

## DUO BOARD – HDF Free floating sub-floor

DUO BOARD – HDF Free floating, floor preparation system and vapour barrier for the immediate glue-down of all resilient floorings, such as sheet vinyl, LVT's, linoleum, cork, rubber, carpet and carpet tiles, when used in conjunction with Wunda 800g/200mu vapour barrier. DUO BOARD system and vapour barrier is only to be installed after ensuring all heating boards are securely bonded down, all floor heating pipes are fully seated into pipe channels and a full pressure test of the floor heating system has been carried out.

DUO BOARD is a quick, simple and dry solution to install with a very low thermal resistance allowing heat to transfer quickly and easily for a rapid response and maximum comfort. The DUO BOARD installation can be removed easily, without any damage to the original floor finish, should this be required.

Made from HDF (high-density fiberboard), which is engineered wood fibers that have been highly compressed. It is similar to medium-density fiberboard but is denser and much stronger. DUO BOARD is a free floating HDF sub-floor specifically designed for installation over floor heating to provide a smooth, stable and level base.

1 It is important to protect the DUO BOARD system by installing Wunda 800g/200mu vapour barrier between the Rapid Response boards and pipe, before DUO BOARD is installed. Lay vapour barrier across the entire surface of the rapid response floor heating boards and pipe.

The DUO BOARD system comprises of two layers, a 4mm base board with adhesive surface and a 3mm top board, boards are laid in an overlap/brick bond fashion. The 4mm base board is laid first with adhesive side facing up, the 3mm top board is then laid brick bond fashion onto the expose adhesive surface producing a seamless surface, preventing 'joint lines' from showing through carpet, vinyl and linoleum floor finishes. Once laid joints can be sanded to achieve a seamless floor deck to bond onto. Expansion gaps should be left at a ratio of 1mm per linear metre, for example ; 8mtr length = 8mm expansion gap around all the edges.

DUO BOARD is not suitable for use in bathrooms, wet rooms, en-suites or any other wet areas, the boards will expand upon contact with moisture. DUO BOARD is not a structural sub-floor for use as replacement of floor boards/decks.

Visit our **How-To Videos** page to watch the Wunda duo board and vapour barrier installation guide.

<https://www.wundagroup.com/support/how-to-videos/>



PLEASE NOTE: When laying DUO BOARD allow an expansion joint every linear 8mtrs, the expansion joint should be between 5mm to 10mm and can be filled level with the board surface using a flexible sealant/filler.

PLEASE NOTE: You cannot use tile adhesive or levelling compounds on these DUO BOARDS

## Installing DUO BOARD

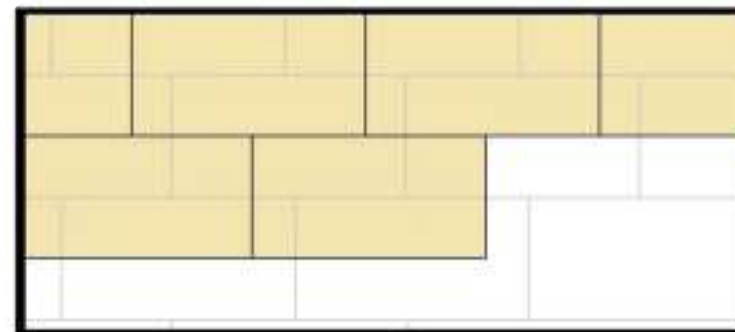
DUO BOARDS are installed in two layers, following the cutting instructions below, the first base layer requires the boards with adhesive facing up, don't remove the adhesive protective cover at this stage lay boards one room or area at a time.

**Do not use the adhesive facing to bond the boards sticky side down to the surface below.**

Once the area is covered with the base layer of boards arranged in a brick bond fashion with the adhesive side facing up, the top layer of boards can be laid in a brick bond fashion so that the joints are staggered and overlap the joints in the base boards. Take care to lay the boards tight up to each other leaving no gaps between boards. Laid correctly DUO BOARDS will provide a seamless sub-floor and avoid the possibility of joints showing through the carpet, vinyl or linoleum floor finish. DUO BOARDS are a free floating sub-floor designed for installation over all types of floor heating systems, suitable carpet (max 2 tog) vinyl or linoleum can be glued using a suitable adhesive directly onto the DUO BOARDS system or simply laid freely on top.

