

Overlay Flooring Design System

Product Performance Compliance Design Guide

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1. Scope & Limitations on the use

Overlay flooring system installation using either FLOATING or GLUE-DOWN methods. However, regardless of the installation method, adherence to installation conditions is necessary.

- This Overlay Flooring system is for commercial and residential indoor use and is not to be used outdoors. Violation of this will result in the warranty being voided.

- This product is suitable for all areas except commercial kitchens and garages.

- The Subfloor must be level in accordance with NZS/AS 1884:2013 (3mm variation over a 3m long straight edge)

- The product must be installed onto an approved subfloor.

- When used in wet areas, the provisions of this installation guide must be followed to ensure the flooring performs properly post-installation.

- The products are used with underfloor heating systems, the provisions of this installation guide must be followed to ensure the flooring performs properly post-installation.

- During maintenance and cleaning, the maintenance and care guide provided by FLOORCO must be adhered to.

- The product needs to comply with the NZBC C AS/1, maintaining a distance from combustion appliances.

- It's crucial to pay attention to the maximum width and length during flooring installation to ensure adaptability.



2. Environment & Conditions

-----Recommendations

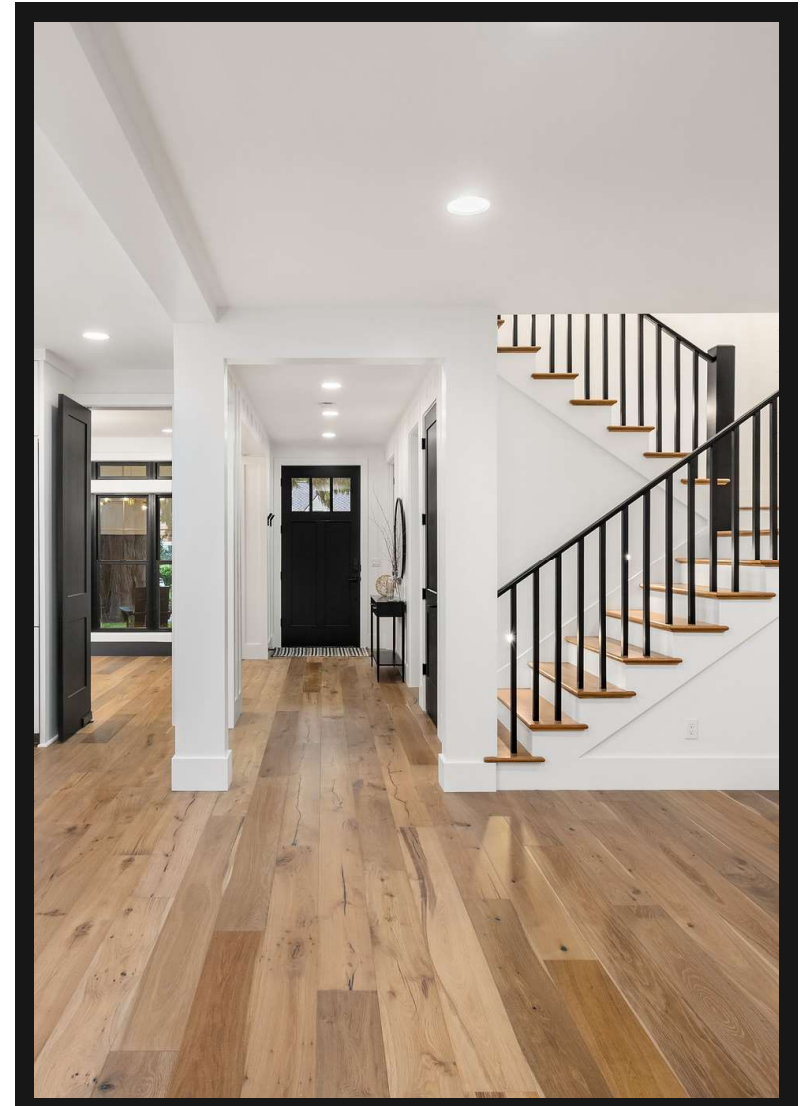
lease store the packets 48 hours prior to installation under the same climatic conditions (temperature and moisture) as the actual installation process.

Important pre-condition for proper fitting and long-term use of the laminated flooring is a room temperature of 18 – 24°C and a relative humidity of around 40 – 70%.

it is essential to keep the flooring dry and free from moisture. Moreover, the flooring should never be placed outdoors.

Maintaining a stable indoor temperature and humidity over a certain period of time is crucial. Greater shrinkage would be caused by the lower humidity, and greater expansion would be caused by the higher humidity. Certain issues (such as squeaking in an existing plank or sheet subfloor or the integrity of tile fixation)

Necessary Materials and Tools: Adhesive, moisture barrier, polyethylene foil or moisture barrier underlayment, aluminum jointing tape, separation shims, fit-up aid, and footfall sound insulation.



3. Concrete & Timber Substrate Preparations

3.1 Clean & Dry

Remove or clean all surface contaminants- any glue or sticky adhesive residue needs to be mechanically eradicated to avoid any clicking sounds that might be heard when walking across the finished floor.

Concrete and timber while the surface of these substrates may appear dry, it is after the installation of the flooring product that any potential moisture can be drawn to the surface causing bubbling and swelling of the product. This can be caused by the concrete slab blocking off the crossflow ventilation. The result creates moisture build-up beneath the building.

Both substrates should be moisture tested at the early planning stages of an installation a moisture content reading that is more than 16% may indicate a moisture problem beneath the floor. Providing adequate subfloor ventilation and vapor membrane is crucial.

3.2 Sound & Smooth

Alongside any loose, rotten, or springy boards, inspect for flexing and stability at the joint where timber meets concrete. This joint represents the weakest point susceptible to movement under load, heat, moisture, or seismic activity.

