ONEWOOD®

ONEWOOD – CARELESS BEAUTY

TERRACES

ONEWOOD®

100%
recyclable

Anti-slip

Does not need
staining or oiling

Splinter-free

Developed for
Nordic climate

Weatherproof

Easy install

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ONEWOOD®

OneWood is a producing and selling company of terrace, fence and façade boards made of the wood plastic composite material in Estonia. The composition of the products are developed for the use in Nordic climate, by containing the best combination of wood (60%), plastic (30%) and additives (10%). This combination of materials provides a natural wooden look to the products, ensures long-lasting durability and insignificant maintenance costs. The products are weatherproof, do not need oiling or staining, do not separate surfaces and are not slippery even with wet weather. OneWood products change the way of thinking regarding the maintenance and safe use of terraces, fences, facades and garden furniture. You'll find information about our products on our homepage: www.onewood.ee

TERRACES

Terrace boards are available in three different profiles:
Light, Nordic and Strong.

FENCES

Fence boards are available in two different profiles: Light and Strong.

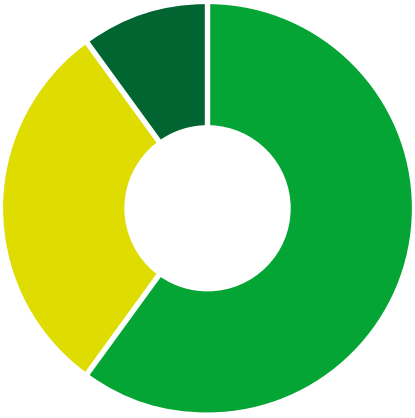
FACADES

Facade boards are available in three different versions: facade board Natural, and facade boards Deco and Spa for decorative purposes.

TECHNICAL CHARACTERISTICS

Wood plastic composite is an ecological modern wood material and is 100% recyclable. The material is produced from wood and plastic mixture and additional additives are added into the product to protect it against environmental influences (UV protection, colorant, adhesive, stabilizers etc.). The composition of OneWood terrace boards is developed for the use in Nordic climate, which highlights the best qualities of wood and plastic as well: long-term durability, natural beauty of timber and easy maintenance (does not need oiling or staining). Additionally the products are processed against slippery, which makes the use of a terrace safe also with wet weather.

Tests. The long-term durability and high-quality of the OneWood products are verified by the tests carried out by Tallinn University of Technology, which meet the international standards of wood plastic composite materials.



Quality	Standard	Unit	Value
Density/specific gravity		kg/m³	1380
Bending strength	ISO 16616:2015(E)	MPa	44,02
Elastic modulus	EVS-EN 15534-1:2014	MPa	5054,78
Impact strenght	EVS-EN ISO 179-1	kJ/m²	20,46
Water absorbency 28p	EVS-EN 317:2000	%	2,46
Swelling 28p	EVS-EN 15534-1:2014	%	0,54
Thermal expansion	EVS-EN 479:2003	%	0,04
Consumption index	ASTM D4060-14	-	0,000204
Color change (ΔE) 2000h UV-d	EVS-EN 15534-1:2014	-	2,2
Fire resistance	EVS-EN 13501-1:2007+A1:2009	Class C_{FL}	

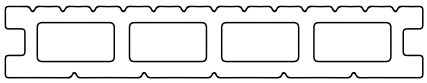
TERRACE BOARDS PROFILES

The composition of OneWood terrace boards is developed for the use in Nordic climate, which highlights the best qualities of both – timber and plastic: long-term durability, natural beauty of timber and easy maintenance (does not need oiling or staining). Additionally the products are processed against slippery, which makes the use of a terrace safe also with rainy weather.

OneWood product range has three profiles of terrace boards available: Light, Nordic and Strong profile. Every profile has it's characteristics and diffences depending of usage to fulfill the needs of every client.

Standard length of the terrace boards is 4.2 m. On request, it is possible to have other lengths according to the selected profile from 1.5 to 4.2 m. Regular fire resistance class of boards is C_{fl}-s1, but it's possible to produce boards with class B_{fl}-s1.

LIGHT PROFILE



LIGHT is a double-sided hollow profile with a good strength and weight ratio, which makes it the most popular terrace board in our selection. It's surface is bruched, with grooves. Areas of application: terraces, balconies, pathways, pergolas etc.

