

HATTCO

Since 1998
Made In Taiwan

HATTCO

Engineered Floor

17/F, Yue On Commercial Building, 385-387 Lockhart Road, Wanchai, Hong Kong

Office: (852) 2388 3938 | Fax: (852) 2374 3939 | Email: sales@karlianintl.com | Website: www.karlianintl.com

floor covering perfection



CONNECT TO NATURE

environmentally friendly.

HATTCO focuses on high quality of wooden floor. It adheres to strict guidelines to each piece of wood, which must pass many stringent tests and procedures before production.

ONLY FLOORS MADE WITH WOOD

Hattco floors result from the experience of highly skilled craftsmen, who turn wood from different corners of the world into a floor. Hattco floors stem from years of research and constant innovation by a company that has always looked after changing market requirements, ready to design new finishes in line with the needs of even the most demanding people.

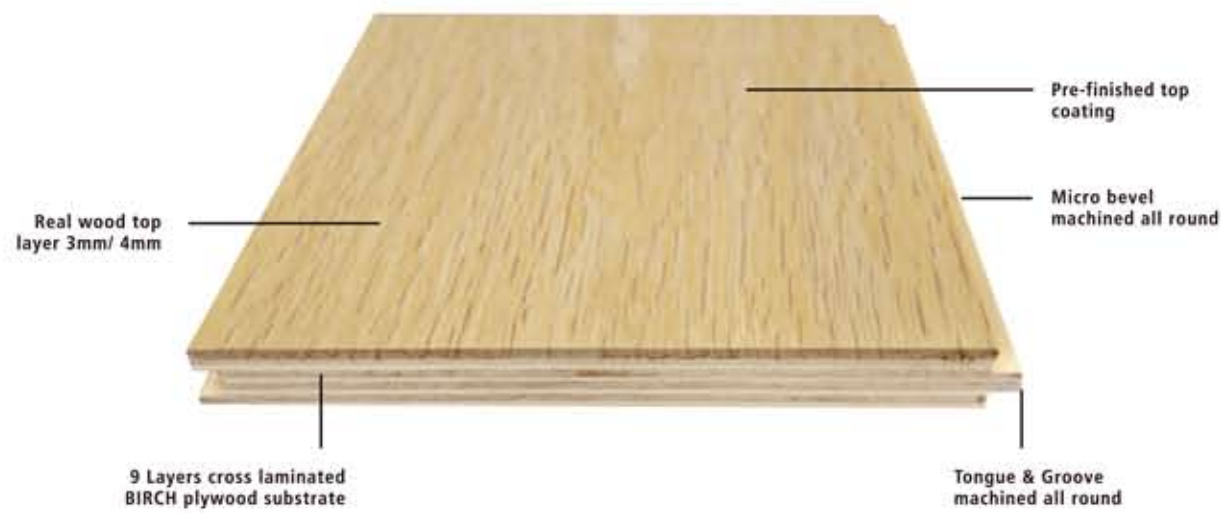
EXPERIENCE AND FLEXIBILITY

Hattco is a brand specialising in the production of two layer wooden floors, which are made of different types of wood, selected in the areas of origin and mainly coming from plantations. They are accured various wooden layers are assembled with ecological glues. The performed treatment responds to the increasing need using natural oils and waxes which give the wooden floor the traditional smooth and warm aspect.



HATTCO

Note: The above performance applying to specific product only



BIRCH PLYWOOD

2 layers wood construction

SPECIFICATION

Series: Loft	Series: Maxi
Thickness: 14mm	Thickness: 18mm
Width: 150mm	Width: 210/ 240mm
Length: Random Length	Length: Random Length
Top Layer: 3mm	Top Layer: 4mm



MARITIME COMPOSITE PLYWOOD

2 layers wood construction

SPECIFICATION

Series: Trend
Thickness: 17mm
Width: 180mm
Length: Random Length
Top Layer: 3mm

3 reasons to choose BIRCH

1. With 9 layers of Birch plywood cross graining lamination making it very stable
2. Suitable for dry or humid condition
3. Rigid & tough against warping

4 reasons to choose MARITIME COMPOSITE

1. It composes of 7 layers of plywood by pressing 1 layer of Larch and 1 layer of Radiata Pine plywood together alternatively with extremely high pressure. This making it very strong & rigid, and had excellent performance against moisture and humid condition.
2. It could be used at outdoor construction wall as well.
3. It also has the smell of turpentine and making it has resistant against insects & ants.
4. 3mm thick selected timber top layer providing natural beauty of wood.



