

# Angle-Tap Installation Instructions

## General Guidelines

**AquaSmart is a new generation hybrid product designed as a waterproof floating floor blended with the superior sound reduction and resilient qualities of a premium Luxury Vinyl Plank. It achieves a tight bond between planks without the use of any adhesive, and is suitable for laying over most subfloors.**

Some common-sense precautions need to be followed:

1. All planks leaving our factory are subjected to vigorous batch controls as well as checks for visual defects. Nevertheless, as a precaution, check for any visible defects and discard any planks you may perceive to be imperfect.
2. AquaSmart should only be installed in interior spaces within the temperature range of 10°C - 35°C. Humidity is of no concern unlike standard floating floors. The flooring to be installed must be conditioned to be within the same temperature band.
3. If product is to be laid from different batches, it is essential these batches be well blended to ensure a uniform visual.

## Subfloor Information

Although AquaSmart is designed as a floating floor installation, correct preparation of the subfloor is still important. Roughness or unevenness of the subfloor may transmit through to the new floor, resulting in an unsightly floor surface and cause excessive wear on high spots or indentation on low spots. Furthermore, an uneven subfloor may cause end joins to separate. This event is not covered by the warranty.

All subfloor and underlayment patching must be done with a non shrinking, water resistant cement patching compound.

### General Subfloor Requirements

The subfloor should be prepared in accordance with Australian Standard AS1884: 2012. Installation should be carried out on a flat, clean, dry and solid subfloor free from cracks and holes.

A level subfloor is defined as:

1. Smoothness:

When a straight edge 150mm long is placed at any position at rest at two points on the surface, a gap should be no greater than 1mm below the straight edge.

4. Always allow a 3.0mm expansion gap to give the floor room to expand into with higher temperatures. If the installation temperature is close to the maximum installation temperature, install the planks closer to the wall to allow some room for shrinkage within the expansion gap. If towards the lower end of the temperature range, install the planks 0.5mm inside the expansion gap so as to still leave 2.5mm for expansion. Any installation exceeding 8 metres in length will require an internal expansion gap. Expansion gaps can be achieved in one of 3 ways:

- i. Undercutting which is the preferred method.
- ii. Scotia
- iii. Trims

5. The completed floor should be protected from direct sunlight. This is for 2 reasons:

- i. To protect from fading.
- ii. To ensure the planks are not subjected to excessive temperature.

2. Planeness:

When a straight edge 2000mm long is placed at any position at rest at two points on the surface, no part of the surface shall be more than 4mm below the straight edge.

### New Concrete Subfloor Preparation

1. The areas should be carefully prepared and free from any dirt, cement laitance, cleaning products, or any other foreign material.
2. Screed may need to be applied as follows:
  - a. Cracks to be filled before applying a coating of screed.
  - b. Construction joints should be treated the same as cracks.
  - c. Apply a coating of a self leveling screed if the subfloor is not smooth and even (as defined previously).
3. New concrete subfloors must be dry and fully cured before applying a screed. Please follow the recommended instructions provided by the screed manufacturer.

## Existing Subfloor/ Covering

1. AquaSmart can be installed over most existing hard surface flooring provided the existing floor surface is smooth and even (as defined previously).
2. If the subfloor is not compliant with these requirements, remove any existing covering and prepare the subfloor as specified previously and in accordance with AS1884:2012.
3. When installing over ceramic tiles a leveling compound should be used to smooth out grout joints.
4. When installing over timber floors a hardboard or ply overlay will be required if the timber floor is not in accordance with Australian Standard AS1884:2012.
5. Cushion Vinyl is not suitable to be installed over and should be removed from the subfloor.
6. Prior to installation, inspect planks in daylight for visible faults/damage. If you are not satisfied do not install, and contact your supplier.

## Installation

### Plank Layout

Do not secure individual planks of AquaSmart to the subfloor as it is designed to be a floating floor. All door jambs should be undercut and cabinets cannot be installed on top of AquaSmart. Wall mouldings and transition strips should be installed at any exposed plank edges but should not be fastened in any way to the planks themselves.