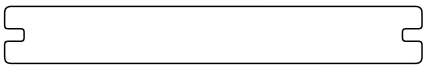
Colours

NORDIC PROFILE

NORDIC is a wawy full profile with elegant natural wood pattern as surface treatment. Its qualities satisfy the demands of both public areas as well as private clients.

Colours

STRONG PROFILE

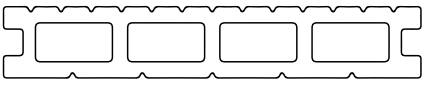


STRONG is a double-sided full profile with Nordic elegance. It's surface treatment is a natural wood on one side and smooth bruched surface on other. Its qualities are most suitable for public areas like outdoor terraces of hotels, pathways, outdoor cafes, shopping centres, harbours etc.

Colours

100% recyclable | Anti-slip | Does not need staining or oiling | Splinter-free | Developed for Nordic climate | Weatherproof | Easy install

LIGHT PROFILE



Width	150 mm
Thickness	25 mm
Length	4200 mm
Weigth	2,9 kg/m
Consumption	6,5 m/m²

Colours

NORDIC PROFILE

Width	150 mm
Thickness	20 mm
Length	4200 mm
Weigth	3,2 kg/m
Consumption	6,5 m/m²

Colours

STRONG PROFILE

Width	150 mm
Thickness	20 mm
Length	4200 mm
Weigth	4,2 kg/m
Consumption	6,5 m/m²

Colours

ONEWOOD®

TERRACE BOARDS

TERRACE BOARD LIGHT

Art. no.	Article	EAN code	Weight kg/m	Measurements of the package, mm	Pieces in package, pcs	Weight of the package, kg
300330	Terrace board Light 150x25x4200 brown	4742024371013	2,9	4200x750x725	120	1462
300332	Terrace board Light 150x25x4200 dark brown	4742024371020	2,9	4200x750x725	120	1462
300340	Terrace board Light 150x25x4200 grey	4742024371037	2,9	4200x750x725	120	1462
300341	Terrace board Light 150x25x4200 dark grey	4742024371044	2,9	4200x750x725	120	1462

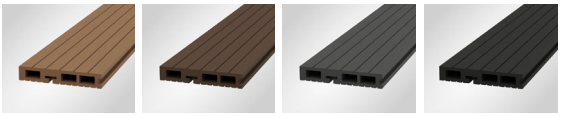
TERRACE BOARD NORDIC

302010	Terrace board Nordic 150x20x4200 white	4742024372003	3,2	4200x750x515	100	1344
302030	Terrace board Nordic 150x20x4200 brown	4742024372010	3,2	4200x750x515	100	1344
302032	Terrace board Nordic 150x20x4200 dark brown	4742024372027	3,2	4200x750x515	100	1344
302041	Terrace board Nordic 150x20x4200 dark grey	4742024372034	3,2	4200x750x515	100	1344

TERRACE BOARD STRONG

302330	Terrace board Strong 150x20x4200 brown	4742024371204	4,2	4200x750x455	80	1411
302332	Terrace board Strong 150x20x4200 dark brown	4742024371211	4,2	4200x750x455	80	1411
302341	Terrace board Strong 150x20x4200 dark grey	4742024371228	4,2	4200x750x455	80	1411

EDGE BOARD LIGHT

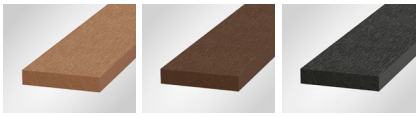


303031	Edge board Light 150x25x4200 brown	4742024371150	3,1	4200x750x725	100	1562
303032	Edge board Light 150x25x4200 dark brown	4742024371167	3,1	4200x750x725	100	1562
303033	Edge board Light 150x25x4200 grey	4742024371174	3,1	4200x750x725	100	1562
303034	Edge board Light 150x25x4200 dark grey	4742024371181	3,1	4200x750x725	100	1562

EDGE BOARD NORDIC

303110	Edge board Nordic 150x20x4200 white	4742024373109	3,3	4200x750x515	100	1386
303130	Edge board Nordic 150x20x4200 brown	4742024373116	3,3	4200x750x515	100	1386
303132	Edge board Nordic 150x20x4200 dark brown	4742024373123	3,3	4200x750x515	100	1386
303141	Edge board Nordic 150x20x4200 dark grey	4742024373130	3,3	4200x750x515	100	1386