FORMAT

1. Allegro Series

Dimension
 Width: 70/ 90mm
 Length: 450-900mm
 Thickness: 14mm

2. Prestige Series

Dimension
 Width: 121mm
 Length: RL
 Thickness: 14mm

3. Loft Series

Dimension
 Width: 150mm
 Length: RL
 Thickness: 14mm

4. Trend Series

Dimension
 Width: 180mm
 Length: RL
 Thickness: 17mm

5. Maxi Series

Dimension
 Width: 210/ 240mm
 Length: RL
 Thickness: 18mm

How to decide on your wooden floor's thickness?

Use plank flooring as the centerpiece of your space. The width of the individual board will have a dramatic influence on the look of your floor and the overall design of your home.

Plank Flooring Options

Plank floors usually mean the boards that over than 121mm (Herringbone pattern is 70mm/ 90mm width - details see "Designer Series") and the largest width is 240mm; or even wider as use in the square tile/ wall/ custom made items (details see "Designer Series").





Oak is a hard and durable wood and suitable for almost any kind of interior. It allows us to create wide range of colour to match with numerous kind of furnishing material.





BLACK BEAUTY - THE ATTRACTION OF CONTRASTS

A black & dark red floor creates a strong statement in an interior. No matter what your style is - be it tradition or modern - the impression will be elegant.

Smoked Oak has the same performance and characteristics as Oak do. After undergoing the smoked process, the wood changes from original colour to medium or very dark colour tone. You could sand it many time without losing its original colour and characteristics.



