

40272 Prepare substrate surfaces for timber and engineered timber flooring installation by bonded method

Kaupae Level	4
Whiwhinga Credit	10
Whāinga Purpose	<p>This skill standard recognises the skills required to examine, evaluate, and prepare substrate surfaces for timber and engineered timber flooring installation by bonded method.</p> <p>This skill standard aligns with the New Zealand Certificate in Timber and Engineered Timber Flooring (Level 4) [Ref: 4300].</p>

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Examine and evaluate substrate surfaces.	a. The physical and technical properties of substrates and substrate surfaces are assessed for suitability.
	b. Common issues are identified, and remedies are applied to ensure that substrates and substrate surfaces are within acceptable tolerances for bonded timber and engineered timber flooring installation.
	c. Observable signs of potentially contaminated, unsuitable, or hazardous substrate surfaces are identified and responded to according to workplace procedures.
	d. Repairs that require a substrate preparation specialist are identified and arranged according to workplace procedures.
2. Prepare existing timber substrate and substrate surfaces ready for bonded timber and engineered timber flooring installation.	a. Surface contaminants are removed, and a clean and smooth surface is achieved through light mechanical abrading of timber substrate.
	b. Filling compounds are applied to achieve a smooth surface.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
3. Prepare existing concrete substrate and substrate surfaces ready for bonded timber and engineered timber flooring installation.	a. Surface contaminants are removed, and a clean and smooth surface is achieved through light mechanical abrading of concrete substrate.
	b. Resurfacing compounds are applied to make any minor repairs required to achieve a smooth surface.
	c. Engineered cement is ramped to achieve an appropriate gradient between substrate levels.

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

Candidates must be capable of consistently performing the requirements of preparing timber and concrete substrate surfaces ready for bonded timber and engineered timber flooring installation to the standard expected of commercial competence.

Acceptable procedures are documented in relevant Standards and industry best practice, job documentation, manufacturers' specifications, and workplace procedures.

Commercial competence refers to:

- performing the skill in a safe manner
- performing the skill to required industry standards
- performing the skill within a commercially viable timeframe
- repeating the skill on demand
- performing the skill without supervision
- applying the skill to other work.

Industry standards must reflect flooring industry best practice, workplace procedures, and be within acceptable tolerances as defined in New Zealand.

Physical and technical properties of substrates and substrate surfaces refer to level, fall, thickness, structural support, moisture content, fixings, surface integrity, stability, and cleanliness.

Workplace procedures refer to verbal and written information covering company policy, standard operating procedures, and job specific instructions.

Substrate preparation does not require asbestos removal, replacement of substrate framing, moisture treatment systems, or levelling of large surfaces. Legislative requirements and workplace procedures must be followed if asbestos is found.

Assessment must conform to workplace conditions and meet workplace health and safety requirements.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content**Substrate assessment**

- Assessment of substrate to ensure it is solid.
- Assessment of substrate and surroundings for signs of moisture.
- Assessment of substrate for rotten or broken floorboards, and presence of borer.
- The impact of common issues such as unclear, contaminants, asbestos, required levels and falls of surface not met, unsound substrate, moisture in substrate, dust on substrate surface.
- Specialist trades who repair floor substrates, including moisture treatments.
- Substrate tolerances for timber and engineered timber flooring installation.

Timber substrate preparation

- Mechanical abrading.
- Removal of surface contaminants including adhesive, dust, paint, wax, oil, old rubber underlay residue or grease residue from timber substrates.
- Application of filling compounds.

Concrete substrate preparation

- Mechanical abrading.
- Removal of surface contaminants including adhesive, dust, paint, wax, oil, old rubber underlay residue or grease residue, bond breakers or curing compounds from concrete substrates.
- Use of straightedge or laser to measure smoothness and flatness of substrate.
- Selection and use of mechanical equipment to achieve a flat and smooth surface.
- Application of repair and fine finishing compounds.
- Ramping engineered cement.

Maintaining professional standards

- Establishing and coordinating substrate preparation repairs to fit within a programme of work.
- Industry best practice for substrate preparation for timber flooring installation by bonded method.
- Safe disposal of waste products.
- Importance of maintaining a clear working environment.

Rauemi | Resources

Flooring Programme Guidance available from qualifications@waihangaararau.nz.

Legislation, available from www.legislation.govt.nz:

- Building Act 2004, Building Code
- Hazardous Substances and New Organisms Act 1996
- Health and Safety at Work Act 2015.

Pārongo Whakaū Kouna | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Planning and Construction > Construction Trades > Flooring
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0048

Hātepe Process	Putanga Version	Rā whakaputa Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	28 November 2024	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2029		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz if you wish to suggest changes to the content of this skill standard.