

ROYAL HOME DECO

LUNAWOOD®  
MADE IN FINLAND

DECKING

CLADDING

INTERIOR



#### LUNAWOOD® THERMOWOOD

The thermal modification process of THERMOWOOD utilises only high temperatures (between 190 and °212C) and steam. Therefore the end-product is completely natural and chemical free. It can safely be burned or recycled after its long service life (Nordic Ecolabel).

#### THE RESULT OF THERMAL MODIFICATION: DURABLE AND STABLE WOOD

#### IMPROVED DURABILITY AGAINST DECAY

Due to the breakdown of the hemicellulose (sugar chains) the wood no longer contains sufficient nutritional substance to support decay-causing fungi (KOMO).

#### IMPROVED DIMENSIONAL STABILITY

The equilibrium moisture content of wood reduces as a result of thermal modification and ThermoWood becomes hydrophobic meaning that it does not absorb water easily. This improves its dimensional stability and thermal insulation properties.

#### RESIN IS REMOVED IN THE PROCESS

#### LUNAWOOD® IS A STERILE PURE PRODUCT

Bacteria are killed resulting in a sterile material. Harmful emissions, such as formaldehydes, are eliminated which makes THERMOWOOD pure and safe for indoor and outdoor use.



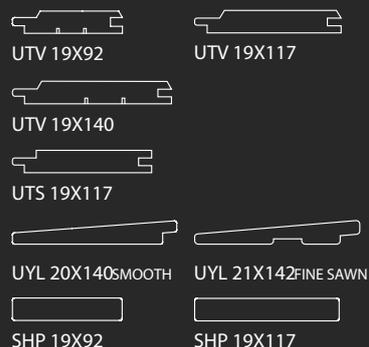
## EXTERIOR CLADDINGS

Dimensionally stable and durable Thermowood is an outstanding choice for exterior claddings and facades. Thermowood allows Scandinavian softwood to be successfully used in hot and humid weather conditions. In addition all our cladding products have the European conformity mark, the CE – mark.

Also our product range provides wide cladding boards produced by utilising glue lamination technology. Thanks to thermal modification and gluing we are able to offer 210 mm wide sound knotted durable cladding boards with outstanding dimensional stability.

### EXTERIOR CLADDING BOARDS

PROFILE	Dimension <sub>(mm)</sub>	Species	class
UTV	19X92	PINE	LUNATHERMO-D
UTV	19X117	PINE	LUNATHERMO-D
UTV	19X140	PINE	LUNATHERMO-D
UTS	19X117	PINE	LUNATHERMO-D
UYL (SMOOTH)	20X140	PINE	LUNATHERMO-D
UYL (FINE SAWN)	21X142	SPRUCE	LUNATHERMO-D
SHP	19X92	PINE	LUNATHERMO-D
SHP	19X117	PINE	LUNATHERMO-D



### LUNALAM CLADDING

PROFILE	Dimension <sub>(mm)</sub>	Species	class
UTS/UTV	19X185	GLUED PINE	LUNATHERMO-D
UTS/UTV	26X210	GLUED PINE	LUNATHERMO-D



### PANEL SYSTEM

PROFILE	Dimension <sub>(mm)</sub>	Species	class
PANEL 68	19X68	PINE	LUNATHERMO-D
PANEL 117	19X117	PINE	LUNATHERMO-D
PANEL 185	19X185	PINE	LUNATHERMO-D



### SOLAR SHADES

PROFILE	Dimension <sub>(mm)</sub>	Species	class
SHP	42X42	PINE	LUNATHERMO-D
HALF PARALLELOGRAM/HSS	28/42X42	PINE	LUNATHERMO-D
PARALLELOGRAM/SSS	20/92	PINE	LUNATHERMO-D
PARALLELOGRAM/SSS	26X68	PINE	LUNATHERMO-D



**FROM  
SUSTAINABLE  
FORESTS**

**THERMO  
WOOD**



**GREAT  
WEATHER  
ENDURANCE**



**NON  
TOXIC  
0%  
CHEMICALS**

**EASY TO  
ASSEMBLE**

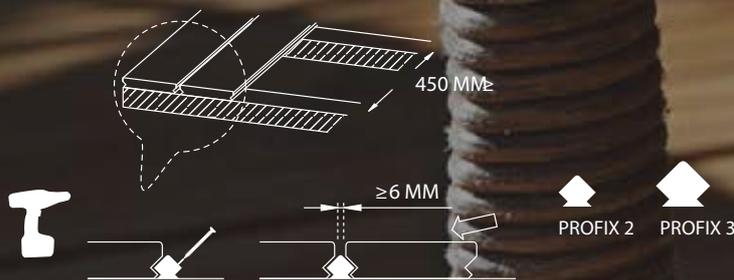


## THERMOWOOD DECKING APPLICATIONS

THERMOWOOD is an outstanding deck material due to its stability and durability. Improved insulation properties make THERMOWOOD an excellent decking material, which balances the changes of heat and cold and makes it pleasant to walk on.