Smoked Oak (Light)
Classic White Wash Plan
(B-L) Decape WB UV Oil



Smoked Oak Select
Natural Colour BR(M)
Waterbase Oil



Smoked Oak (M-L)
Select Burgundy White
Wash BR(M) WB Wax
Oil - Dark



Smoked Oak (M-L) Select
Burgundy White Wash
BR(M) WB Wax Oil - Light

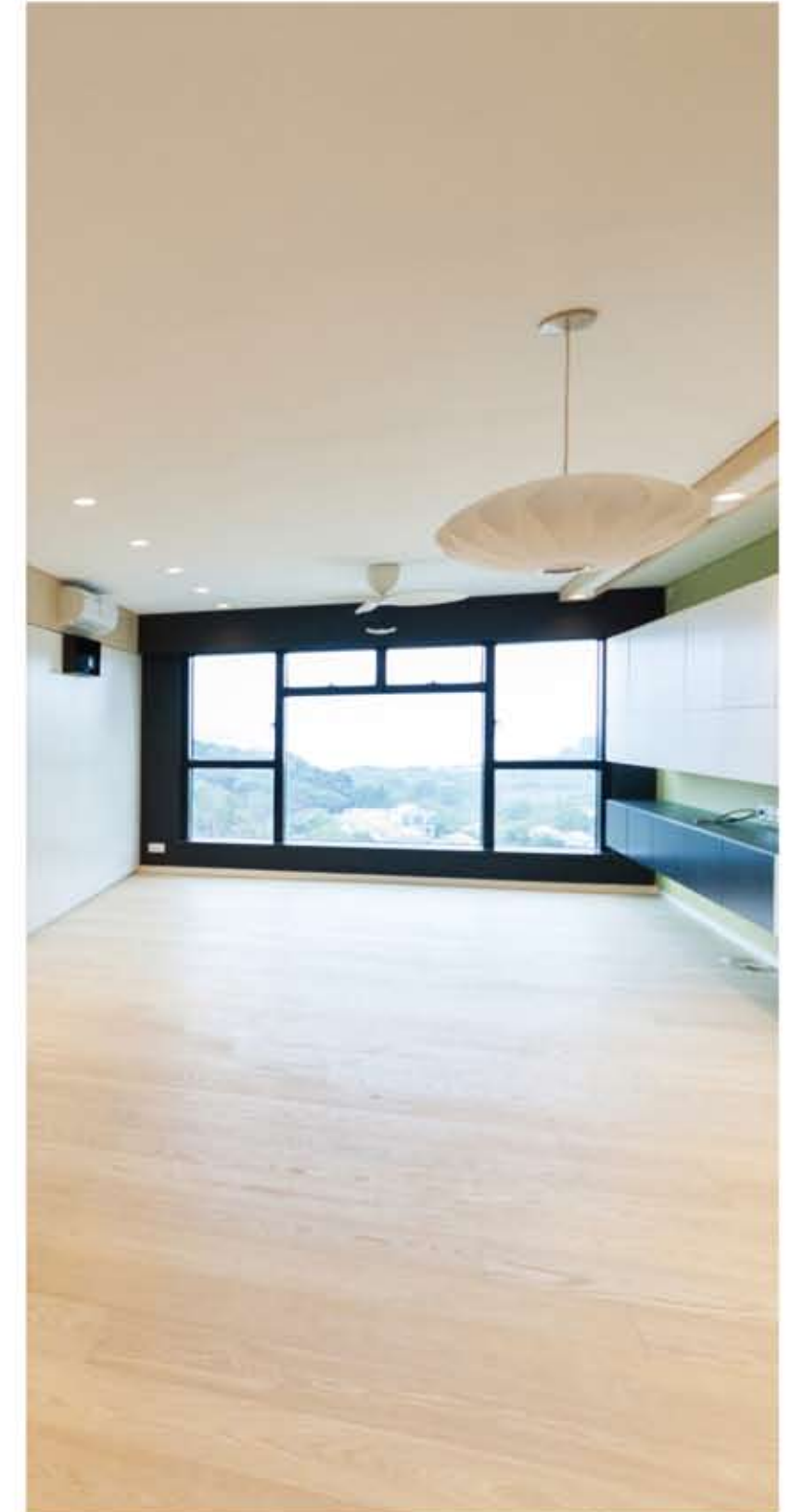


Smoked Oak Select
Brown Colour (SC) Open
Pore WB UV Oil



Ash It is one the very best woods for bending. After brushing, it provides a very rich structure and colour along the veins.

It gives the floor entirely unique and lively character. It is cream white to light brown, sometimes with a sound dark brown for the part close to the heartwood.



Ash Select Polar White
Open Pore WB UV Oil



Ash Select Pervinca White
Wash Plan (B-L) WB Wax Oil



Ash Select Silky White
BR(M) WB Wax Oil



Ash Select Light Grey
Open Pore WB UV Oil



Ash Select Black Green
BR(M) WB UV Oil



Ash Select Pure White Plan
(B-L) WB Wax Oil



Ash Select Gray Light
BR(M) WB UV Oil



Walnut Light XUV



Walnut Rustic Oil



Walnut LWA XUV



Teak LTE XUV



Teak (Burma) Brushed Wax Oil



Teak (Indo) Limewashed Open Pore WB UV Oil

Teak
A uniform golden brown colour with darker chocolate - brown markings. It is very durable and extensively used for ship and boat building for decking.

BROWN - COLOUR YOUR HOME WITH BROWN FLOOR

The Brown & Reddish Brown will create a space feel more grounded. Its shade will contribute to an cosy feeling.

WALNUT A dark, exclusive wood with a sapwood that is creamy white but the heartwood is a light brown to dark chocolate brown, sometimes with a tendency to purple. The wood gains a special lustre over the years.

GRADING OF WOOD

All Hattco floor available in Select, Classic and Rustic Grade.



Select Grade

The select grade is with even-colour and uniform surface. It has minimal and tiny knots only.

