



LUNAWOOD

Surface treatment



# Surface treatments

- Lunawood Thermowood can be surface treated with the same high-quality paints, wood-oils, waxes and varnishes that are suitable for un-modified wood
- Linseed oil is not recommended because it enables fungal growth
- In sauna and spa environments, paraffine oil is recommended to ensure high level of hygiene
- To maintain the original brown colour of Lunawood Thermowood, surface treatment is necessary
- 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.





# Lunawood - Excellent basis for various coatings

## Dimensionally stable

- Dimensionally stable  
Lunawood Thermowood creates solid basis for surface treatment
- No cupping / cracking
- Paint or any other coating applied to it does not crack
- Secures durable life cycle for surface treatment agents

## Resin free

- Lunawood Thermowood does not secret any resin through the paint
- Allows Thermowood to be treated into white or lighter colour -> no yellow patches on the board
- Ensures long life cycle for the coating

## Durable

- High durability of Lunawood Thermowood creates also a durable basis for surface treatments
- High quality coating increases the durability even more
- Only weather exposed surface might be coated



# Checklist before surface treatment

- Climate
- Shape of the profile – radius on the edges
- Surface texture
  - Plained
  - Brushed
  - Micro grooved
  - Sanded
- Method of application
- The end result depends on the type and amount of wood finish as well as the roughness, color and porosity of wood surface. Always make a trial application.
- Lunawood is darker than wood commonly used in color samples





# Application

- The surface treatment can be applied either before or immediately after installation
- Factory coating is recommended to ensure even colour between boards
- Lunawood Thermowood does not absorb paint, stain or oil as much as un-modified wood
- Application is recommended only in thin layers
- Lunawood Thermowood does not require four side treatment
- Only weather exposed surface might be coated
- Saw ends are recommended to be sealed



Villa Vuurlijn, Netherlands  
Architect: Hoogeveen Architecten



Surface Treatment  
Colour pigmented and UV protected stain

Forum Braga, Portugal  
Architect: Barbosa and Guimarães Architects







Surface Treatment  
Ebony stain – RAL 9005, vacuum-coated

Eaton Socon Preschool, United Kingdom  
Architect: Millworks Ltd and Devlin Architects