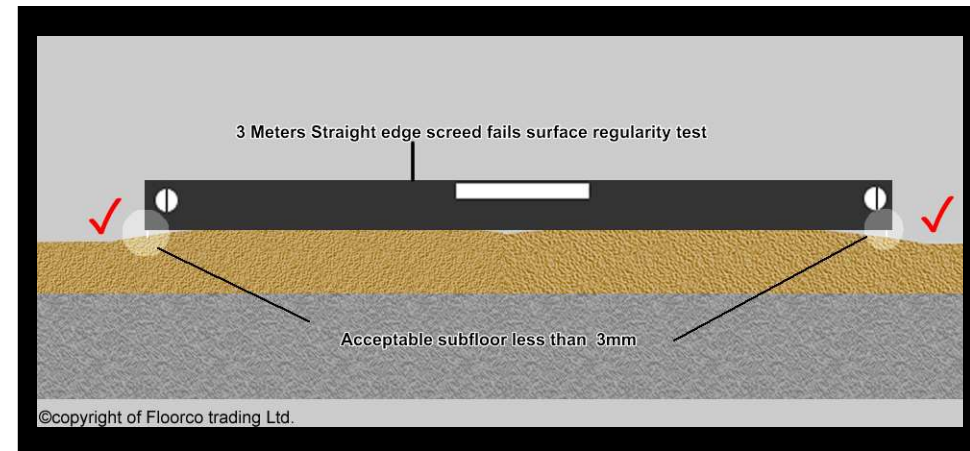
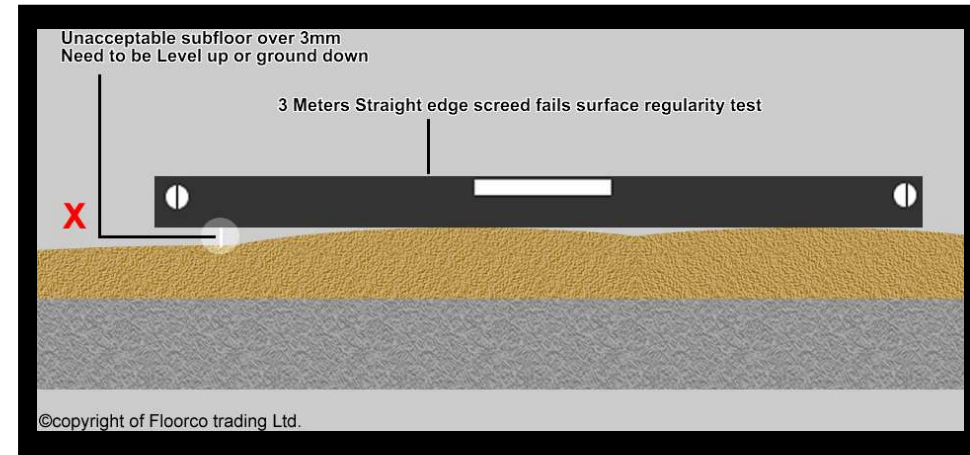
The surface should exhibit smoothness with no detectable ridges when a hand is glided over it.

3.3 Flat Planeness

When a 3000mm long straightedge is laid at rest on two points spaced 3000mm apart on the surface, no portion of the surface should be more than 3mm beneath the straightedge. NZS AS1884:2013

3.4 Leveling

In situations where there is a substantial discrepancy in the level of the floor, utilizing Plywood can effectively resolve the unevenness. When the discrepancy is minor, using a screed or leveling compound can smooth out the irregularities, providing a flat and stable surface for further flooring installations.



4. Product List

The flooring product in the following catalog is suitable for the Overlay flooring system.

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Wood	Atwood Floors	Classic Natural	150x14x1900	FA01
Wood	Atwood Floors	Classic White Washed	150x14x1900	FA02
Wood	Atwood Floors	Classic Smoky	150x14x1900	FA05
Wood	Atwood Floors	Classic Bronze	150x14x1900	FA06
Wood	Atwood Floors	Classic Smoked	150x14x1900	FA07
Wood	Atwood Floors	Classic Brown	150x14x1900	FA11
Wood	Atwood Floors	White Plus	190x14x1900	FP01
Wood	Atwood Floors	Smoky Plus	190x14x1900	FP04
Wood	Atwood Floors	Bronze plus	190x14x1900	FP05
Wood	Atwood Floors	Black Plus	190x14x1900	FP07
Wood	Atwood Floors	Natural Brushed Plus	190x14x1900	FP08
Wood	Atwood Floors	Natural Plus	190x14x1900	FP09
Wood	Atwood Floors	Antiqued Natural	190x14x1900	AN11
Wood	Atwood Floors	Antiqued White ivory	190x14x1900	AN13
Wood	Atwood Floors	Antiqued Smoked	190x14x1900	AN15
Wood	Atwood Floors	Antiqued bronze	190x14x1900	AN16

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Wood	WOLFLOR	Lacquer	190x14x1900	WOL02
Wood	WOLFLOR	Wax oil	190x14x1900	WOL01
Wood	WOLFLOR	Nelson White	600x125	HB01
Wood	WOLFLOR	Timaru Natural	600x125	HB02
Wood	WOLFLOR	Queenstown Tea	600x125	HB03
Wood	WOLFLOR	Wanaka Black	600x125	HB04

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
wood	GL wood	Toffee wood	190x14x1900	GL01
wood	GL wood	Slategray wood	190x14x1900	GL02
wood	GL Wood	NATURAL WOOD	190x14x1900	GL09
wood	GL wood	WHITE ASH	190x14x1900	GL11
wood	GL Wood	NATURAL ASH	190x14x1900	GL12
wood	GL wood	Chocolate ASH	190x14x1900	GL13
wood	GL Wood	Bright white	190x14x1900	GL15
wood	GL wood	Natural PRO	190x14x1900	GL16
wood	GL Wood	Zebra oak	190x14x1900	GL17
wood	GL wood	Black walunt	190x14x1900	GL18

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Wood	ANTICO	NATURAL	220x15x2200	AN01
Wood	ANTICO	WITHE	220x15x2200	AN02
Wood	ANTICO	SMOKED	220x15x2200	AN03
Wood	ANTICO	BRONZE	220x15x2200	AN04
Wood	ANTICO	Dark	220x15x2200	AN05
Wood	ANTICO	Natual 20	190x20x1900	AN06
Wood	ANTICO	White 20	190x20x1900	AN08
Wood	ANTICO	Mocha 20	190x20x1900	AN09

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Wood	Barlinek	Oak grissini	180X14X2200	OGGC
Wood	Barlinek	Oak marzipan muffin	180X14X2200	OMMG
Wood	Barlinek	Oak pudding	180X14X2200	OBSG
Wood	Barlinek	Banana song	180X14X2200	OBSG
Wood	Barlinek	Cheesecake	180X14X2200	OCGC
Wood	Barlinek	Oak Biscotti	180X14X2200	BGML
Wood	Barlinek	Oak Cappuccing	180X14X2200	OHNO
Wood	Barlinek	Oak still	207X14X2200	OSML
Wood	Barlinek	Oak glee	207X14X2200	OGML
Wood	Barlinek	Oak cheer	207X14X2200	OCML
Wood	Barlinek	Oak Gentle	207X14X2200	OGEL
Wood	Barlinek	Oak Delight	207X14X2200	ODML
Wood	Barlinek	Herringbone oak grissini	130X14X725	HBOG
Wood	Barlinek	Herringbone oak Carmel	130X14X725	HBOC
Wood	Barlinek	Herringbone Oak brown	130X14X725	HBOB

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Laminate	BinylPRO	Charcoal Oak	1285x192x8	1537
Laminate	BinylPRO	Stockholm Oak	1285x192x8	1536
Laminate	BinylPRO	Stratos Oak	1285x192x8	1535
Laminate	BinylPRO	Hamilton Oak	1285x192x8	1533
Laminate	BinylPRO	Bolero Oak	1285x192x8	1532
Laminate	BinylPRO	Aramis Oak	1285x192x8	1531
Laminate	BinylPRO	Dartagnan Oak	1285x192x8	1530
Laminate	BinylPRO	Mayan Oak	1285x192x8	1523
Laminate	BinylPRO	Herloom Oak	1285x192x8	1519
Laminate	BinylPRO	Svalbard Oak	1285x192x8	1514