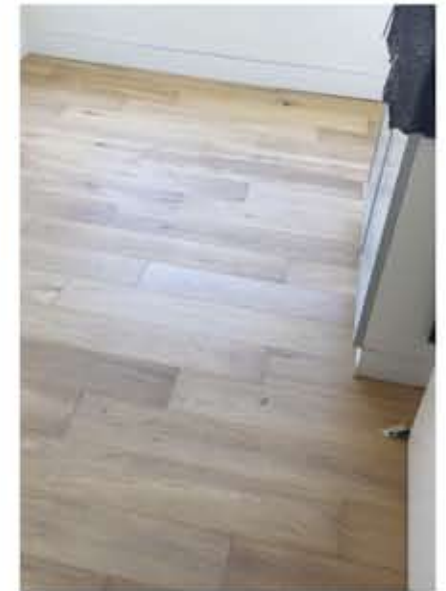
Classic Grade

The classic grade has more natural characteristics such as knots, sapwood and colour variation. It is chosen because of these natural feature they bring to a room.



Rustic Grade

The rustic grade has the strongest colour and grain structure. It includes big cracks and knots and strong contrast of colour shading. The knots and cracks may be colour filled with selected colour filler.



How To Choose Grain Structure

The wood floor surface of the selected grade will give a clean, tidy and uniform look with elegant atmosphere.

The bigger the knots and cracks on wood floor surface will create a country and vintage feeling of which someone were prefer.



SURFACE TREATMENT OF WOOD FLOORING

Most of wood can be surface treated normally. The surface treatment for the wood is aim at increase the durability and use for decorative purposes. Different surface treatment represents its own natural and designs. The coat of varnish applied to it can be obtained by smooth-planing it or by brushing the surface. Recently, the sawn cut surface is also well suited and mature for the surface treatment.



SANDED

The beauty of simplicity is exalted by hand planing the wood to give the surface a smooth touch and uniform appearance. Pre-sanded surfaces are ideal for finishes with neutral varnish and neutral tinted wax oil.



BRUSHED

Special brushes that delicately remove that the softest part of the wooden surface are used to reveal the natural grain without spoiling the fibers. A huge advantage of brushed and lacquered flooring is that because the surface is brushed any scratches won't be as apparent to the naked eye.



HAND PLANNED

This skillful treatment is still preformed by the hands of master craftsmen. Small planes are used to create a slightly gouged irregular surface that gives an antique, rustic touch. The treatment is very famous in USA and Europe.



SAWN CUT

By revisiting traditional processes using old saws we have created a textured finish that enhances the roughness. Grooves and stripes typical of hand-sawn cut wooden boards are suitable.

Upon the designer or clients' request, we could apply or mix the above surface treatment on the same surface of wood, in order to create the wood texture needed.

SURFACE COATING OF WOOD FLOORING

Hattco offers the wood flooring with Wax oil, UV oil and XUV surface coating for selection. Different site and condition may consider to use different kind of coating. Each of coating has their characteristics and advantages:

Wax Oil

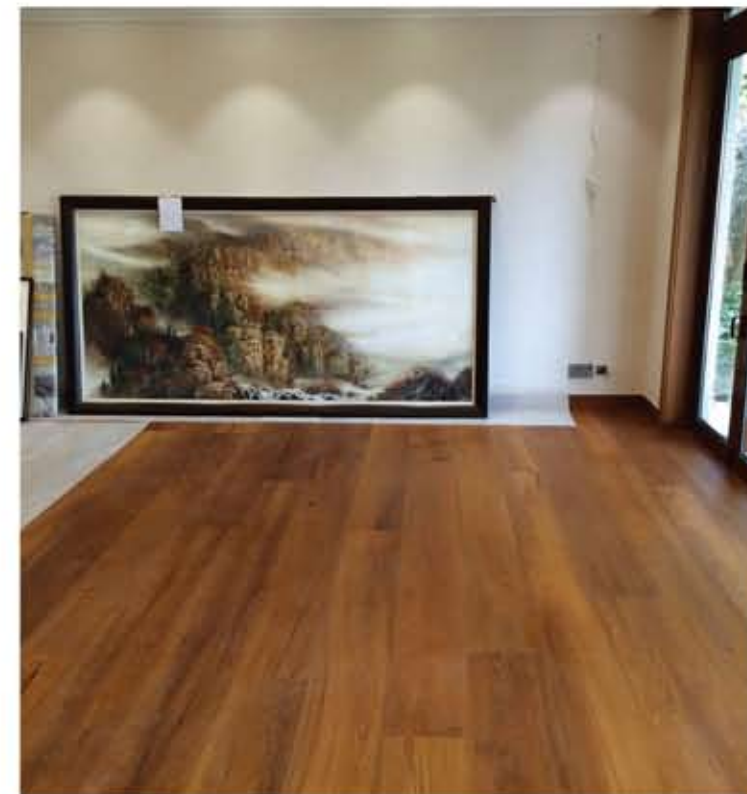
Provides wear resistant for general domestic and commercial traffic used. It brings out the natural texture and beauty of wood. This coating could last for very long time and the maintenance and care is very easy.

