

# LUNAWOOD GUIDELINE FOR PROFESSIONALS -INTERIOR

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## TWO TREATMENT CLASSES

Lunawood produces two standard thermal modification classes, LunaThermo-S and LunaThermo-D. The difference between the classes centres on differing heat treatment temperatures.

### LunaThermo-S

LunaThermo-S, where S stands for stability, has an attractive shade of light brown and the stability is greatly improved. It is heat treated with milder temperatures (190°C). LunaThermo-S products are suitable for indoor applications.

### LunaThermo-D

LunaThermo-D, where D stands for durability, has a darker brown tone. Its durability and stability are improved significantly. LunaThermo-D is thermally modified at 212°C and is suitable for internal and external applications without the need for chemical preservative treatment. LunaThermo-D is also suitable for humid spaces like spa and sauna.



*LunaThermo-S on left, and LunaThermo-D on right*

## NON-TOXIC

Lunawood Thermowood is a pure organic material produced using only natural methods - heat and steam - without chemicals.

## DIMENSIONAL STABILITY

Lowered equilibrium moisture content of Lunawood Thermowood makes it dimensionally stable and the material retains its shape far better than untreated wood. The outstanding dimensional stability allows Lunawood to be successfully used in all climates and even in hot and humid weather conditions indoors and outdoors.

## RESIN FREE

Due to the thermal modification Lunawood Thermowood products are pure, safe, and hygienic for indoor use, even for allergy sufferers who are prone to wood-related reactions. From the visual point of view, Lunawood Thermowood retains its colour beautifully and does not secrete any resin through the paints or tints. And furthermore, thanks to the resin-free property, the knots don't show up through paints or tints even over time.

## SCENT

Lunawood Thermowood has a characteristic and elegant scent. Scent emerges in heat treatment from natural components of wood, along with other desirable properties. Scent has similarities with other products where

heat and aroma are elements, like coffee extracted from roasted coffee beans, smoked foods, BBQ where smoke flavour is important, whiskey and cognac which are aged in flame treated barrels.

### **INDOOR AIR QUALITY -EMISSIONS**

Lunawood Thermowood total emissions are significantly lower than untreated wood. TVOC (Total Volatile Organic Compound) for Thermowood is 0,04 mg/m<sup>2</sup>h. For comparison, untreated Scot Pine has TVOC of 1 mg/m<sup>2</sup>h. Emission profile is also different, like scent. Emissions will decrease overtime from their already low levels.

### **LEACHING**

LunaThermo-D does not in general leach color. Minor release of the color pigment is possible in humid spaces like spa and sauna.

### **FIRE RATING**

Lunawood has D4 rating which means it same as any natural timber. Lunawood will accept standard fire retardant treatments in the same way as un-modified timber.

### **ACOUSTIC**

Lunawood Thermowood walls, ceilings, floors, or other interior elements naturally soften noise by creating a soft, sound-breaking surface in the space. Echo is reduced on wooden surfaces, which reduces the noise level in the premises. The porous wood surface does not reflect sound in the same way as hard and artificial materials. According to the tests, Lunawood Thermowood has 20% shorter reverberation than hard surfaces. When installed battens or Luna Triple Shadow, the reverberation is even shorter.

### **INSTALLATION**

Every Lunawood Interior product has an option for hidden fixing. Always use stainless steel fastenings when installing Lunawood. Provide adequate support structure in accordance with your local building regulations. Do not install lamps or other heavy objects directly to the product. For detailed information on fixings please refer to the Lunawood installation guide: <https://lunawood.com/downloads/>

### **SURFACE COATINGS**

Gluing of Lunawood Thermowood is possible. However, the gluing and compression time may be 4–6 times longer compared to un-modified wood. Good results can be achieved with most common adhesives, but PUR glue gives the best performance according to test results.

### **WEARING OVER TIME**

Like all timber products LunaThermo-D will go grey upon exposure to UV, and in time may show some fine cracks or splits on the surface. The silvering effect will be visible in a relatively short period of time, 3 to 6 months after installation. It is recommended to apply an oil or approved wood coating to help preserve and maintain the original appearance.

### **SURFACE COATINGS**

Lunawood Thermowood is also an extremely sustainable material, as it retains its colour beautifully and does not necessarily require any maintenance. And most importantly, thanks to the resin-free feature, it does not secrete any resin through the paints or tints. For the surface treatment normal paints, wood oils, waxes, and varnishes can be used indoors.



Paraffin oil can be used in addition to a surface treatment agent to emphasize the color of Thermowood and protect it from impurities. Linen oil may not be used. We always recommend surface treatment with paraffine oil to Lunawood Sauna materials to ensure the continuous high hygiene level.

A self-selected shade is also possible. In this case, it should be noted that the color patterns tinted to bright wood do not correspond to the final color tone due to the specific characteristic brown tone of the Thermowood. We recommend test painting.

## MAINTENANCE

Lunawood has a uniform color throughout the profile. Even small dents and scratches are not visible, and the surface can be sanded if necessary – and the product still has a beautiful original shade. Lunawood is durable and does not require maintenance to withstand time.

## HANDLING

Extra care must be taken during handling and installation so as not to damage the factory finish of the boards. Therefore, sorting of the boards should be done with support from both ends or the middle. The same care must be taken during transfer.

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Further information can be found at [LUNAWOOD.COM](http://LUNAWOOD.COM)