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Laminate	BerryAlloc	Java Grey	504x84x8	62001164&62001183
Laminate	BerryAlloc	Gyant dark Brown	504x84x8	62002164&62002165
Laminate	BerryAlloc	Charme light Natural	504x84x8	62001166&62001190
Laminate	BerryAlloc	Bloom sand Natural	504x84x8	62002170&62002171
Laminate	BerryAlloc	Legato Natural	504x84x8	K1305
Laminate	BerryAlloc	Legato Light	504x84x8	K1103
Laminate	BerryAlloc	Allegro Natural	504x84x8	K1207
Laminate	BerryAlloc	Allegro Light	504x84x8	K1003
Laminate	BerryAlloc	Allegro Light Grey	504x84x8	K1804
Laminate	BerryAlloc	Allegro Dark Brown	504x84x8	k1613

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Laminate	8MIL	04	1216X196X8	8MIL-04
Laminate	8MIL	03	1216X196X8	8MIL-03
Laminate	8MIL	02	1216X196X8	8MIL-02
Laminate	8MIL	01	1216X196X8	8MIL-01

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Wood	Duke	Augustin Parquet	220x15x2200	DUKE01
Wood	Duke	Barret Parquet	220x15x2200	DUKE02
Wood	Duke	Claude Parquet	220x15x2200	DUKE03
Wood	Duke	Denis Parquet	220x15x2200	DUKE04
Wood	Duke	Ernest Parquet	220x15x2200	DUKE05
Wood	Duke	Tiu Parquet	220x15x2200	DUKE06
Wood	Duke	Vale Parquet	220x15x2200	DUKE07
Wood	Duke	Hoder parquet	220x15x2200	DUKE08
Wood	Homy	HOMI White	190x20x1900	HOMY01
Wood	Homy	HOMI Natural	190x20x1900	HOMY02
Wood	Homy	HOMI Smoked	190x20x1900	HOMY03
Wood	Homy	HOMI Smoky	190x20x1900	HOMY04
Wood	Homy	HOMI Prime	190x20x1900	HOMY05
Wood	Homy	HOMI Rustic	190x20x1900	HOMY06

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Laminate	KRONO	Historic oak	2000x242x12	k5947
Laminate	KRONO	Sundance oak	2000x242x12	k326
Laminate	KRONO	Kings oak	2000x242x12	k329
Laminate	KRONO	Hardy oak	2000x242x12	K5954
Laminate	KRONO	Appalachian Hickory	2000x242x12	K8155
Laminate	KRONO	Solar oak	1285x192x10	405
Laminate	KRONO	Odyssey oak	1285x192x10	416
Laminate	KRONO	Chantilly oak	1285x192x10	5953
Laminate	KRONO	Hardy oak	1285x192x10	5954
Laminate	KRONO	Historic oak	1285x192x10	5947
Laminate	KRONO	Appalachian Hickory	1285x192x10	8155
Laminate	KRONO	Tobacco oak	1285x192x10	8168
Laminate	KRONO	Tawny Chestnut	1285x192x10	5537
Laminate	KRONO	Eurus oak	1285x192x10	406
Laminate	KRONO	Castle oak	1285x192x8	8631
Laminate	KRONO	Blonde oak	1285x192x8	8575
Laminate	KRONO	Harlech oak	1285x192x8	8573
Laminate	KRONO	Colorado oak	1285x192x8	5543
Laminate	KRONO	Boulder oak	1285x192x8	5542

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
SPC flooring	Atwood Floors	Well	1220x180x5.7	SPC-18
SPC flooring	Atwood Floors	Builder	1220x180x5.7	SPC-15
SPC flooring	Atwood Floors	Hero	1220x180x5.7	SPC-14
SPC flooring	Atwood Floors	Premium	1220x180x5.7	SPC-13
SPC flooring	Atwood Floors	South island	1220x180x5.7	SPC-11
SPC flooring	Atwood Floors	Christchurch	1220x180x5.7	SPC-10
SPC flooring	Atwood Floors	Dunedin	1220x180x5.7	SPC-09
SPC flooring	Atwood Floors	Fast	1220x180x5.7	SPC-08
SPC flooring	Atwood Floors	Prime	1220x180x5.7	SPC-07
SPC flooring	Atwood Floors	Auckland	1220x180x5.7	SPC-06
SPC flooring	Atwood Floors	Oak tree	1219x177x6.5	SPC-101
SPC flooring	Atwood Floors	Oak sapling	1219x177x6.5	SPC-102
SPC flooring	Atwood Floors	Oak Depot	1219x177x6.5	SPC-103
SPC flooring	Atwood Floors	Oak town	1219x177x6.5	SPC-104
SPC flooring	Atwood Floors	Oak land	1219x177x6.5	SPC-200
SPC flooring	Atwood Floors	Oak House	1219x177x6.5	SPC-201
SPC flooring	Atwood Floors	Oak Barrels	1219x177x6.5	SPC-202
SPC flooring	Atwood Floors	Oak Box	1219x177x6.5	SPC-203
SPC flooring	Atwood Floors	Oak Cork	1219x177x6.5	SPC-204

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
SPC flooring	WaterPro	PRO-01	1525x228x5.7	PRO-01
SPC flooring	WaterPro	PRO-02	1525x228x5.7	PRO-02
SPC flooring	WaterPro	PRO-03	1525x228x5.7	PRO-03
SPC flooring	WaterPro	PRO-04	1525x228x5.7	PRO-04
SPC flooring	WaterPro	PRO-05	1525x228x5.7	PRO-05

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
SPC flooring	NZCORE	Iron core	1524x228x8	NZCORE01
SPC flooring	NZCORE	Steel core	1524x228x8	NZCORE02
SPC flooring	NZCORE	Copper core	1524x228x8	NZCORE03
SPC flooring	NZCORE	Metal core	1524x228x8	NZCORE04
SPC flooring	NZCORE	Brass core	1524x228x8	NZCORE05
SPC flooring	NZCORE	Gold core	1524x228x8	NZCORE06
SPC flooring	NZCORE	Diamond core	1524x228x8	NZCORE07

Product Type	Product Brand	Product Name	Product Dimensions	Product Code
Veneer SPC	Woodface	Natural oak	1900x190x8	WHS100
Veneer SPC	Woodface	Cream oak	1900x190x8	WHS200
Veneer SPC	Woodface	Smoked oak	1900x190x8	WHS300
Veneer SPC	Woodface	White oak	1900x190x8	WHS400
Veneer SPC	Woodface	Smoked wash	1900x190x8	WHS500

5. D1 Compliance Slip resistance

5.1 Entrance Matting transition Zone in Commercial

- 2.1.6 Except in housing, the transition zone between any part of the access route that is intended to remain dry under normal usage and that part of the access route that may become wet during normal usage shall be provided with:
- a) Water absorbent matting across the width of the effective walkway with a sufficient dimension in the direction of the pedestrian traffic to remove water which may be tracked by footwear, or
 - b) An extension of the wet slip-resistant walking surface for a sufficient distance from the point at which water can be tracked indoors (normally from the entrance portal) to allow water to be shed from footwear, or
 - c) A combination of a) and b) above

Compliance: The entrance mat transitions to the flooring, U-shaped strips, and transition trims can be used to protect the flooring. As shown in the figure.