UV Oil

Special & newly developed UV oil coating's formula protects the wood flooring from water, wine, and cola spills in addition to other stubborn stains; all the while maintaining and displaying the natural beauty of the covered flooring.

XUV

Contains Aluminum Oxide ingredient complying to ASTM(USA) D4060-10 standard achieving wear resistance 10,000 revolutions providing a hard wearing surface. It also provides the sealed surface to protect the wood against wear and tear for heavy traffic.



HERRINGBONE PATTERN

90° Herringbone Pattern



45° Herringbone Pattern



Wood Species Ash, Oak, Smoked Oak, Teak, Walnut

Dimension
 70mm (w) x 14mm (tk) x 450/600mm (l)
 90mm (w) x 14mm (tk) x 450/600mm (l)
 121mm (w) x 14mm (tk) x 450/600/750mm (l)
 150mm (w) x 14/17mm (tk) x 750/900mm (l)
 180mm (w) x 17mm (tk) x 900/1200mm (l)
 Custom size also available upon request

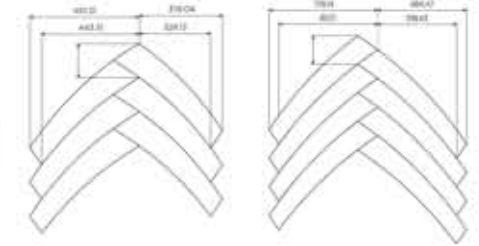
Crescent Herringbone Pattern



Dimension As shown

Surface Coating Wax Oil/ UV Oil

Surface Treatment
 Not recommend too heavy
 brushed and no hand planning
 for surface treatment available

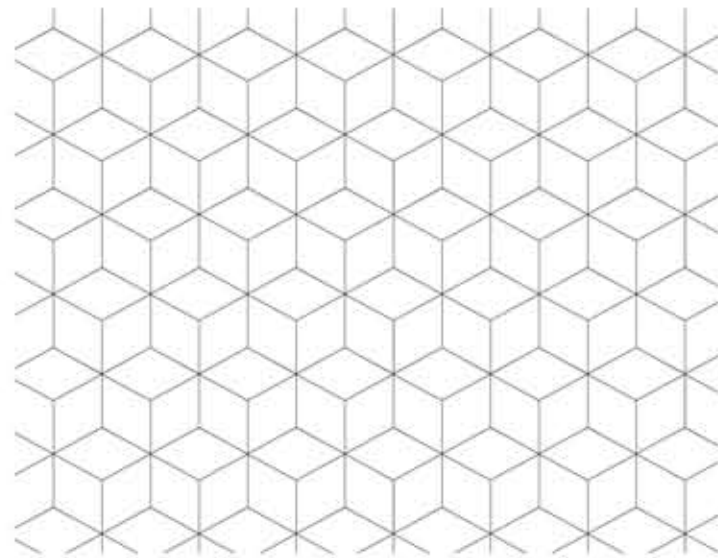


HEXAGONAL PATTERN

Dimension Vary according to different module
 Surface Coating Wax Oil/ UV Oil
 Surface Treatment Not recommend too heavy brushed and no hand planning for surface treatment available