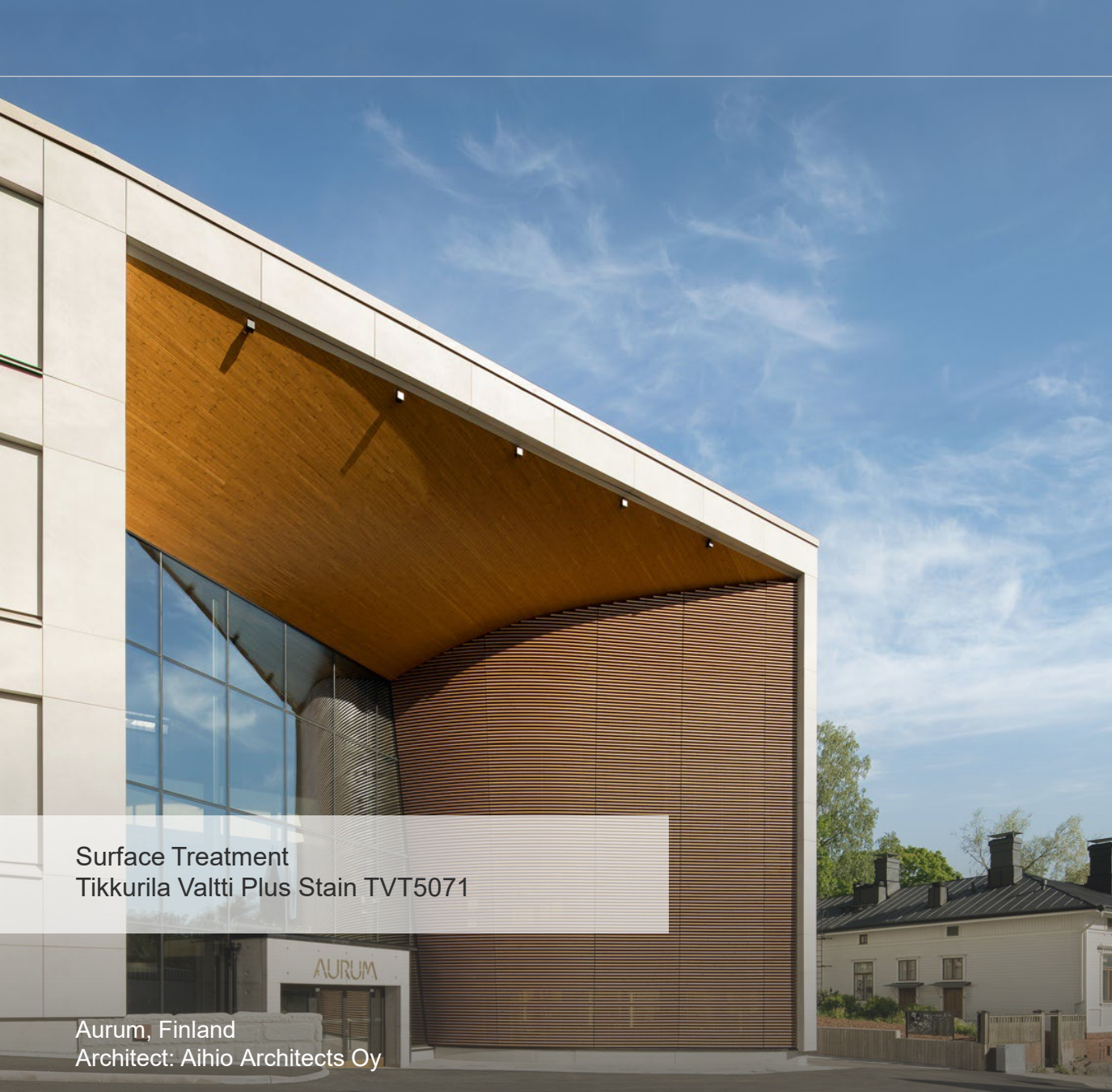




Surface Treatment  
Rubio Monocoat WoodCream - Black

Sassen Residence, South Africa  
Architect: SALT architect





Surface Treatment  
Tikkurila Valtti Plus Stain TVT5071

Aurum, Finland  
Architect: Aihio Architects Oy







Surface Treatment  
Tikkurila Valtti Plus Stain TVT5071

Private House, Finland  
Architect: Design talot & Jussi Vartiainen



**Surface Treatment**

Tikkurila Pinja Color Plus - 5071

Jämerä Salmiakki, Finland  
Architect: Kirsi Lehtonen





Basisschool  
Het Epos

**Surface Treatment**  
Sherwin Williams – LS10-100

Het Epos Primary School, Netherlands  
Architect: SeArch, Bjarne Mastenbroek



**Surface Treatment**  
Drywood Woodstain VV Ebony

Holiday Park Meer Van Eysinga, Netherlands  
Architect: Penta Architects



**Surface Treatment**

Drywood Woodstain VV Ebony

Nieuw Boekenroode, Netherlands  
Architect: HeikoHulsker & Partners







LUNAWOOD

Mastering the Greying process



# Benefits of pre-greying

- Installation ready grey colour
- For a projects where UV radiation of the sun doesn't reach to all facades or ceilings
- Creates uniform colour throughout the building when silver colour is required
- Kick-start for the natural greying process
  - Wood will turn grey under the pre-greyed paint
- No need for re-application
- Suitable pre-greying options:
  - Luna Arctic pre-greying
  - SiOO:X
  - Rubio Monocoat WoodCream
  - Keim Lignosil Verano 4880



Private House, Spain  
Architect: Salamandra Interiorismo



# Luna Arctic

- Luna Arctic is acrylic based and water-borne translucent coating
- It provides pre-greyed surface for Lunawood ThermoWood® products
- Suitable for indoor, outdoor and sauna
- Coating degrades over the years revealing naturally greyed wood (5-10 years)
- No maintenance needed
- Only for industrial application
- Only for brushed surface
- Non compatible with Fire Retardant!

## Datasheet - Luna Arctic

<b>Product name:</b>	Luna Arctic
<b>Product description:</b>	Luna Arctic is acrylic based and water-borne translucent coating. It provides pre-greyed surface for Lunawood ThermoWood® products. Coating degrades over the years revealing naturally greyed wood. No maintenance needed. Only for industrial application.
<b>End-use applications:</b>	Outdoor cladding, interior panelling, sauna and spa environments.
<b>Universal colour codes:</b>	NCS S 4502 R, RAL 7036 *
<b>Disposal:</b>	Follow your local guidelines when recycling coated wood product.

\* These colour codes, suitable for acrylic based opaque paints, are tested to share similar colour scheme than Luna Arctic. However, an opaque paint is never identical to translucent coating like Luna Arctic.



