mm]	2850/800									
Maximum width/Minimum width [mm]	1250/570									
Bulk density [kg/m <sup>3</sup> ]	180									
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,042									
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	0,52	0,095	1,19	1,43	1,9	2,38	2,86	3,33	3,8	
Water vapor diffusion resistance factor, $\mu$	3									
Compression strength [kPa]	150									
Tensile strength perpendicular to surface [kPa]	10									
Short-term water absorption [kg/m <sup>2</sup> ]	≤1,0									
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	100									
Specific heat capacity, $c$ [J/kg*K]	2100									
Fire class (according to EN 13501-1)	E									

\* Others upon request.



# FLOOR



## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%).

## Description and application

Recommended use: insulation of seamless floors under a screed.  
Possible use: internal insulation of floors, exterior walls and partitions.

## Installation recommendations

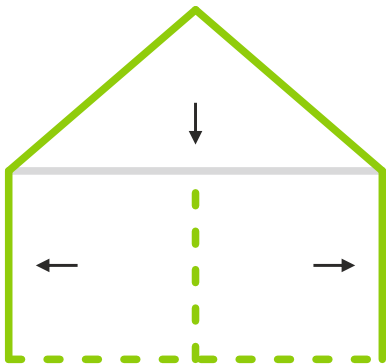
- lay on a dry, flat and durable surface;
- plates should be laid with offset joints;
- when laying on the floor lay a layer of waterproofing.

## Technical data

Edge profile	Flat/tongue and groove/step									
Standard size [mm]*	1200x600, 1250x580, 1250x600									
Nominal thickness [mm]	20	30	40	60	80	100	120	140	160	
Maximum length/Minimum length [mm]	2850/800									
Maximum width/Minimum width [mm]	1250/570									
Bulk density [kg/m <sup>3</sup> ]	160									
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,041									
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	0,48	0,73	0,97	1,46	1,95	2,43	2,92	3,41	3,90	
Water vapor diffusion resistance factor, $\mu$	3									
Compression strength [kPa]	100									
Tensile strength perpendicular to surface [kPa]	7,5									
Short-term water absorption [kg/m <sup>2</sup> ]	-									
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	100									
Specific heat capacity, c [J/kg*K]	2100									
Fire class (according to EN 13501-1)	E									

\* Others upon request.

# INSTAL



## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%).

## Description and application

Recommended use: internal insulation of outer walls and insulation of floor slabs.  
Possible use: internal walls and floor insulation.

## Installation recommendations

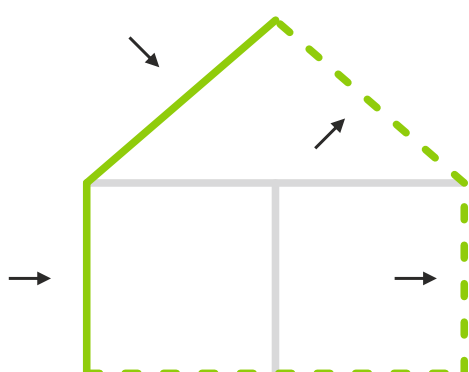
- keep and install in dry conditions;
- cross joints are not allowed.

## Technical data

Edge profile	Flat/tongue and groove/step							
Standard size [mm]*	1200x600, 1250x580							
Nominal thickness [mm]	20	50	60	80	100	120	140	160
Maximum length/Minimum length [mm]	2850/800							
Maximum width/Minimum width [mm]	1250/570							
Bulk density [kg/m <sup>3</sup> ]	150							
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,040							
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	1,0	1,25	1,5	2,0	2,5	3,0	3,5	4,0
Water vapor diffusion resistance factor, $\mu$	3							
Compression strength [kPa]	100							
Tensile strength perpendicular to surface [kPa]	7,5							
Short-term water absorption [kg/m <sup>2</sup> ]	-							
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	100							
Specific heat capacity, $c$ [J/kg*K]	2100							
Fire class (according to EN 13501-1)	E							

\* Others upon request.





## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%);
- paraffin emulsion (1,5%).

## Description and application

Water-resistant board.

Recommended use: external insulation of the roof, insulation of the attic floor on a flat surface.