5.2 Accessible Stairway

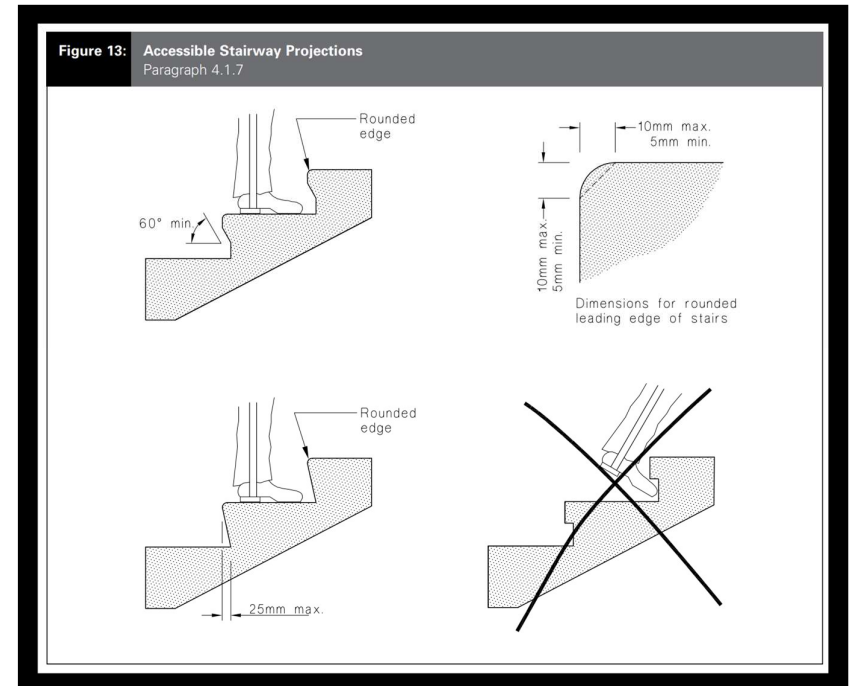
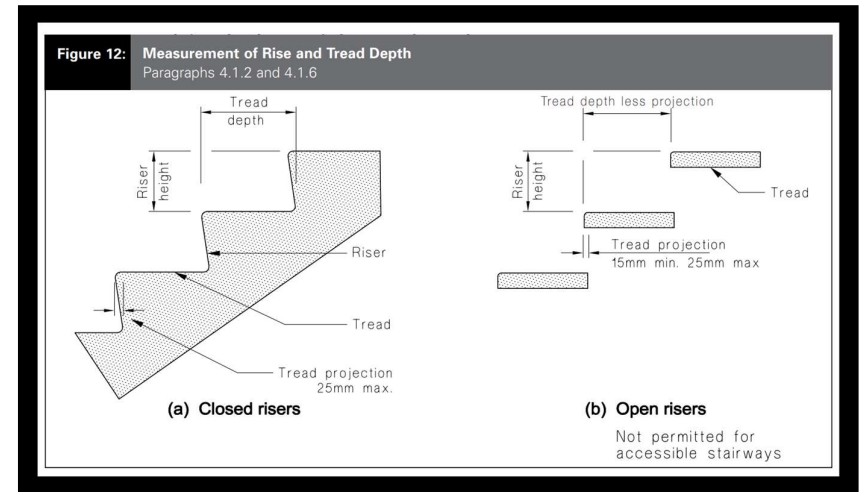
A stairway has features for use by people with disabilities. Buildings required to be accessible shall have at least one accessible stairway leading off an accessible route whether or not a lift is provided.

Service stairs having treads less than 250 mm in depth shall have open risers.

Tread projection – illustrates acceptable projections for the leading edge of successive stair treads. Limiting dimensions are For open risers – 15 mm minimum and 25 mm maximum, For closed risers – nil projection minimum, and 25 mm maximum

Leading edges of treads or nosing's (if any) on accessible stairways shall: a) Be rounded to avoid a sharp edge and Be colour contrasted with the rest of the tread.

Compliance: Please design the stairs according to the requirements shown in the figure below.



5.3 Stairs Slip resistance.

According to Section D1/AS1, HANDBOOK 197 can be consulted for guidance on minimum slip resistance values in different areas, based on the Wet Pendulum test carried out in accordance with AS 4586.

HANDBOOK197 Wet Pendulum Slip Resistant Value Classification		
Slip resistant Value (AS4586 Slider 96)	Classification	Necessary to use slip-resistant stair nosing.
<12	Z	Yes
12-24	Z	Yes
25-34	Y	Yes
35-44	X	No
45-54	W	No
>54	V	No

HANDBOOK197 Dry Areas Classification		
Dry Areas	Classification	
Accessible internal stair nosing handrails present	X	

Wood Flooring Wet Pendulum Slip Resistant Value Classification		
Brand Name	Classification	Necessary to use slip-resistant stair nosing.
Atwood floors	X	No
Antico	X	No
Barlinek	Y	Yes
Duke Wood	X	No
GL Wood	X	No
HOMY Wood	X	No

SPC Flooring Wet Pendulum Slip Resistant Value Classification		
Brand Name	Classification	Necessary to use slip-resistant stair nosing.
Atwood	X	No
NZCORE	X	No
WaterPRO	X	No