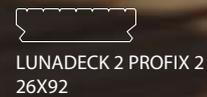
THERMOWOOD decking is resin-free, light-weight and easy to work.

THERMOWOOD unique PROFIX fastening clip enables quick and easy installation of the deck and creates a clean and elegant appearance without visible screws. It is an ecological, durable and chemical-free solution for creating the finishing touch to your home surrounding.



### DECKING BOARDS

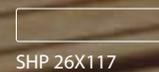
PROFILE	Dimension (mm)	Species	class
LUNADECK 2 PROFIX 2	26X92	PINE	LUNATHERMO-D
LUNADECK 2 PROFIX 2	26X117	PINE	LUNATHERMO-D
SHP	26X117	PINE	LUNATHERMO-D
SHP PROFIX 2	26X117	PINE	LUNATHERMO-D
SHP PROFIX 2	26X140	PINE	LUNATHERMO-D



LUNADECK 2 PROFIX 2  
26X92



LUNADECK 2 PROFIX 2  
26X117



SHP 26X117



SHP PROFIX 2  
26X117



SHP PROFIX 2  
26X140

### CONSTRUCTION

PROFILE	Dimension (mm)	Species	class
SHP	42X68	PINE	LUNATHERMO-D
SHP	42X92	PINE	LUNATHERMO-D
SHP	42X140	PINE	LUNATHERMO-D
LUNAPOST	88X88	GLUED PINE	LUNATHERMO-D



SHP 42X68



SHP 42X92



SHP 42X140



LUNAPOST 88X88

# GOOD TO KNOW ABOUT THERMOWOOD

## DURABILITY

Thermowood belonging to high grade durability class has a projected service life of 30+ years when resistance to decay is considered (BRE). This applies to exterior cladding and decking applications. However the decking material is subject to surface wear and loading which decreases the reasonable expected service life to 15–20 years. Thermowood is not recommended for use in direct contact with ground.

## EQUILIBRIUM MOISTURE CONTENT

After the thermal process the equilibrium moisture content of Thermowood is 5 % (+/- 2%). In outdoor use (+20 Celsius, RH 85 %) the equilibrium moisture content of Thermowood pine stabilizes at 10 % (EN 13183).

# INSTALLATION

## DECKING

When building a deck it is always recommended to keep the deck off the ground to improve the air circulation below. The gap between the boards should be at least 6 mm to secure air ventilation and promote drainage of rain water. Any gap next to an adjoining wall should be at least 6 mm and the gap between two board ends should be 1-2 mm to allow for any movement.

## CLADDING

In claddings, ventilation should be provided behind the boards (22–25 mm). Please also note that there should be at least 30 cm between the ground and lower edge of the cladding. Screws or nails can be used for mounting. They need to be of stainless steel.



# SURFACE TREATMENT

## OUTDOORS

Thermowood should be surface treated before installation or immediately after installation if the beautiful brown colour is to be retained. The surface colour can be retained by treating the boards with tinted/pigmented wood oil, wax, wood-protecting stain, varnish or paint, which contains a UV filter. The surface treatment can be applied either before or immediately after installation using only a thin coat. Any excess should be wiped off. However one should always follow the manufacturer's recommended guidelines.

The surface treatment should be renewed as necessary. The need for re-treating varies depending on the climate, amount of usage and the degree of exposure to UV light. With painted untreated wood the typical interval between maintenance is approximately 5 years. With ThermoWood the maintenance interval in painting can be greatly extended, possibly three times longer than usual. By using a more stable material considerable costs can be saved in cladding and decking, taking into consideration the entire lifespan of the product.





# LUNACOMP

PROVEN ENDURANCE

**LUNACOMP-THERMOWOOD COMPOSITE**

**200 PERCENT . THERMOWOOD  
THE BEST CHOICE**

**SUPERIOR DIMENSIONAL STABILITY  
FROM YEAR TO YEAR.**

Royal Grand Star GT. Exclusive distributor  
of LUNACOMP in Gcc

MADE IN FINLAND



## **LUNACOMP (HOLDS ITS SHAPE)**

It is important in construction to have confidence in the materials used. Due to its unique composition LunaComp is the most stable wood composite decking available in the market. LunaComp contains Thermowood fibres that are more stable than un-modified timber.