Possible use: external insulation under the veneer lining of ventilated facades, insulation of external walls and floors.

## Installation recommendations

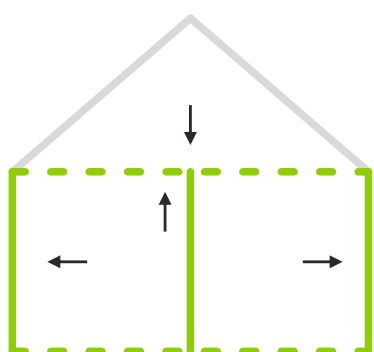
- lay on a dry, flat and durable surface;
- boards should be laid tightly to each other without gaps;
- it is forbidden to walk on the slabs in the gap between the rafters;
- boards are not a supporting structure (for example, during a snow load).

## Technical data

Edge profile	Flat/tongue and groove/step						
Standard size [mm]*	1200x600, 1250x580, 1250x600						
Nominal thickness [mm]	30	60	80	100	120	140	180
Maximum length/Minimum length [mm]	1250/800						
Maximum width/Minimum width [mm]	1250/570						
Bulk density [kg/m <sup>3</sup> ]	140						
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,039						
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	1,03	1,54	2,05	2,56	3,08	3,59	4,10
Water vapor diffusion resistance factor, $\mu$	3						
Compression strength [kPa]	80						
Tensile strength perpendicular to surface [kPa]	5						
Short-term water absorption [kg/m <sup>2</sup> ]	≤1,0						
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	100						
Specific heat capacity, c [J/kg*K]	2100						
Fire class (according to EN 13501-1)	E						

\* Others upon request.

# SAFE



## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%).

## Description and application

Recommended use: internal insulation of outer walls and interior walls.

Possible use: insulation of floor slabs, ceiling and floors.

## Installation recommendations

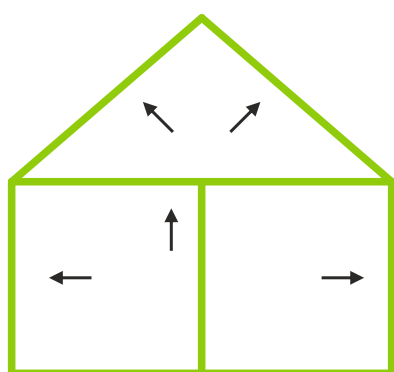
- keep and install in dry conditions;
- cross joints are not allowed.

## Technical data

Edge profile	Flat							
Standard size [mm]*	1200x600, 1250x580, 1250x600							
Nominal thickness [mm]	30	60	80	100	120	140	180	
Maximum length/Minimum length [mm]	1250/800							
Maximum width/Minimum width [mm]	1250/570							
Bulk density [kg/m <sup>3</sup> ]	140							
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,039							
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	1,02	1,53	2,05	2,56	3,08	3,59	4,1	
Water vapor diffusion resistance factor, $\mu$	3							
Compression strength [kPa]	80							
Tensile strength perpendicular to surface [kPa]	5							
Short-term water absorption [kg/m <sup>2</sup> ]	-							
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	100							
Specific heat capacity, $c$ [J/kg*K]	2100							
Fire class (according to EN 13501-1)	E							

\* Others upon request.





## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%).

## Description and application

Recommended use: internal insulation of all types of constructions: roof, floor slabs, ceilings, outer walls and interior walls.

## Installation recommendations

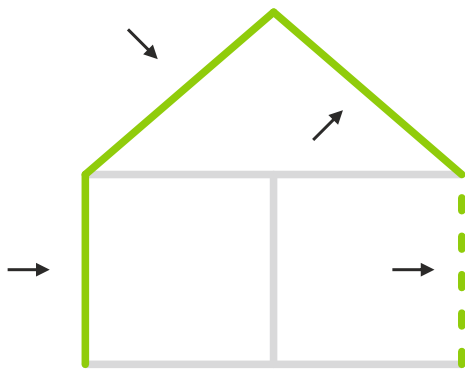
- keep and install in dry conditions;
- cross joints are not allowed.