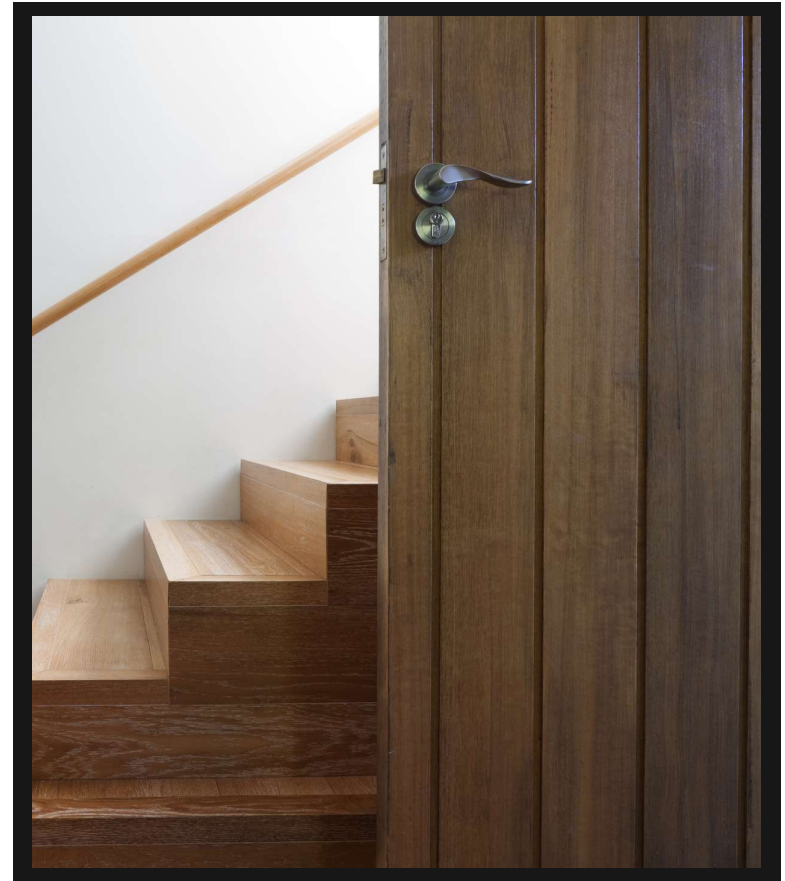
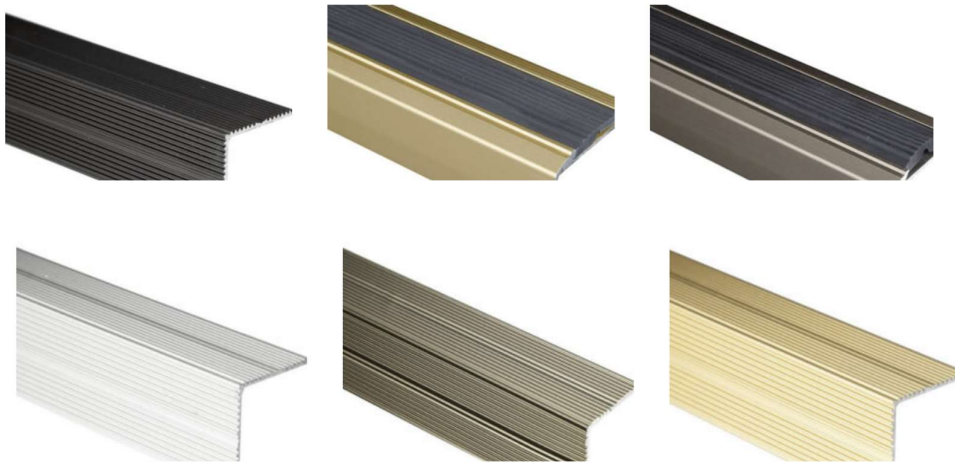
Wood Flooring Wet Pendulum Slip Resistant Value Classification		
Brand Name	Classification	Necessary to use slip-resistant stair nosing.
BinyPRO	X	No
Berryalloc	Y	Yes
Stepcasa	X	No
8Mil	Z	Yes
KRONO	Y	Yes

Wood Flooring Wet Pendulum Slip Resistant Value Classification		
Brand Name	Classification	Necessary to use slip-resistant stair nosing.
Woodface	X	No

5.4 Slip-resistant stairs Accessory

When there is a need for more slip-resistant stairs nosing, the following 2 methods can be chosen to help make it more slip-resistant.

- Slip-resistant Aluminum stairs nosing accessories. When selecting stair accessories, compliance with the following standards and guidelines is essential:
 - ✓ NZBC D1/AS1 for Accessibility and Mobility,
 - ✓ NZS 4121 for Structural Design Requiring Stair Nosing and Treads
 - ✓ AS/NZS 4586:2013 for Slip Resistance Classification of New Pedestrian Surface Materials.



- The anti-slip coating for wood flooring, laminate, SPC, and VSPC provides slip resistance, making them an ideal solution to ensure the safety of individuals traversing wet areas or rooms with slippery surfaces. If needed, feel free to contact our customer service.

6. E3 Compliance Wet areas

NZ BUILDING CODE was changed on 05.11.2021. E3/AS1 SECTION 3.0 OF The building code covers water splash just three suitable floorings listed in 3.1.1 Floors. The most impact relates to the kitchen, bathroom, toilets, and laundry use of flooring products will need to be covered by an Alternative Solution to meet building requirements.

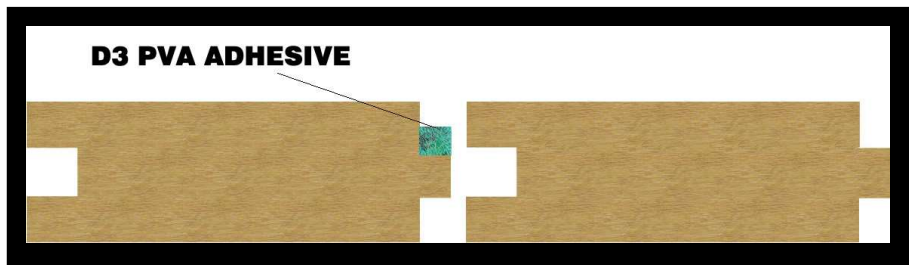
SPC Flooring, Laminate Flooring, VSPC Flooring, and Wood Flooring can achieve compliance with E3 through the following two methods:

- ✓ Alternative Solution (D3 PVA Joints/Caulk Perimeter); or
- ✓ E3/AS2 (Wet Area Membrane)

6.1 Alternative Solution (D3 PVA Joints/Caulk Perimeter)

Sealing flooring product joints with D3 PVA and sealing the perimeter with Caulking within the Wet Area. All FLOORCO flooring products have tested to ISO4760, This alternative solution proves they are impervious. Refer to **Alternative Solution Guidance** and **Overlay Wood Flooring System Installation Guides**.
<https://floorco.co.nz/wooden-install-instructions/>

When installing in wet areas, it's essential to fully apply D3 PVA adhesive at the joints of the floor, whether it is a floating installation or a glue-down method. This is a crucial step to meet the E3 Alternative Solution requirement.



6.2 Overflow

In order to prevent leaks from damaging adjacent properties, multi-dwelling buildings (both residential and commercial) necessitate the consideration of overflow provisions.

E3/AS1 2.0.1 If a sanitary fixture is located where an accidental overflow could damage an adjoining household unit or other property, then Containment and floor wastes that meet the requirements of Paragraphs 2.1.1 and shall be provided, or the exemption for household kitchen sinks and laundry tubs with integrated overflows that meet Paragraph 2.0.2 shall apply.

When in effect, the overflow clause in E3/AS1 requires, Floor Coverings 75mm at Wall Junctions and Floor wastes provided to satisfy Paragraph 2.0.1 b) shall comply with NZBC Clause G13. A graded floor is not essential in this situation.

We recommend that the comply with the exemption provided under E3/AS1 2.0.2.

Household kitchen sinks and laundry tubs that have an integrated overflow with a minimum flow rate of 0.25 l/s do not require additional overflow provisions such as containment and a floor waste where:

- a) The maximum flow rate from the inlet tap(s) is less than the flow rate of the integrated overflow for that sink or tub, or
- b) The water supplies to the inlet tap(s) for that sink or tub are fitted with proprietary flow restrictors (such as cartridges) to limit the tap flow rate to less than the flow rate of the integrated overflow for the sink or tub.

Building type	Alternative solution	E3/AS2
Single-Dwelling	Yes	Yes
Multi-Dwelling Flow rate of tap less than overflow rate of sink or tub	Yes	Yes
Multi-Dwelling Flow rate of tap more than overflow rate of sink or tub	No	Yes

6.3 Wet Areas Membrane System E3/AS2

Note: wet areas membrane system is used for wet areas such as kitchens, bathrooms, toilets, and laundries.

The "wet areas waterproof membrane" is a pathway to comply with the E3 building code and is suitable for most Substrates.