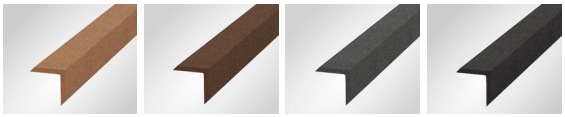
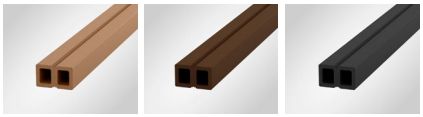
EDGE BOARD BASIC



301330	Edge board Basic 78x14x4200 brown	4742024373017	1,6	4200x750x455	198	1289
301332	Edge board Basic 78x14x4200 dark brown	4742024373024	1,6	4200x750x455	198	1289
301341	Edge board Basic 78x14x4200 dark grey	4742024373048	1,6	4200x750x455	198	1289

ONEWOOD®

TERRACE ACCESSORIES

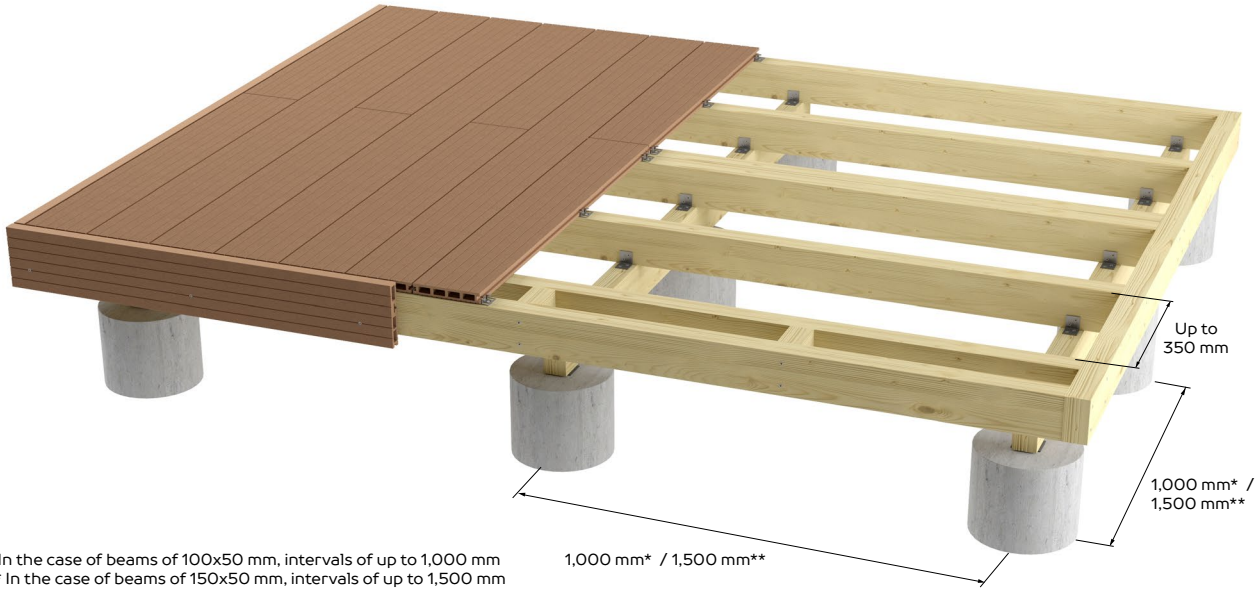
Art. no.	Article	EAN code	Weight kg/m	Measurements of the package, mm	Pieces in package, pcs	Weight of the package, kg
END CAP LIGHT TERRASSILAUALE						
304103	End cap 150x25 brown	4742024377039	0,02	300x200x50	20	0,4
304102	End cap 150x25 dark brown	4742024373046	0,02	300x200x50	20	0,4
304104	End cap 150x25 grey	4742024377053	0,02	300x200x50	20	0,4
304101	End cap 150x25 dark grey	4742024377060	0,02	300x200x50	20	0,4
Corner board BASIC						
						
310330	Corner board Basic 40x40x4200 brown	4742024377084	0,6	4200x110x50	10	25
310332	Corner board Basic 40x40x4200 dark brown	4742024377091	0,6	4200x110x50	10	25
310340	Corner board Basic 40x40x4200 grey	4742024377107	0,6	4200x110x50	10	25
310341	Corner board Basic 40x40x4200 dark grey	4742024377114	0,6	4200x110x50	10	25
Beam						
						