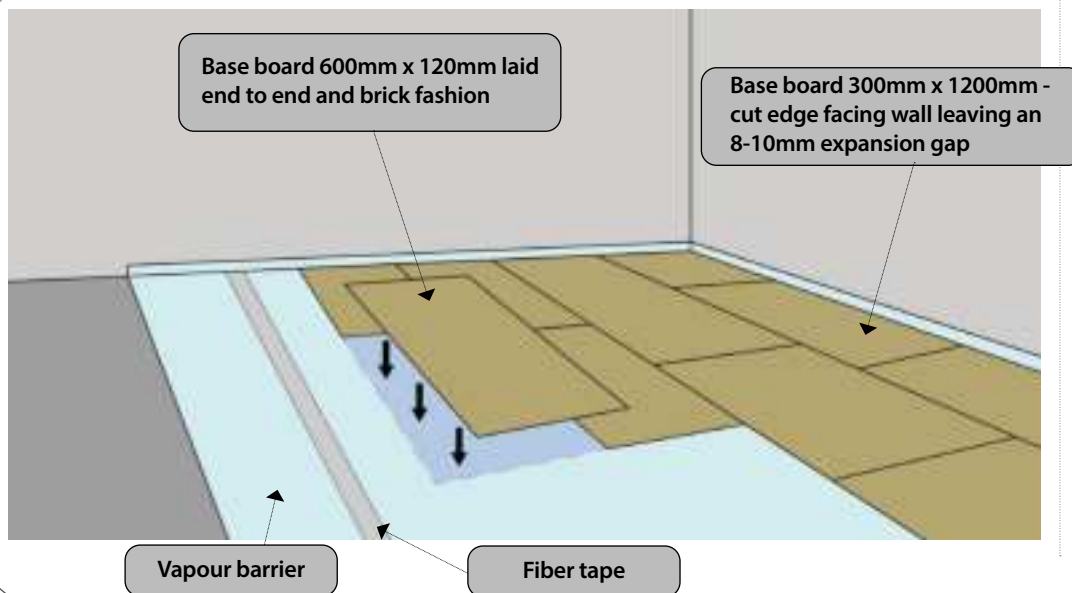
**Before purchasing or installing your chosen final floor finish check with your supplier for compatibility with DUO BOARD and floor heating.**

Lay DUO BOARDS in a brick bond fashion staggering the joints as below, whilst leaving an 8-10mm expansion gap around outside walls, pipes & fixed objects.



1. Before commencing fitment ensure the area is clean, dry, level and free from dust/debris or any objects that will prevent the DUO BOARDS from lying flat. Lay the Wunda vapour barrier onto the base floor, ensure the barrier is flattened with no creases. Allow the barrier to come up the walls approximately 50mm. Overlap the vapour barrier 200mm along all seams and tape the joints. Any excess can be trimmed off once final floor has been installed.
2. The first row of base boards will require cutting the boards in half along their length, placing the cut edges against the wall. The first board laid in this row must be  $\frac{3}{4}$  of its length, again place both cut edges facing the wall. Leave an 8-10mm expansion gap between the DUO BOARDS and outside walls, pipes and fixed objects. Lay out the remaining base boards end to end in the first row adhesive side face up, do not remove the adhesive protective film yet.
3. The second row of base boards can now be laid in the same direction as the first row, the first board in the second row must be cut to  $\frac{1}{4}$  of its length again cut side facing the wall and adhesive side facing up leaving the protective film on the boards. Place a full length board end to end with the  $\frac{1}{4}$  cut board, the left over off cut will be used to start the third row. Ensure base boards are laid tight up against each other leaving no gaps between the boards.
4. Repeat cutting steps 1-3 for the rest of the rows, staggering the boards in a brick bond fashion.
5. Do not remove the adhesive protective film and keep your work space clean and free from dust.

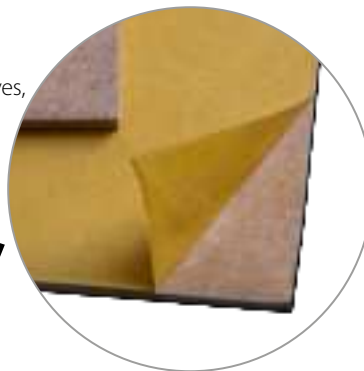
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Once all base boards have been cut and laid with adhesive protective film still attached and facing up, the top layer of DUO BOARDS can be systematically laid on top following the steps below.