In the manufacturing process heat modified wood fibres are compressed and blended with high quality Polymers. The resulting product is 200 % Thermowood as there is more Thermowood in LunaComp than in the solid wood of the same dimension! The density of LunaComp is about triple compared to the density of Nordic pine. 2/3 of LunaComp are Thermowood fibre.

The combination of Thermowood and high quality Polymers give LunaComp a durable and water resistant finish. LunaComp is eco-friendly as the Thermowood fibres used are a recycled by-product of our sister company Lunawood. LunaComp is also PVC free, non-toxic and off cuts can be burnt or recycled.

**DURABLE** – No nutrients or resin so no wood-rotting fungi

**DIMENSIONALLY STABLE** – Minimal thermal expansion:

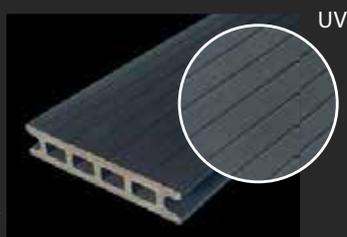
1 mm/m, -30°C/+30°C

**ECO-FRIENDLY**, and non-toxic during its lifecycle

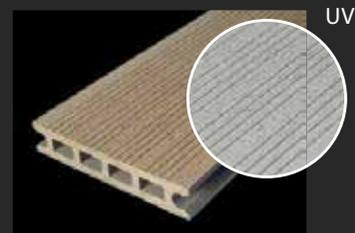
## LUNACOMP OPTIONS

LunaComp-decking is available in three stylish colours: Graphite Grey, Silver Grey and Mocha Brown.

### GRAPHITE GREY



### SILVER GREY



### MOCHA BROWN



## TECHNICAL DETAILS AND PROFILES

The hollow structure can conceal cables for lighting and heating systems. A solid profile is also available by special order.

Product, mm	Profile	Colour	Pcs/ package	Running metres/ package	m <sup>2</sup> / package	Length	Weight kg/m	Total weight/ package	Running metres/m <sup>2</sup>
LC Deck 26x140 mm		Graphite Grey	84	336	48	4 m	2,8	1 050	6,85 m
LC Deck 26x140 mm		Silver Grey	84	336	48	4 m	2,8	1 050	6,85 m
LC Deck 26x140 mm		Mocha Brown	84	336	48	4 m	2,8	1 050	6,85 m

Order Product, mm	Profile	Colour	Pcs/ package	Running metres/ package	m <sup>2</sup> / package	Length	Weight kg/m	Total weight/ package	Running metres/m <sup>2</sup>
LC Deck 26x140 mm		Ask for a project quote from your local LunaComp representative. Project lengths available up to 8,5 m.							
LC Deck, Solid 26x140 mm		Graphite Grey	84	336	48	4 m	4	1 500	6,85 m
LC Deck, Solid 26x140 mm		Silver Grey	84	336	48	4 m	4	1 500	6,85 m
LC Deck, Solid 26x140 mm		Mocha Brown	84	336	48	4 m	4	1 500	6,85 m

You can complete your LunaComp deck using the specially designed FastClips, Side and Angle Frame Strips and EndCaps available.



## LUNACOMP USES

- Decks and terraces for homes and holiday homes
  - Balconies
  - Piers
  - Stairs, surfaces, fences etc.
  - Public spaces; decks and terraces
  - Spas, pool areas
  - Multi-functional spaces
- Flexible partner for project customers.



DIMENSIONALLY  
STABLE



ECO-FRIENDLY



NON-TOXIC –  
NO PVC



MORE WOOD  
THAN IN WOOD



GREAT WEATHER  
ENDURANCE



EASY  
TO BUILD



## ROYAL HOME DECO

Royal Grand Star General Trading LLC is an innovative designer and manufacturer of decorative building materials solution in GCC under name of Royal Home Deco brand to cooperate with interior designers, architects and construction companies to realize their extraordinary ideas in the space with wide range of products and selections. The key for our company is maintained providing the first class quality products, delivery order in time, and high responsibility.

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(Engineered, Esthetic, Excellence)  
Exclusive distributor of LUNAWOOD® & LUNACOMP® in Gcc

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