311036	Beam 50x30x4200 brown	4742024377138	1,17	4200x750x675	270	1327
311034	Beam 50x30x4200 dark brown	4742024377121	1,17	4200x750x675	270	1327
311038	Beam 50x30x4200 dark grey	4742024377152	1,17	4200x750x675	270	1327

Art. no.	Article	EAN code	Weight kg/karp	Measurements of the pack, mm	Packs in package, pcs	Weight of the package, kg
STARTER CLIP						
222529	Starter clip 25x26x10 A2 (20 pcs)	4742024370047	0,2	105x75x32	72	12
FIXING CLIP (STEEL A2)						
224040	Fixing clip 40x34x10 A2 (50 pcs)	4742024370078	0,7	170x112x58	24	16
SCREW FOR STEEL CLIP						
212425	Screw M4x25 A2 Torx (100 pcs)	4742024370016	0,2	105x75x32	72	12
FIXING CLIP (PLASTIC)						
221736	Fixing clip 18x36x12 plastic (50 pcs)	4742024370030	0,3	170x112x58	32	9,6
SCREW FOR PLASTIC CLIP						
212426	Screw M4x35 A2 Torx for plastic clip (100 pcs)	4742024370023	0,2	105x75x32	72	16

INSTALLATION OF TERRACE BOARDS

TIMBER BEAM SUBSTRUCTURE ON CONCRETE FOUNDATION POLES

Other baseconstruction options are available on **onewood.ee**.

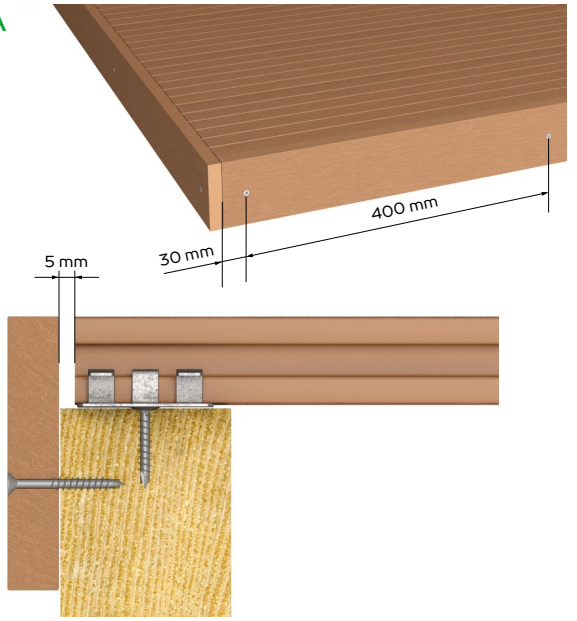


* In the case of beams of 100x50 mm, intervals of up to 1,000 mm
** In the case of beams of 150x50 mm, intervals of up to 1,500 mm

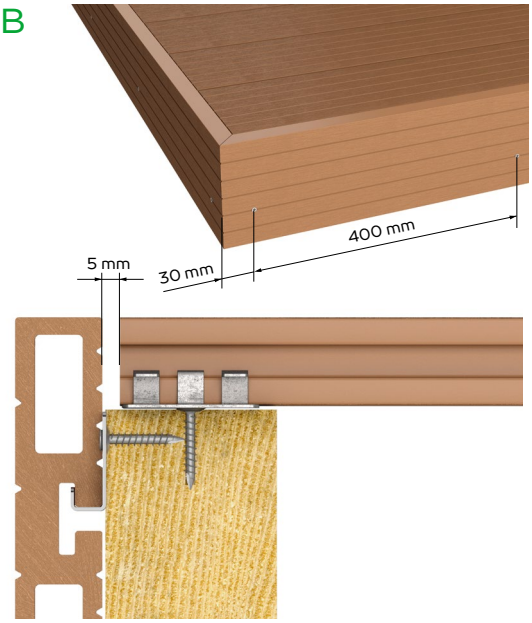
COVERING EDGES AND CORNERS

Edge boards with measures of 78x14 mm, 150x20 and 150x25 mm made of wood plastic composite material are the most suitable to cover the edges. Fixing screws must be installed after every 400 mm. The joints of an edge board must have a 5 mm space and the minimum distance of a fixing screw from the edge must be 30 mm.

A



B



EXPANSION GAPS

Depending on the outdoor temperature, expansion gaps should be left at the joints.

