CHECK LIST

Pre-installation of Foreverbeech Solid or Engineered Timber Flooring

NOTE: It is the responsibility of the installer to inspect their work place prior to beginning the installation of the selected timber flooring to ensure the installed work will meet the supplier's requirements. Notify owner / general contractor of any concerns prior to installation.

Company Name:		JOB#
Address of Job:		
Name of Contractor:		
Date / /		

PRE – INSTALLATION

	DESCRIPTION	COMMENT &/OR RECORD
1.	As a rule of thumb, Hardwood Timber Flooring shall be one of the last steps performed on any construction or renovation project.	
2.	It is recommended that the owner, Installer and project manager (or applicable individual) have viewed and checked the timber supplied to ensure it is the desired product. This includes the volume supplied, correct profile, grade, length specification and how the floor will be laid out. NOTE: Any concerns relating to the timber supplied **MUST** be communicated to the supplier within a **7-day** period after receiving the timber.	
3.	The substrate **MUST** be free of cracks, dust, oil, wax, paint or any other surface contaminants. The substrate must also be flat, level and sound. Irregularities **MUST** not exceed 1.5mm every 1m.	
4.	Underfloor heating **MUST** be correctly commissioned and functional prior to installation. A minimum timber thickness of 19mm shall be used over under floor heating. A maximum surface temperature of 25 degrees Celsius for Solid timber flooring and 27 degrees Celsius for HBB Engineered timber flooring applies. Alternatively, Magnum Board 9mm can be overlaid in conjunction with 10mm Foreverbeech Solid Timber Flooring.	

5.	Air conditioning and heating systems shall be in place and operational. A consistent room temperature of 24 degrees Celsius and relative humidity of 40 – 60% RH shall be maintained in the installation site for 14 days prior, during installation and until occupied to allow for proper acclimatization.	
6.	Solid flooring shall be stored on site "in-strip" supported by clean dry timber fillets of an even thickness (10-20mm) placed directly in line above each other and above the bearers (allow at least 45mm space under the flooring for air circulation) at a maximum of 450mm centers. This shall be completed 7 – 14 days prior to installation at a consistent room temperature of 24 degrees Celsius and relative humidity of 40 – 60% RH.	
6.1	Engineered flooring shall be stored on site in their unopened cartons and place on bearers (allow at least 45mm space under the flooring for air circulation) at a maximum of 450mm centers. This shall be completed 48 hours prior to installation at a consistent room temperature of 24 degrees Celsius and relative humidity of 40 – 60% RH. Packaging shall only be opened just prior to the start of the installation.	
6.2	NOTE: If the above atmospheric limitations cannot be achieved prior to the placement of either flooring options on site, then it is recommended to rally the product into the environment just prior to installation. Installation shall be completed immediately. Finishing shall be complete directly after the completion of the installation. It is likely that some moisture uptake will take place in this instance. Some gapping of boards (especially Solid Timber) or normal seasonal movement may occur when air conditioning is commissioned, or normal living conditions take effect. This risk is the sole responsibility of the owner and installer.	
7.	Do not fit new T & G flooring to an existing T & G flooring substrate in the same direction. The new T & G flooring most flow in the opposite direct to the existing T & G flooring. Alternatively, Magnum Board (9mm) can be overlaid to the existing T & G flooring (Refer to Magnum Board installation procedures with the addition of 100% Traditional glue application methods) prior to installing the new T & G flooring.	
8.	Skirting must be left off and fitted after the floor is installed. It is recommended that the final floor coatings are applied prior to the skirtings being fitted and painted in. The owner, installer and project manager (or applicable individual) can determine the process required.	
9.	Kitchen units (excluding waterfall side bench tops and kick boards) can be fitted prior to the flooring. It is recommended that bench tops and centre islands are fitted after the flooring to enable them to be lined up with the floor and finished onto the finished floor in a similar manner to the skirting. Therefore creating a more detailed finish.	

ALSO REFER TO INSTALLATION AND/OR SUBSTRATE PREPARATION VIDEOS

CHECK LIST

Substrate preparation for Foreverbeech Solid or Engineered Timber Flooring

To be read in conjunction with installation videos & alternative substrate fixing video's

NOTE: It is the responsibility of the installer to inspect their work place prior to beginning the installation of the selected timber flooring to ensure the installed work will meet the supplier's requirements. Notify owner / general contractor of any concerns prior to installation.

Company Name:		JOB#
Address of Job:		
Name of Contractor:		
Date / /		

SUBSTRATE PREPARATION

The "Substrate" is known as the structural surface to which the flooring will laid onto. The most common substrates are 18mm magnum board, raised floor joist systems, concrete, 18mm ply, particle or stand board or autoclaved aerated concrete (AAC) such as Hebel.

IMPORTANT

All surfaces must be level with-in a 1.5mm every 1m tolerance. Joist and board systems (where joist need to be planed for example) must be levelled by a registered builder. Concrete and board products can be levelled using the appropriate Mapei floor levelling compound (FLC) systems in accordance with the manufacturer's recommendations. Ultrabond ECO 995 can be used directly over the FLC once cured. Notching, to level a joist substrate is an unsuitable way to approach levelling. Any reduction in the thickness of a substrate (especially joist) can place the substrate strength outside of the building code.