Refer to the [Code of Practice for Internal Wet-area Membrane Systems](#) for more information.

Submit in compliance with E3/AS2 by designating a Wet Area Membrane following the "Code of Practice for Internal Wet-area Membrane Systems" the membrane should be laid under when the flooring will be placed.

For the environments where Wet-area Membrane Systems are used, please refer to the table below:

Substrate	Wet area membrane systems
Concrete – slab-on-Grade or suspended	Yes
H3 Treated plywood	Yes
H1.2 Solid Pinus / H1.2 Douglas Fir	Yes
Existing Solid Native Timber	Yes
Particle board / Oriented Strand board	No
Untreated Plywood or other subfloors	No

Note:

By E3/AS2 solution states, "Particleboard must not be used as a new substrate in any wet area", and so should not be specified for use in any new construction in wet areas.

6.3.1 Before Installation

Before installing the Wet-area membrane system, the subfloor should be prepared in accordance with these guidelines.

- ✓ Ensure that the wet-area membrane is compatible with the flooring.
- ✓ Ensure that the wet-area membrane is compatible with sealers, leveling agents, adhesives, and moisture-proofing.
- ✓ Install in accordance with E3/AS2 requirements.

6.3.2 During Installation

- ✓ When installing on wet-area membrane systems, please adhere to the following guidelines:
- ✓ Humidity Test: Ensure a reading of RH 70% or lower.
- ✓ Ensure the subfloor is level, dry, clean, and structurally sound.

6.3.3 Wet Areas Detailed Guidelines

When installing, please ensure strict adherence to the '[Code of Practice for Wet Area Membrane Systems](#).' This will ensure the installation's compliance.

1) Water-stop at the termination of the waterproof membrane system

- ✓ Figure 14: Water-stop at termination of waterproof membrane system
- ✓ Figure 18: Plan view of water-stop under a door jamb
- ✓ Figure 19: Elevation/edge of door jamb with water-stop under door
- ✓ Figure 20: Face of door jamb with water-stop under door

2) Cabinetry Water-stops

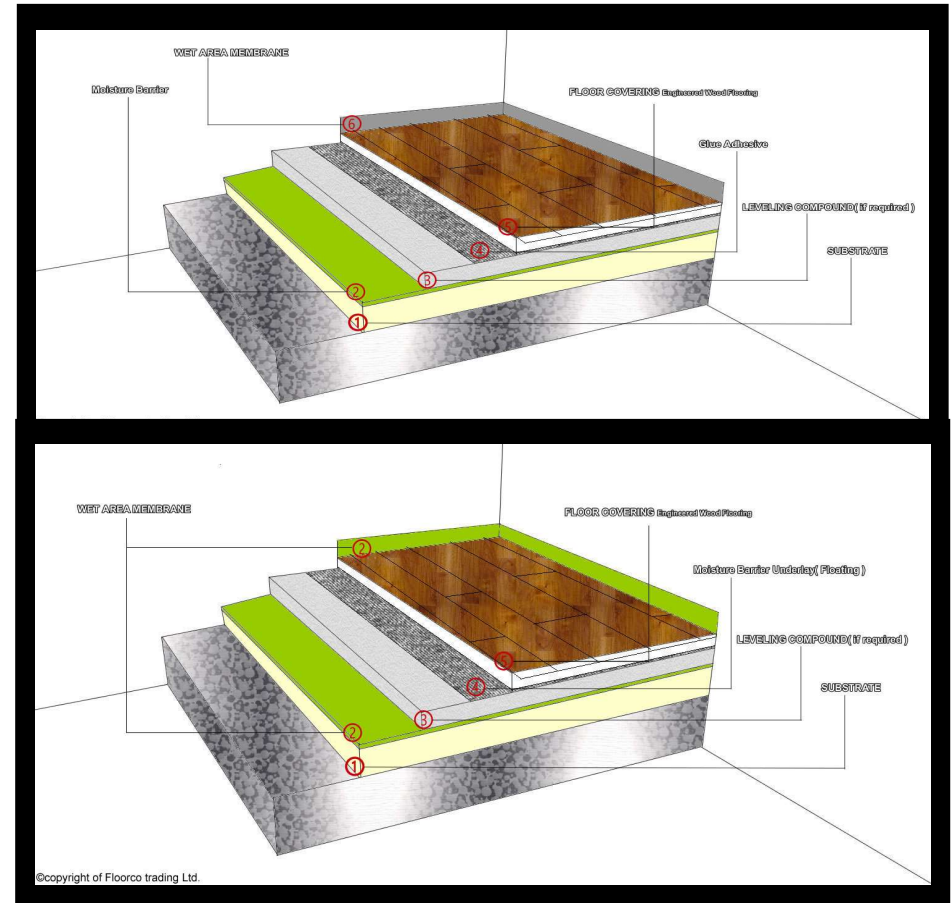
- ✓ Figure 15: Waterproof membrane system installed before cabinetry
- ✓ Figure 16: Tiles and waterproof membrane system under cabinet
- ✓ Figure 17: Waterproof membrane system installed after cabinetry

3) Floor-to-wall Junction.

- ✓ Figure 21: Waterproof membrane system behind skirting – up to 75mm

4) Penetrations for Piped Services

- ✓ Figure 27: Waterproof membrane system into floor waste outlet
- ✓ Figure 28: Pipe penetrations