EXPANSION GAPS (mm)				
Installation temperature	Board length			
	1.0 m	2.0 m	3.0 m	4.2 m
10 °C	2.0	4.0	6.0	8.4
20 °C	1.5	3.0	4.5	6.3
25 °C	1.0	2.0	3.0	4.2
30 °C	0.5	1.0	1.5	2.1

CUTTING

To cut the wood plastic composite material regular wood cutting devices are suitable, large tooth saw blades should be avoided.

MATERIALS AND TOOLS

Necessary materials:

- Terrace boards
- Starter clip
- Fixing clip
- Screws
- Beams

Work equipment:

- Cordless drill (drill and torx nozzle)
- Saw
- Securing straps
- Pencil
- Protective equipment (goggles, gloves etc.)

STORAGE

Avoid dragging and throwing the boards while loading and storing. Terrace boards should be stored horizontally on the flat surface, preferably in an original package, on a wooden surface or on 50 mm wide wood poles, which spacing should not exceed 500 mm. To be stored in a well-ventilated room.

BASE CONSTRUCTION

The beams must be supported by the substructure so that the distance between two supporting beams does not exceed 1,000 mm in the case of 100x50 mm beams or 1,500 mm in the case of 150x50 mm beams. The beams should be installed with an interval of up to 350 mm. In the places where one terrace board ends and another one begins, two beams must be installed side-by-side. Outermost beams should be installed so that the terrace board does not extend more than 30 mm over the edge of the beam. At least three supporting beams must be used for installation of short terrace boards (from 40 mm).

NB! The base construction should be formed in a way that the terrace would be with a slight slope (5 mm/m) to avoid water puddles.

DRILLING

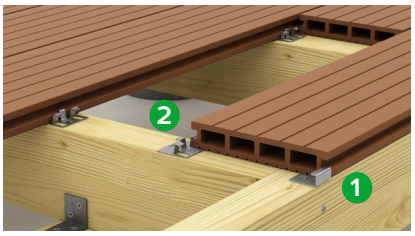
To fix with screws it is always necessary to previously drill the screw holes into the wood plastic composite material. The drill should be smaller than the diameter of the screw. For instance, For a 4 mm diameter screw, the drill should be with 3 mm diameter. During the sawing process the drill should occasionally be drawn out of the drilling hole, so the sawdust would get out of the hole.

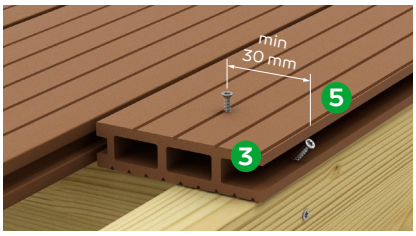
PRE-DRILLING OF EDGE PROFILES

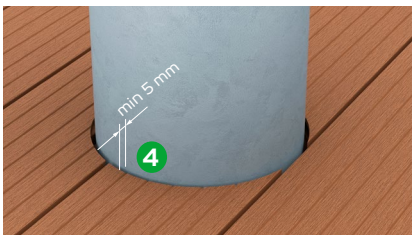
For fixing of edge profiles, screw holes should always be pre-drilled. The drill should be bigger than the diameter of the screw. For instance, For a 4 mm diameter screw, the drill should be with 5 mm diameter. During the sawing process the drill should occasionally be drawn out of the drilling hole, so the sawdust would get out of the hole.

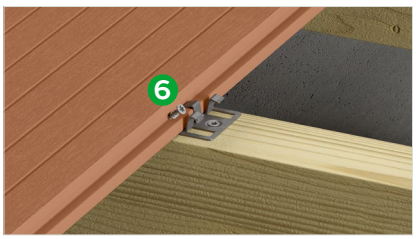
INSTALLATION STEP BY STEP

1. First terrace board should be fixed with a starter clip.
2. The next ones should be fixed with a fixing clip.
3. The last board should be fixed with a screw diagonally, from the edge of the board or right through form the middle of the board.
4. 5 mm space must remain in the joints of boards, contact space with edging board, house wall or some other objects.
5. By fixing the screw through the board, leave a 30 mm space between the board edge and securing space.
6. In order to enable uniform expansion of the boards, all boards should be fixed with one screw (advisably in the middle of the board) diagonally from the edge of the board.