1.	The substrate **MUST** be free of cracks, dust, oil, wax, paint or other surface contaminants. The substrate must also be flat, level and sound. Irregularities **MUST** not exceed 1.5mm every 1m.	
2.	Key the substrate surface & remove any contamination as per adhesive and subfloor manufacturer's recommendations. Use best practice methods. See guide lines below.	
3.	Use levelling compound to level the sub-floor in accordance with adhesive and subfloor manufacturer's recommendations.	
4.	The installer **MUST** check the moisture content (using appropriate equipment and manufacturer's recommendations) of the sub floor in a random fashion to ascertain an accurate understanding of the moisture content of the entire floor area. Record this information inclusive of images. This moisture content **MUST** not exceed the adhesive or moisture barrier manufacturer's limitations. Refer to this information when considering what products are to be applied or fitted to the substrate to manage the moisture content or moisture migration into the timber flooring.	

MAGNUM BOARD

1.	The substrate shall be installed as per the manufacturer's requirements and as per the requirements of the building code. This is the owner or builders responsibility.	
2.	Ensure adequate ventilation throughout the crawl space is available to allow air flow. A moisture barrier of sealed black polythene or lime chip shall be laid on the ground in the crawl space below the installation area.	
3.	The substrate MUST be structurally sound, dry, solid, stable with no visible standing water and dry to touch.	
4.	Key the substrate surface & remove any contamination using mechanical sander with approx. 80 grit sand paper.	
5.	Magnum Board shall be treated with Mapei Eco 995 – Moisture Control System or Mapei Primer MF (When Foreverbeech Heritage 10mm overlay is to be fitted). **Refer to 10mm Heritage install video: https://vimeo.com/290400316**	

Refer to Magnum Board preparation video: https://vimeo.com/301943591

JOIST SYSTEMS

If a joist system is **new**, then it can be considered that the substrate will have a moisture reading higher than that of the timber flooring, and therefore Magnum Board should be considered. Magnum Board should also be considered when there is insufficient airflow or dampness is apparent under the joist system. A combination of 9mm Magnum Board (non-structural) and 19mm T & G Flooring (Structural) or 18mm Magnum Board (structural) and 10mm T 7 G Flooring (Non Structural) can be used. Magnum Board installation instructions and methodology shall be used.

It should also be known & considered that polystyrene underfloor insulation can contribute to moisture related issues when used in conjunction with solid timber floors and joist systems that

have a moisture reading higher than that of the timber flooring. This will be especially prevalent when underfloor heating exists. Terra Lana Underfloor insulation is recommended.

1.	The substrate shall be installed as per the manufacturer's requirements and as per the requirements of the building code. This is the owner or builder's responsibility. NOTE: Nogs should be present at the junction over the bearer as a minimum.	
2.	Sand or scrape the joist to key the surface and remove contamination. Check the Joist spacing are set at 450mm centers for 19mm Foreverbeech Flooring. Ensure adequate ventilation throughout the crawl space is available to allow air flow. A moisture barrier of sealed black polythene or lime chip shall be laid on the ground in the crawl space below the installation area. The joist system shall be between 8 – 12% moisture content prior to installing the flooring. Alternatively, Magnum Board can be fitted over the joist system with the moisture vapour control glue application system used.	
3.	End Matched Foreverbeech flooring is recommended.	

Refer to Joist preparation video: https://vimeo.com/301943693

SHEET BOARD (PLY/STRAND/PARTICLE ETC) & EXISTING T & G FLOORING

1.	The substrate shall be installed as per the manufacturer's requirements and as per the requirements of the building code. This is the owner or builders responsibility.	
2.	The substrate MUST be structurally sound, dry, solid and stable with no visible standing water and dry to touch.	
3.	Key the substrate surface & remove any contamination using mechanical sander with approx. 80 grit sand paper.	
4.	A moisture barrier of sealed black polythene or lime chip shall be laid on the ground in the crawl space below the installation area. The sheet board system shall be between 8 – 12% moisture content (or within a few percent) of the new flooring. Install using the Mapei ECO 995's, tradition installation method detailed in the manufacturer's product sheet. This information can be found in the technical documents of the product on WWW.healthbasedbuilding.com. Alternatively, Magnum Board can be fitted over the Board system or replace the board system with a moisture vapour control system used.	
5.	NOTE: New timber flooring should be fitted at 90 degree to the existing T & G flooring. Alternatively, magnum board can be fitted to the existing T & G prior to installing the new T & G flooring.	

Refer to Joist preparation video: https://vimeo.com/301943653

CONCRETE

1.	The substrate shall be installed as per the manufacturer's requirements and as per the requirements of the building code. This is the owner or builders responsibility.	
2.	The substrate MUST be structurally sound, dry, solid and stable with no visible standing water and dry to touch.	
3.	Key the substrate surface & remove any contamination using mechanical diamond grinder (dry grind only).	
4.	The concrete shall be treated with Mapei Eco 995 – Moisture Control System or Mapei Primer MF (When Foreverbeech Heritage 10mm overlay is to be fitted). **Refer to 10mm Heritage install video: https://vimeo.com/290400316**	

Refer to concrete preparation video: https://vimeo.com/301943383

Autoclaved Aerated Concrete (AAC) such as Hebel.

1.	The substrate shall be installed as per the manufacturer's requirements and as per the requirements of the building code. This is the owner or builders responsibility.	
2.	The substrate MUST be structurally sound, dry, solid and stable with no visible standing water and dry to touch.	
3.	For keying or preparation, Refer to manufacturer's recommendations. Mapei recommend 2 coats of Primer MF to consolidate and prepare the surface	
4.	Install using the Mapei ECO 995's, Tradition installation method in conjunction with two coats of primer MF. Details of these products can be found in the manufacturer's product sheet. This information can be found in the Technical documents of the product on WWW.healthbasedbuilding.com. This information shall be cross reference with the sub floor manufacturer's recommendations.	

ALSO REFER TO INSTALLATION AND/OR SUBSTRATE PREPARATION VIDEOS & PRODUCT MANUFACTURERS RECOMMENDATIONS.