[lunawood.com](http://lunawood.com)

 LUNAWOOD





# Luna Arctic Products

	Product name	Species	Length (m)	m / m <sup>2</sup>
	Luna Arctic Layer 19x142 Brushed	Nordic Spruce	3,6–5,1	7,46 m
	Luna Arctic Layer 19x188 Brushed	Nordic Spruce	3,6–5,4	5,55 m
	Luna Arctic SHP 19x92 Brushed	Nordic Pine	3,0 / 3,6–4,5	
	Luna Arctic SHP 19x117 Brushed	Nordic Pine	3,0 / 3,6–5,1	
	Luna Arctic Triple 32x140 Brushed	Nordic Spruce	3,6–5,4	7,57 m

Photo: Luna Arctic Triple 32x140







# How to maintain the original brown colour?

- The original caramel brown colour of Lunawood Thermowood can be maintained with **UV protected and colour pigmented** surface treatment
- Recommended colour codes:
  - Tikkurila TVT5051
  - Tikkurila TVT5071
  - Owatrol Aquadecks - Honey
- Expected maintenance period depends of the selected surface treatment agent might varie between 1-8 years
- Spraying method is recommended

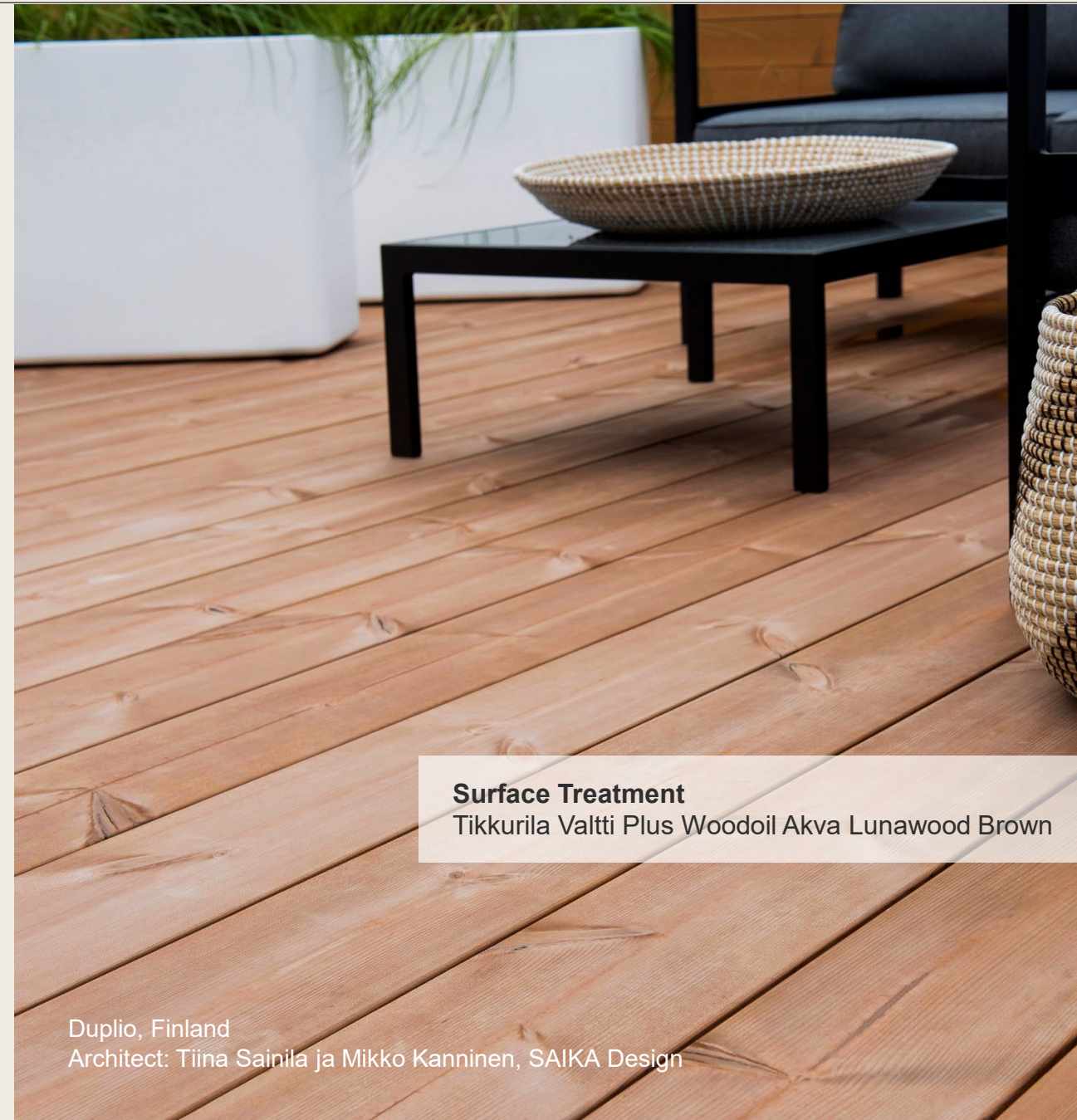


Private House, Finland  
Architect: Design talot & Jussi Vartiainen



# Lunawood Thermowood decking

- Decking is more affected by weather due to horizontal application
- Effect of UV radiation is higher compared to facade and thus greying process is faster
- Oiling is recommended to help keep the decking clean (e.g. black spots)
  - Available with UV filter
- Natural caramel brown colour of Lunawood Thermowood can be retained with colour pigmented and UV protected wood oils
- Recommended application method: sponge



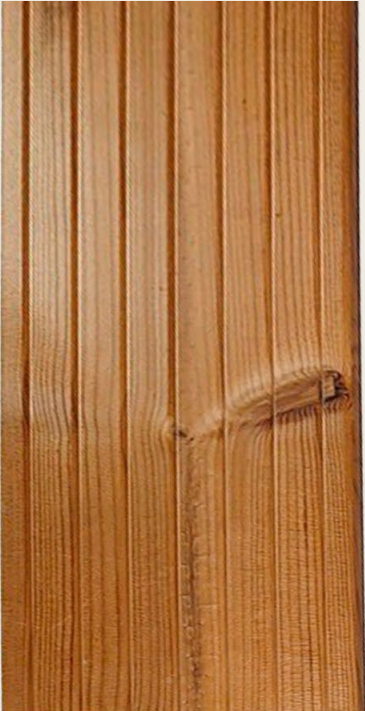
## Surface Treatment

Tikkurila Valtti Plus Woodoil Akva Lunawood Brown

Duplio, Finland  
Architect: Tiina Sainila ja Mikko Kanninen, SAIKA Design



# Surface treatment for Lunawood decking



Lunawood  
Untreated



Tikkurila Valtti  
Woodoil akva  
TVT 5051



Tikkurila Valtti  
Woodoil akva  
TVT 5071



Tikkurila Valtti  
Woodoil akva  
Lunawood brown



# Lighter colours

- Lunawood Thermowood can be treated into more lighter colour or completely into white
- Recommended surface treatment product for interior:
  - Osmo Colour, Matt Snow
  - Rubio Monocoat oils (0% VOC)
- Darkish caramel brown colour might require multiple layers to achieve white or very light colour