SUGGESTED INSTALLATION PATTERNS

MAINTENANCE

OneWood terrace has very low maintenance cost, the terrace does not need as similar maintenance as the regular wood terrace. The terrace does not involve a costly and time-consuming staining, oiling or any other covering. Periodic cleaning and washing is enough to ensure the beautiful look of the outdoor terrace. Generally a brush, pressure washer, soap water and sponge will do the cleaning.

INSTRUCTION FOR MAINTENANCE

No.	Problem	Maintenance and solution
1.	Dust and dirt	To remove dust and dirt, the surface should regularly be cleaned with water and brush, by wiping at the same direction with the pattern of the terrace board. To remove stronger dirt, use a pressure washer, if necessary use soap water or special detergent for WPC.
2.	Plants and leaves	Loose garbage should be removed with a brush and soaked with water. To remove stronger dirt, use a pressure washer, if necessary use soap water or weak aqueous solution of 2 % oxalic acid.
3.	Removing snow and ice	Snow and ice can be removed by a brush or plastic spade. To melt snow road salt (calcium chloride or sodium chloride) can be used. NB! Not to use a metal spade or any other tools damaging the surface.
4.	Salt residue	Loose salt residue should be wiped with a brushed and soaked with water, to remove stains, use washing detergent and warm water.
5.	Rust	Remove loose dirt with a brush and soak with water, to remove stains use detergent and warm water. For stronger dirt use aqueous solution with low level of oxalic or phosphoric acid and soak with water.
6.	Cement	Remove cement pieces with a brush and wash with a pressure washer. Use a detergent and warm water to remove the stains. For a harder damage, let the surface dry properly and to remove cement use sand paper with low grids.
7.	Food and drink stains	Soap water, a detergent containing acetone or methanol are suitable for cleaning and wipe with a brush in parallel with the terrace board pattern. For harder dirt let the surface to dry properly and redo the cleaning process when needed.
8.	Colour and oil stains	Use soap water, detergent containing acetone or methanol to clean and then wipe with a brush in parallel with the terrace board pattern. For stronger dirt, let the surface dry properly, in extreme cases remove the stains using fine sandpaper and if necessary use once more the detergent. If you are working with paints and stains on a terrace, cover the terrace floor
9.	Mould	To prevent mould the surface should be regularly cleaned and washed. To remove mould use a pressure washer and wipe with a brush in parallel with the terrace board pattern. For stronger mould, use soap water or special anti-mould detergents that are on sale at shops.
10.	Scratches	Lighter scratches vanish within time, to remove deeper ones, use fine sandpaper and rub it in parallel with the terrace board pattern.

NB!

1. To clean the surfaces use solvents and detergents which pH is neutral. Stronger detergents may bleach and have a permanent impact on the surfaces colour.
2. Never use industrial chemicals to clean surfaces, because they may permanently bleach or damage the surface.
3. To prevent scratching, use only a soft bristled brush to clean surfaces.
4. Detergents containing oxalic acid and methanol should be used at low concentrations. If necessary slightly increase the concentration, by adding it to the water.
5. It is recommended to use sandpaper with grits between 40 and 100. Do not use a grinding machine!
6. It is not recommended to sand surfaces with wood pattern. Sanding removes the relief surface permanently.
7. When using a pressure washer the nozzle should not be closer than 300 mm to the terrace surface.

WARRANTY

Warranty provisions are derived from the legislation of the Republic of Estonia and granting the guarantee is primarily based on the warranty given by the manufacturer provided that these are not in contradiction with the laws of the Republic of Estonia. The warranty covers the product's deficiencies related to production or materials during the warranty period.

1. General warranty conditions
   1.1 The warranty is valid for the product's purposeful use for 2 years, i.e. 24 months.
   1.2. The warranty period starts with the day the product was delivered.

2. The conditions for the validity of the warranty are current regulations and instructions for installation and maintenance, which should be taken as the basis for the installation, use and maintenance of the product. The warranty sgrey be valid, if the product has been regularly maintained and used purposefully.

3. Warranty does not include:
   3.1. Training about the installation, maintenance and use of the product.
   3.2. Repair of failures resulting from transportation damages and other mechanical damages (vandalism, lightning, fire etc.).

The warranty does not cover the failures that resulted from insufficient maintenance, incorrect installation or repair works or general wear.

More specific terms of sale and delivery are available on Onewoodi homepage **onewood.ee** "MANUALS / TERMS OF SALES AND DELIVERY".

Developed for Nordic climate.

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