## Technical data

Edge profile	Flat									
Standard size [mm]*	1200x600, 1250x580									
Nominal thickness [mm]	30	38	40	60	80	100	120	140	200	
Maximum length/Minimum length [mm]	1250/800									
Maximum width/Minimum width [mm]	1250/570									
Bulk density [kg/m <sup>3</sup> ]	130									
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,038									
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	0,84	1,0	1,05	1,58	2,1	2,63	3,15	3,68	4,21	
Water vapor diffusion resistance factor, $\mu$	3									
Compression strength [kPa]	60									
Tensile strength perpendicular to surface [kPa]	5									
Short-term water absorption [kg/m <sup>2</sup> ]	-									
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	50									
Specific heat capacity, c [J/kg*K]	2100									
Fire class (according to EN 13501-1)	E									

\* Others upon request.

# KOMBI



## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%);
- paraffin emulsion (1,5%).

## Description and application

Water-resistant board.

Recommended use: external and internal insulation of roofs and external insulation of outer walls.

Possible use: internal insulation of outer walls, constructions of frame-panel buildings.

## Installation recommendations

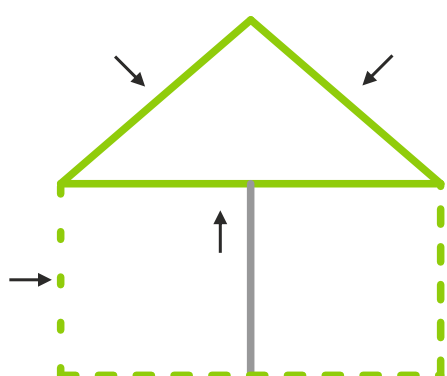
- lay on a dry, flat and durable surface;
- boards should be laid tightly next to each other without gaps.

## Technical data

Edge profile	Flat/step											
Standard size [mm]*	1200x600, 1250x580, 1250x600											
Nominal thickness [mm]	40	60	80	100	120	140	160	180	200	220	240	
Maximum length/Minimum length [mm]	1250/800											
Maximum width/Minimum width [mm]	1250/570											
Bulk density [kg/m <sup>3</sup> ]	110											
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,038											
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	1,05	1,58	2,1	2,63	3,15	3,68	4,21	4,73	5,26	5,78	6,31	
Water vapor diffusion resistance factor, $\mu$	3											
Compression strength [kPa]	60											
Tensile strength perpendicular to surface [kPa]	5											
Short-term water absorption [kg/m <sup>2</sup> ]	≤2,0											
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	50											
Specific heat capacity, c [J/kg*K]	2100											
Fire class (according to EN 13501-1)	E											

\* Others upon request.





## Composition

- natural coniferous wood fibers;
- MDI resin on polyurethane basis (4%);
- paraffin emulsion (1,5%).

## Description and application

Flexible plate.  
Recommended for insulating the space between rafters, as well as structures of frame and frame-panel houses and partitions.

## Installation recommendations

- store and lay boards in dry conditions;
- during storage, do not allow pallets with a plate to be stacked on top of each other;
- cut with an allowance along the length and width of 5-10 cm (compensation occurs due to the compression of the plates during installation);
- secure the slabs in the roof and floor structures against falling out.

## Technical data

Edge profile	Flat											
Standard size [mm]*	1200x600, 1200x580											
Nominal thickness [mm]	40	60	80	100	120	140	160	180	200	220	240	
Maximum length/Minimum length [mm]	1200											
Maximum width/Minimum width [mm]	600/580											
Bulk density [kg/m <sup>3</sup> ]	50											
Declared thermal conductivity, $\lambda_D$ [W/m*K]	0,039											
Declared thermal resistance, $R_D$ [m <sup>2</sup> k/W]	1,05	1,58	2,11	2,63	3,16	3,68	4,21	4,74	5,26	5,79	6,32	
Water vapor diffusion resistance factor, $\mu$	0,5											
Compression strength [kPa]	-											
Tensile strength perpendicular to surface [kPa]	-											
Short-term water absorption [kg/m <sup>2</sup> ]	-											
Declared level of airflow resistance [(kPa*s)/m <sup>3</sup> ]	5											
Specific heat capacity, c [J/kg*K]	2100											
Fire class (according to EN 13501-1)	E											

\* Others upon request.





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