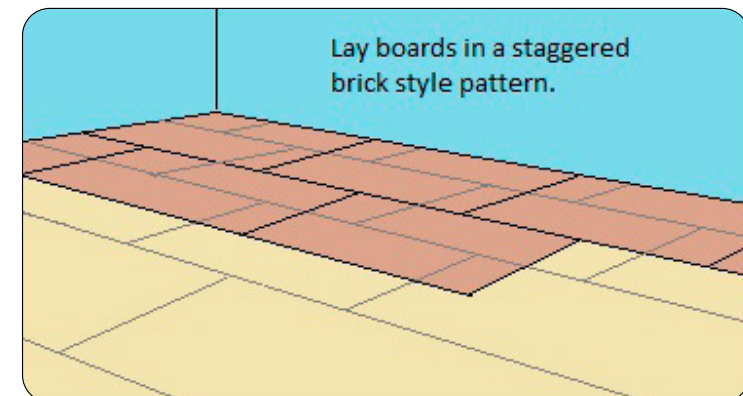
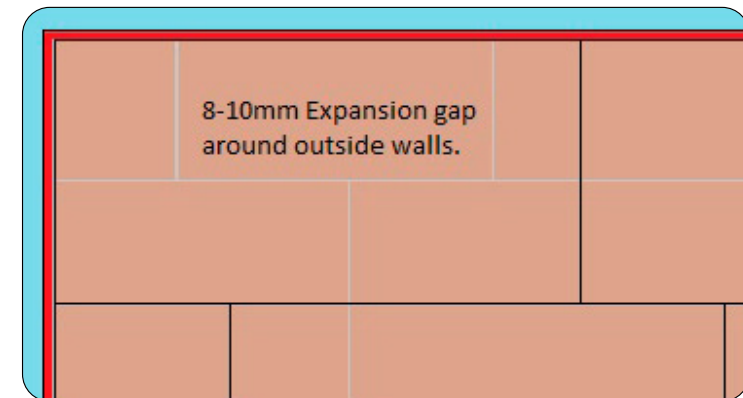
1. The top layer of DUO BOARDS are laid in the same direction as the base boards leaving an 8-10mm expansion gap around outside walls, pipes or fixed objects. Ensure the base boards are laid flat, investigate and remedy any 'high' spots or areas where the boards are not laid flush. Vacuum the area to remove any debris and dust before removing any adhesive protective film or fitting the top layer.
2. Returning to the first row where the cut base boards were laid, remove enough adhesive protective film to expose an area you can comfortably work with, ideally not much bigger than a full size board at a time.
3. Remove the adhesive protective film from the base boards, select a full size top DUO BOARD carefully position the board onto the exposed adhesive. Check for alignment at the same time the base boards should be checked for movement and gaps. Gently lower the top board onto the exposed adhesive smoothing across the board as you lay. The top board can be gently tapped with a rubber mallet to ensure adhesion taking care not to damage the boards.
4. Keep the joints between the top layer of boards as tight as possible laying the boards end to end in a brick bond fashion, start the second row with a  $\frac{1}{2}$  length board. Lay the second row in a staggered brick bond fashion ensuring the joints in the base layer are covered.
5. Systematically lay each row of top layer DUO BOARDS one row at a time, removing the adhesive protective film as you go. Keep the lines straight and each board tight up to the last one laid. Lay each room or area separately ensuring an expansion gap of 8-10mm around all walls, pipes or fixed objects.
6. If your final floor finish is to be glued onto the DUO BOARDS surface, check with your floor finish supplier for suitable adhesives, compatibility and installation instructions.

*Protective film peeled back on baseboard revealing adhesive surface*



### Temperature sensitive floors such as LVT

Temperature sensitive floor finishes, such as LVT and wood flooring will need temperature limiting probes installed before final floor finish is installed, a maximum floor surface temperature of 27°C is required. Wunda can supply floor probes at point of estimate. DUO BOARD will need routing to allow flush fitting of floor probes so that the probe is in contact with the underside of the temperature sensitive floor finish.



## Duo board

### Technical Information

Board size (each)	1200 x 600mm
Top board thickness	4mm
Base board thickness	3mm
Composition	HDF fitted with interactive adhesive on base board
Density kg/cm <sup>2</sup>	770
Bending strength kg/cm <sup>2</sup>	>40
Humidity (%)	4-10
Thermal Rm value (m <sup>2</sup> .K.W.-1)	0.047
Fire classification DIN 4102	B 2
Storage	In a dry place, horizontal position

## Vapour barrier

### Technical Information

Description	Natural Mono CFS Reel
Substrate	LD Virgin (Medium - High Slip)
Density	GP low density (LDPE)
Colour	Natural
Size of product	1200/2400MM
Thickness	200μ
Air perforations	None
PIFA tolerances	Size: ± 3% Thickness: ± 10% Quantity: ± 10% Please note that with very short runs or very small bags/sheets, the tolerances increase.
Other Info:	*30% RECYCLED CONTENT*

#### Full product description:

1200/2400MM (47 1/4 94 1/2) 200μ (800g) Natural LD Virgin Shrink (Medium - High Slip), CFS Reel  
- EXTRAS: \*30% RECYCLED CONTENT\*

#### LDPE TEMPERATURE PARAMETERS

SOFTENING POINT - 90°C to 120°C

MELTING POINT - 130°C to 150°C

## Your Notes:

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