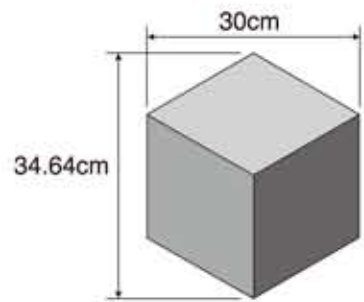
3D CUBE PATTERN



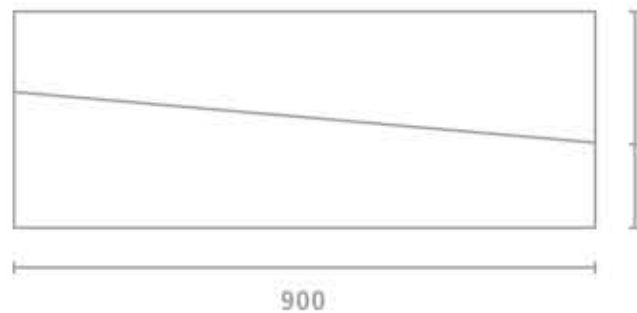
Dimension
346.4mm (h) x 15mm (tk) x 300mm (l)

Surface Coating
Wax Oil/ UV Oil

Surface Treatment
Not recommend too heavy
brushed and no hand
planning for surface
treatment available



TRAPEZIUM PATTERN



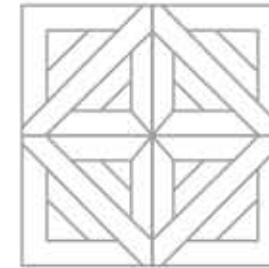
Dimension
130/190(w) x 17(tk) x 900(l)mm

Surface Coating
Wax Oil/ UV Oil

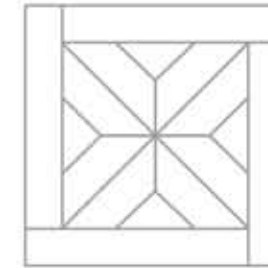
Surface Treatment
Not recommend too heavy
brushed and no hand planning
for surface treatment available

SQUARE TILE

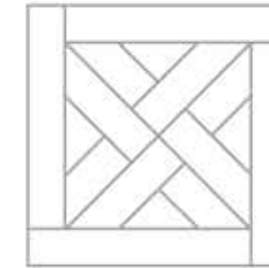
- Sustainability - European Style - Decorative - Available for custom made upon request