- 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
- Test paint is always recommended



**Surface Treatment**  
Osmo Colour Wood Wax – Matt Snow

Four Houses, Portugal  
Architect: PROD Arquitectura & Design



# Fire Protection

- Using pressure impregnation method, Lunawood Thermowood can be fire protected to achieve the required EN13501 fire class B
- Products that achieve the fire class **B-s1,d0**
  - Plained, flat T&G profiles
- Products that achieve the fire class **B-s2,d0**
  - Lunawood 3D profiles
- Fire protection does not effect to the visual appearance of Lunawood Thermowood
- Painted fire protected products are also available
  - Painting must be done by a CE-certified painter e.g. not at the construction site
- Painting affects to smoke production s1 → s2



## Surface Treatment

Fire protected Lunawood after 3 years

Himmelbyen, Denmark  
Architect: The Seasons



# Fire retardant and surface treated Lunawood

## Lunawood offers also painted fire protected products

- Painting must be done by a CE-certified painter e.g., not at the building site
- CE-certified painting process enables maintaining fire class after industrial painting by Lunawood's subcontractor **Icoma Oy in Finland**

## Full documentation + maintenance scheme provided

- All documentation is shared to guarantee the fire class after impregnation + painting, including what maintenance that needs to be done over time

Available in black and pre-greyed colours

**IMPORTANT NOTE:** Anything you add to the wood surface could change the fire rating and thus solution needs to be tested separately





# Summary

- ✓ Lunawood Thermowood can be surface treated with the same high-quality paints, wood-oils, waxes and varnishes that are suitable for un-modified wood
- ✓ Linseed oil is not recommended because it enables fungal growth
- ✓ Lunawood creates durable and dimensionally stable basis for various coatings
- ✓ Factory coating is recommended to ensure uniform colour
- ✓ Lunawood is darker than wood commonly used in colour samples
- ✓ Test paint is always recommended



# Find more inspiration on Social Media