6.3.4 Wet Areas Membrane System Figures

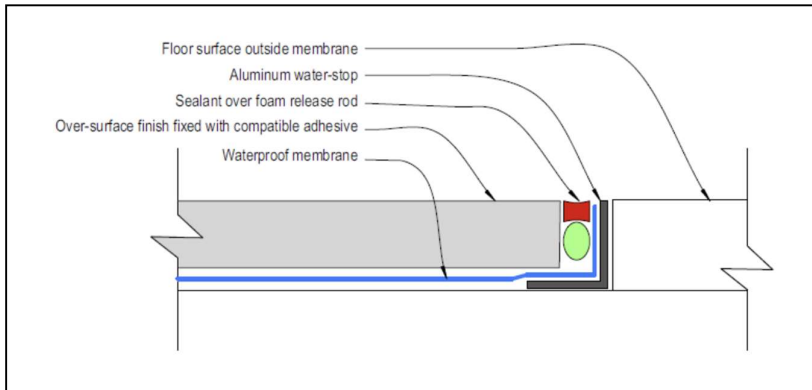


Figure 14: Water-stop at termination of waterproof membrane system

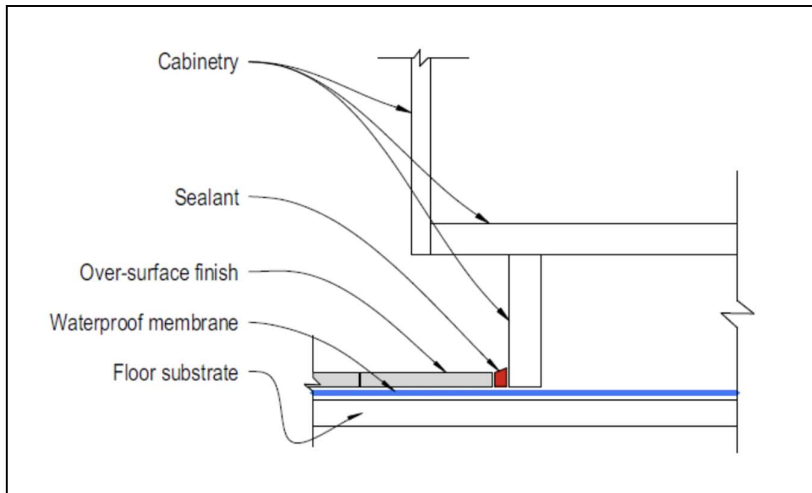


Figure 15: Waterproof membrane system installed before cabinetry

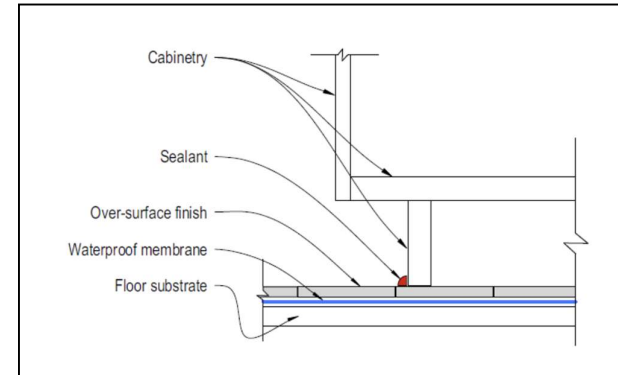


Figure 16: Tiles and waterproof membrane system under cabinet

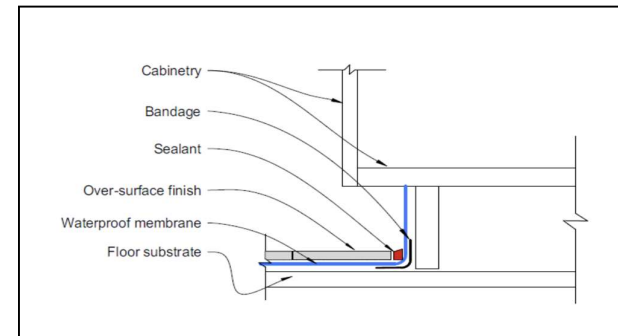


Figure 17: Waterproof membrane system installed after cabinetry

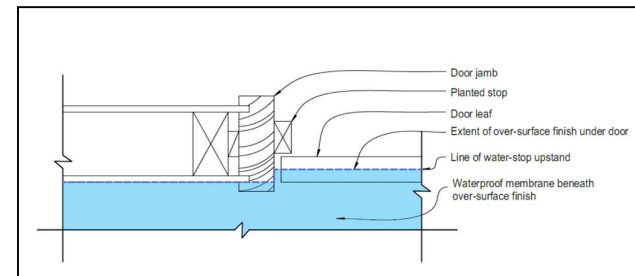


Figure 18: Plan view of water-stop under a door jam

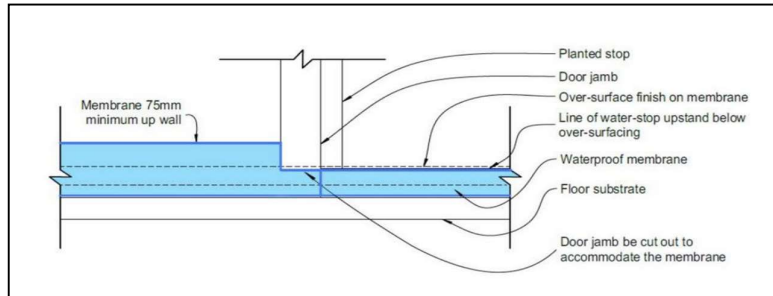


Figure 19: Elevation/edge of door jamb with water-stop under door

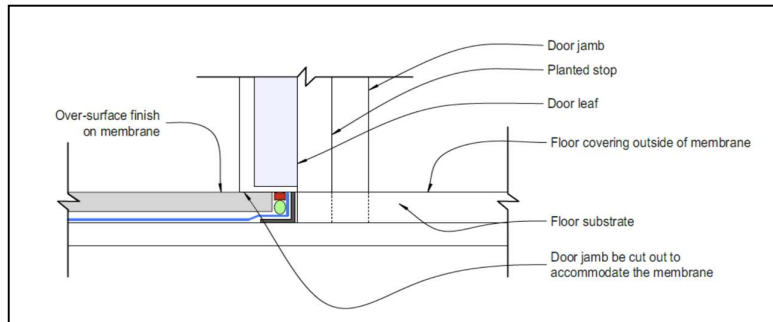


Figure 20: Face of door jamb with water-stop under door

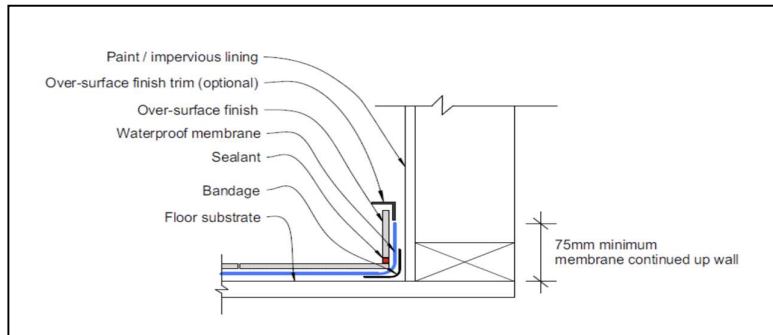


Figure 21: Waterproof membrane system behind skirting

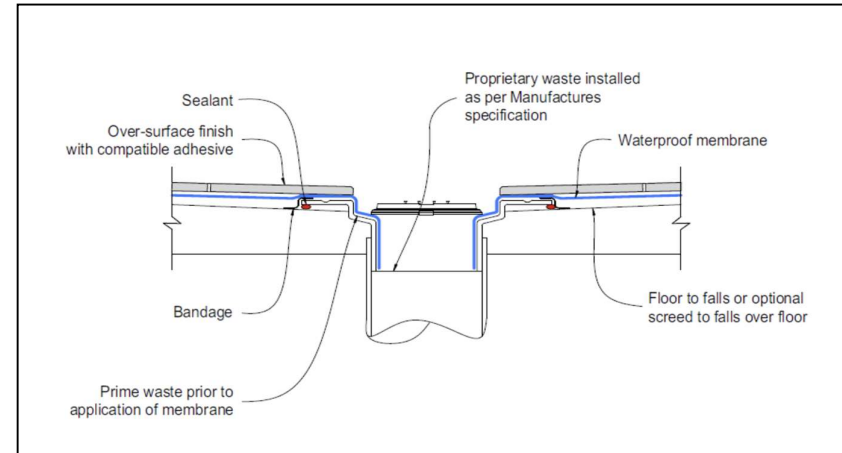


Figure 27: Waterproof membrane system into floor waste outlet

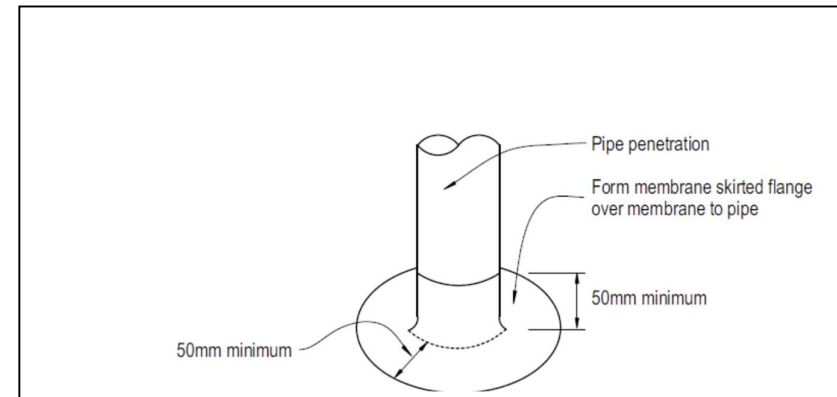


Figure 28: Pipe penetrations

7. Underfloor Heating

Before the installation, please ensure that the flooring chosen for installation is compatible. Install underfloor heating, preparation as per this guide is necessary. Additionally, we recommend the flooring installer to liaise with the underfloor heating contractor to ensure correct installation.

- ✓ If there's a conflict between the guidelines of the underfloor heating manufacturer and this guide, always follow the guidelines of the underfloor heating manufacturer.
- ✓ The temperature of the underfloor heating system should not exceed 27°C.
- ✓ turned on prior to installation of the floor covering for a minimum of seven days to assist with the acclimatization of the substrate.
- ✓ When the underfloor heating system is restarted after being turned off, the temperature should be gradually increased to reach 27°C over a period of 4-5 days.
- ✓ Do not frequently adjust the temperature of the underfloor heating system, it is permissible to decrease or increase the temperature by a maximum of 2°C per day. NZS AS1884:2013
- ✓ The temperature should be maintained at 15°C during the flooring installation, and this temperature should be sustained for at least 48 hours post-installation.
- ✓ the presence of underfloor heating and security systems shall be checked and all preliminary work, such as the fixing of floor sockets for service plugs, shall be completed.
- ✓ Perform a concluding inspection to ascertain that the substrate is thoroughly dry, clean, level, devoid of any cracks, and structurally robust prior to advancing with the installation.