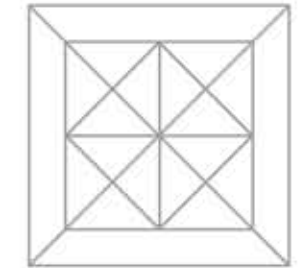
MOD SPINOLA



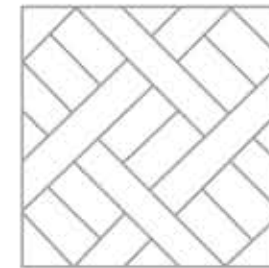
MOD FOSCARI



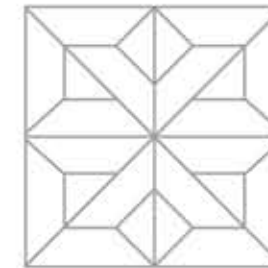
MOD SIGNORIA



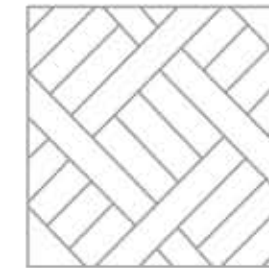
MOD GHELLINI



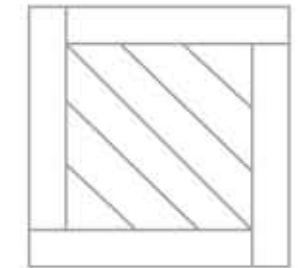
MOD BARBARO



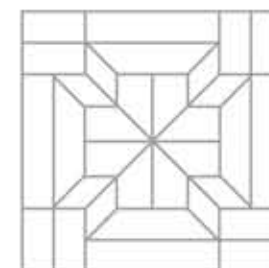
MOD VALMARANA



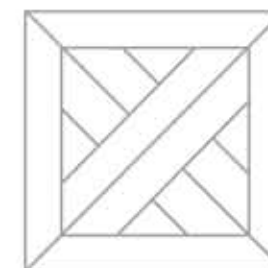
MOD LA ROCCA



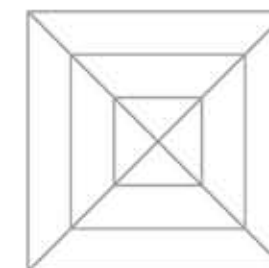
MOD GIUSTI



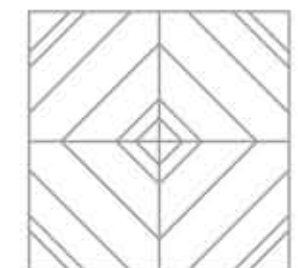
MOD CONTARINI



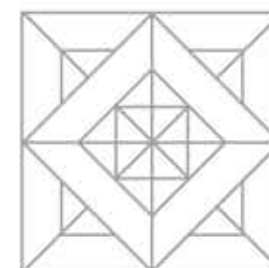
MOD VENEZIA



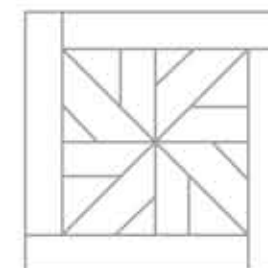
MOD MANIN



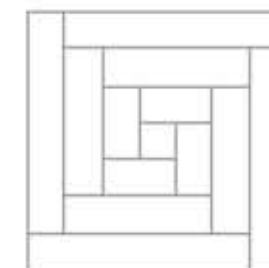
MOD MOROSINI



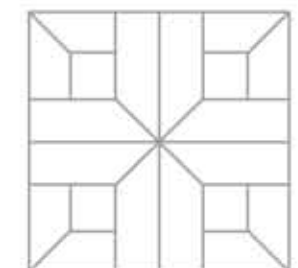
MOD GRIMANI



MOD CHIERICATI



MOD SEREGO



MOD CORNARO

The patterns shown are some of standard design. Client could provide special pattern design and selection of wood, factory will do whatever possible to fulfill the dream.

WALL & CABINET PANEL



Oak

Smoked Oak

Walnut

Wood Species
Oak, Smoked Oak, Walnut

Surface Treatment
Sanded or Brushed

Surface Coating
- Unfinished (no coating could apply)
- Pre-finished (Oil/ UV Oil)

Size
100mm (w) x 8.5mm (tk) x 2424mm (l)
124mm (w) x 8.5mm (tk) x 2424mm (l)
164mm (w) x 8.5mm (tk) x 2424mm (l)
194mm (w) x 8.5mm (tk) x 2424mm (l)
605mm (w) x 8.5mm (tk) x 2424mm (l)

Oak

Smoked Oak



Walnut

This series of product allowing ceiling, wall and floor using the same material if need to create harmony atmosphere.

The plank board could also use to make door and cabinet panel. You could also make your one big piece of table top in length 2424mm long and with unlimited width to be jointed at site.

CLEANING INSTRUCTION



Steps / Surface Coating	Wax Oil / UV Oil / XUV
Step 1	Arrange your furniture carefully without pushing (risk of scratching)
Step 2	Remove particles with a vacuum cleaner or a brush Protect your parquet against sand, small stones and water
Step 3	Door mats are recommended at entrances
Step 4	Felt pads under chair and table legs prevent scratching
Step 5	Please use the wet mop up to clean the floor and underlay mats
Step 6	

Wax Oil

Dry cleansing: for day to day cleaning you should use either a broom, a vacuum cleaner or dust mop to clean the surface. Regular damp mopping: The 'Wash And Care' concentrate brilliantly removes most day to day stains from your wooden floor. It can be diluted to suit the level of soiling on the surface and applied using a damp mop.

The 'Wash And Care' is a product for natural cleaning and maintenance concentrate for floors – for regular cleaning and care.

UV Oil

Use neutral cleansing agent to wet mop the floor surface and leave it to dry.
If needed, use Hattco maintenance oil to clean and reapply a protective thin layer of oil on the wood floors. Attention should be pay: Don't use the maintenance oil too frequently; if not, the wood floor surface will becoming too slippery.

XUV

Use neutral cleansing agent to wet mop the floor surface and leave it to dry.

