

Boards Handling Manual

Storage



All Kalsi boards must be stored flat on pallets and placed inside covered and dry conditions, optimising protection for stored boards against exposure to weather and other unfavourable conditions.

Ensure the boards are stacked on flat ground and supported with level bearers. Improper stacking and/or on unlevelled surface may result in permanent deformation that causes unsightly appearance such as waviness (especially for planks).

Boards are preferably stored under a protected shade. If stored outdoors, it must be covered from effects of weathering agent such as rainwater and sunlight exposure. Allow wet boards/ planks to dry to equilibrium under natural ventilated condition prior to any installation.

Handling

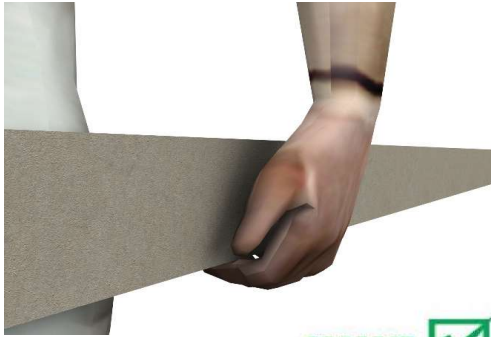
Never carry Kalsi boards/ planks on flat and middle position, as this increases the likelihood of breakage.



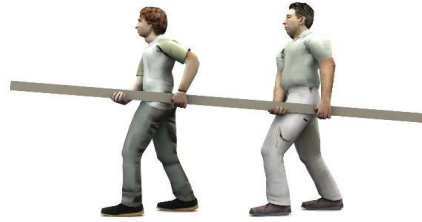
For Kalsi Planks,



Hold the Kalsi Plank or boards, vertically at the edge.
If two person carry, hold it near the both ends of the panel.



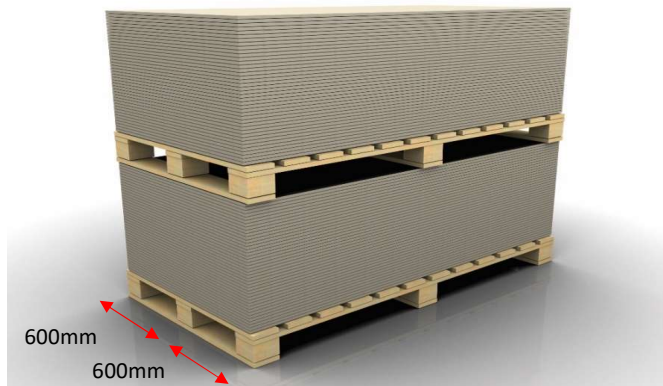
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On-site Handling and Installation

Store sheets neatly on flat surface, clear off the ground to avoid damage and moisture ingress.
Bearers to be spaced at 600mm centre maximum as below;



Never install damp sheets, if the boards or planks have been wetted, allow to dry to Equilibrium Moisture Content before lifting and fixing the boards.

Kindly refer to fixing recommendation and framing details for the boards as per its intended application.

For best performance, the boards are recommended to be pre-painted before installation OR alternatively, to be coated as soon as possible after they are installed.

Ensure the boards are dry, clean from dirt and/or sanded prior to painting.

Finishing

For best result, two (2) minimum layers of coats of good quality acrylic paint is recommended.
For boards intended for external use, all surfaces expected to be exposed to humidity should be painted or primed, the least.

In all cases, kindly refer to coating manufacturer's recommendation for finishing product of choice.

Tools



Sawing machines such as Festool, Makita, Bosch, DeWalt etc work with a tungsten carbide tipped saw blade on a low speed electric motor and move over a fixed working table. Typically, used on site producing good results of cutting Kalsi Boards with thickness up to 20mm.

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Vacuum cleaner is recommended for cutting with power saws. As additional safety precautions, always wear eye, ear and dust protection when using power tools of any type.

Important points to take note:

- 1) Ensure boards to be cut are continuous and well supported on either side of the cut.
- 2) Straight edge should be clamped in position to guide cutting operation
- 3) Cutting rate should be such that the blade is not labouring or over-heating.

Special processes or Cutting

It is extremely important to remember that Kalsi boards are made of abrasive materials that require special tools for cutting and machining.

Keep in mind the following recommendations:

- Use abrasion resistant cutting tools of tungsten carbide or diamond tipped saws.
- Avoid too much generation / inhaling of dust by cutting in well ventilated area.
- Score and snap

For straight cuts on boards up to 8mm thick, simplest way is to use scoring knife with tungsten carbide tip.

Use a straight guide and score the surface of the board until a notch of 4mm deep is made.

The final break is obtained by applying pressure on the unsupported part of the board.

The cut is relatively neat but its edge should be finished with sand paper, manual or electric plane.

- For higher thickness up to 20mm, use power saw machines such as table saw, circular saw or jigsaw.
- By using power jigsaw, boards can be cut easily into various shapes including curved lines.



- Drilling and Holes Opening

Boards can be perforated using any power drill with hollow drill bit of tungsten carbide tips OR by drilling successive small holes.