7.1 Hydronic

- ✓ The elevation of the slab surface from the heating tubes should not be less than 30mm, with a recommended thickness of 60mm.
- ✓ The distance (width) between heating tubes should not exceed 150mm.
- ✓ Before installing the flooring, please ensure that the humidity of the ground is no higher than 15%, and moisture should comply with the requirements of section 5.1 in this guide.

7.2 Electric

- ✓ Installers need to ensure that this product is suitable for use with underfloor heating systems.
- ✓ ensure that the screed is at least 8mm above the wires.
- ✓ Before initiating the installation, it is imperative to test the substrate, which should exhibit a reading of 70% Relative Humidity (RH) or below.
- ✓ The installation must ensure that the subfloor is structurally sound and meets the good requirements of section 5.2 in this guide.

Note:
Should any of the aforementioned points be unachievable, please cease installation immediately. Forcing installation implies subsequent unknown risks; please contact us.

8. Acoustic Underlay

8.1

Before Installation

- ✓ Prior to the installation of the acoustic underlay, please prepare according to the " Substrate Preparations " section of this guide.
- ✓ The flooring installer can carry out the installation of this acoustic underlay and can inspect that the subfloor has been adequately prepared.

8.2

During Installation

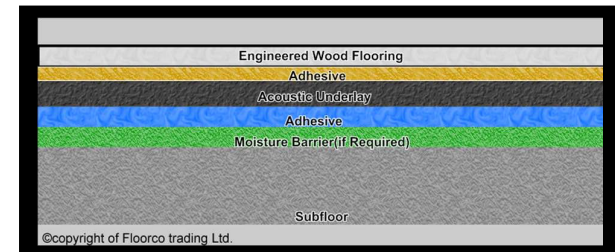
- ✓ Adhere to the moisture test requirements, no higher than 70% Relative Humidity. and humidity within 15%.
- ✓ Also, follow the requirements for leveling evenness.
- ✓ Fully glue use a notched trowel to spread the glue evenly over the subfloor.

Note:

If the above instructions cannot be adhered to due to special circumstances, please refrain from installing the acoustic underlay or flooring. Should any of the aforementioned points be unachievable, please cease installation immediately. Forcing installation implies subsequent unknown risks; please contact us.



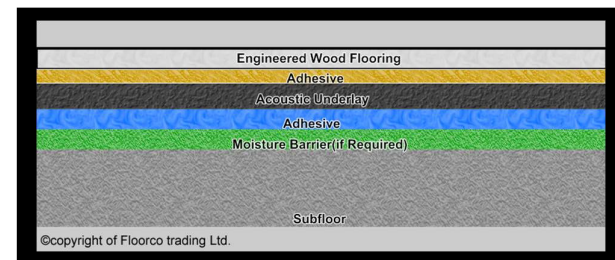
Fully Glue-down Wood flooring



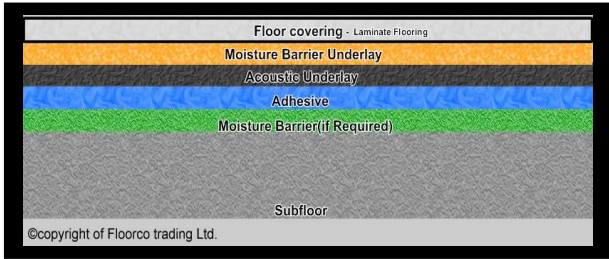
Fully Glue-down Wood flooring



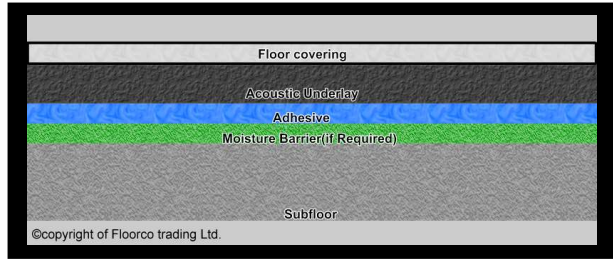
Floating Wood flooring



Floating Wood flooring



Floating Laminate flooring



Floating SPC flooring



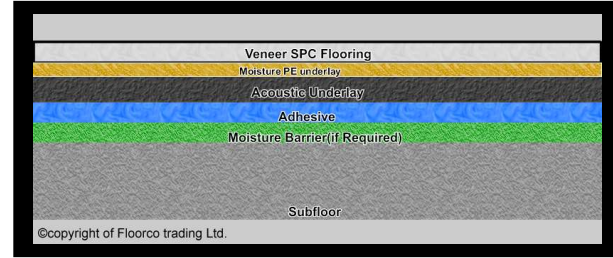
Floating Laminate flooring



Floating Veneer SPC flooring



Floating SPC flooring



Floating Veneer SPC flooring

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