GENERAL INSTALLATION

a) Before Installation

1. Care must be taken to ensure the C/S screeding are flat and even.
2. The C/S screeding must be dried and ready to lay pre-finished engineering flooring. It is also had to prevent excess moisture, humidity and water entering the premises either from floor, wall and/ or window, before, during and after fixing.
3. Flooring should send to site of which the flooring is going to lay 3 – 5 days before fixing. So that the flooring could acclimatize the surrounding condition.

b) Installation

1. To lay 1 layer of plastic sheet (DPM) on top of the existing C/S concrete screeding (the C/S screeding must be even and dry) and dress up about 80mm high along the wall and skirting. The plastic sheet should have 200mm overlap with each other.
2. To lay 1 layer of 15lbs bitumen felt on top of above plastic sheet (This layer is NOT a must!)
3. To punch nail on 1 layer 12mm(tk) plywood backing onto existing floor surface with suitable size of concrete nail and firmly fixed the plywood. 6-8mm gap should be allowed between the plywood backing and 10mm expansion gap should be allow along the perimeter of wall.
4. To secrete nail the pre-finished engineered flooring onto the plywood substrate and apply the white glue under the tongue of the pre-finished engineered flooring. This is not a must procedure. But it will surely help the pre-finished engineered floor to prevent the noise occur and wherever the subfloor is not even.
5. Allowing 10-12mm expansion gap along the perimeter of the wall.
6. To remind, the gap allowed as stated above is only a reasonable guideline. If the wood flooring end up absorbing too much moisture from surrounding (ie from floor, wall or air or water flood...etc), it will expand more than the expansion gap allowed.

c) After Installation

After completion, to cover the pre-finished flooring with suitable protective layer. It is suggested to use a layer of 2mm foam sheet plus 5mm thick plywood protection.

Above information is for reference only; all depends on the site decision and environment conditions

INSTALLATION OF UNDERFLOOR HEATING SYSTEM

When the flooring is to be installed in an area with an underfloor heating system, it is necessary to use the nailing down OR glue down method. As well as conferring greater dimensional stability on the floors, the perfect adherence of the wood to the sub-floor guarantees better conduction of heat into the rooms.

When the nailing down OR glue down installation is over an underfloor heating system, it is necessary first of all to make sure that the heating system is one that functions at a low temperature, then that the distance between the wood and the heating pipes or cables embedded in the screed is at no point less than 30 mm, and finally that the contact temperature of the hardwood floor surface will not exceed 26/27°C.

The construction characteristics of the sub-floor must be determined; it must be protected against the possibility of moisture intrusion and must be level, solid, clean and, in the case of concrete slab, have a maximum residual humidity of 1.7% (percentage of water to dry weight).

The Specific Requirements For Wood Floors Over Under Floor Heating.

The floor construction must have a heat-distributing layer that gives a very even temperature across the entire floor area, in order to avoid excessive temperatures near the heat source. The entire living area must be heated. However, this does not apply to comfort heating systems, which complement the normal heating. The temperature in this case is significantly lower than the permitted 27°C at the floor surface. The floor covering (including intermediate layer) should have a low thermal conductivity. It must be possible to control and limit the surface temperature very accurately. The installed floor's temperature must never exceed 27°C. This also applies under carpets and furniture. If the room does not have too many textile floor coverings or particularly thick rugs, it is reasonable to achieve 23°C in the clear floor areas, giving a room temperature of approximately 21°C. The condition, of course, is that the room has normal heating requirements, i.e., it must have normal standards of draught proofing, insulation, window area, ceiling height, etc. Note that the requirement for max. 27°C also applies to pipe runs from bypass groups. A vapour barrier must be built into the floor construction. This should be as close to the wood floor as possible. It is particularly important that the vapour barrier is close to the wood floor if the structural floor is thick or heavy. Under no circumstances must the vapour barrier be on the opposite side of the structural floor. The wood floor must lie tightly to the substrate, without air gaps that may cause substantial drying of the wood. Provided the conditions above are met, both warm water and electrical under floor heating systems are suitable for use with our engineered wood floors.

This brochure covers only a part of our products selection. Thanks for give opportunities to us for continuous product development, new products and collections are constantly growing.

Please feel free to contact our sales for the most up to date information.

Thank you!