1. First determine which direction the floor is to run. Typically for plank products, the flooring runs the length of the room. This is particularly preferable if the room is rectangular and runs into a hallway. There may be exceptions since this is all a matter of preference.
2. Before laying, measure the room at right angle to the direction of the planks. For the best visual effect, planks in the final row should be at least 1/3 the width of a plank. For this purpose, planks in the first row can be cut to a smaller size.
3. Shuffle planks from several cartons in order to obtain a pleasant blend of shades and textures. Lay planks preferably following the direction of the main source of light. We recommend laying on wooden floors crossways to the existing floorboards.
4. To avoid narrow plank widths or short plank lengths near the walls and doors, it is important to do some pre-planning.  
Using the width of the room, calculate how many full boards will fit into the area and how much space remains that will need to be covered by partial planks. Divide the remaining space by two to calculate the width of the partial planks. Do the same along the length.

#### Note

If the first row of planks does not need to be trimmed in width, it will be necessary to cut off the unsupported tongue so that a clean, solid edge is towards the wall.

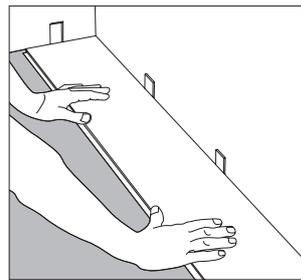
5. For rooms with good ventilation, window coverings and no excessive temperature fluctuations - install planks allowing for a 3mm expansion gap against all fixed vertical parts such as walls, doors, cabinets, etc. This gap will need to be covered by a trim or scotia of choice, noting that the planks must be free to expand into the gap. The scotia or trim should not be fixed directly to the plank.

5. For surface areas greater than 80m<sup>2</sup> or 8 metres in length or width, a suitable expansion joint must be fitted.

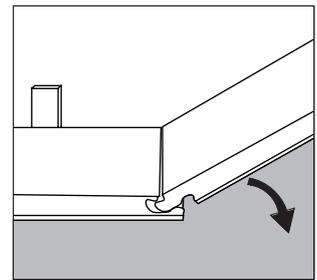
#### Note

AquaSmart is designed for use in a temperature controlled environment. It will accommodate temperatures from 5°C through to 38°C. It should not be used in any application where the internal temperature will be outside these parameters. The planks must be protected from direct sunlight at all times.

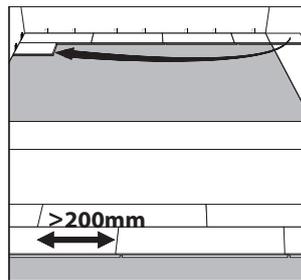
## Angle-Tap Installation



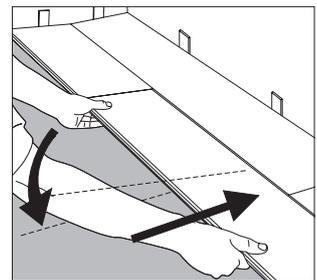
**Step 1:** Begin installation working from left to right. Insert spacers at ends and edges where planks meet wall.



**Step 2:** Lock short end of plank by inserting tongue into groove at an angle and drop in place. Continue to end of first row.

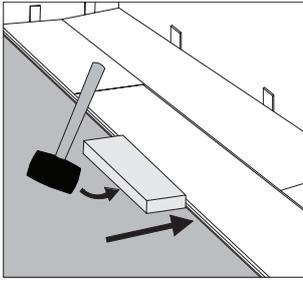


**Step 3:** Use leftover plank from first row as starter for second row. There must be at least 200mm between plank end joints on adjacent rows.

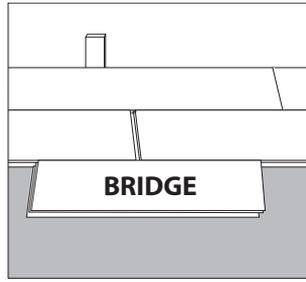


**Step 4:** Lock long edge of plank by inserting tongue into groove at an angle and drop in place.

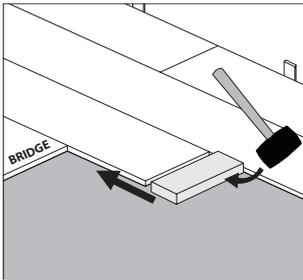
Slide plank toward end of previously installed plank until the tongue just touches the groove.



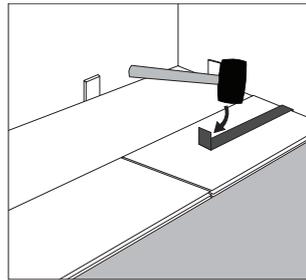
**Step 5: IMPORTANT!** Use hammer and tapping block to tap long edge of plank to ensure a tight fit. **ANY GAPPING CAN COMPROMISE THE LOCKING SYSTEM!**



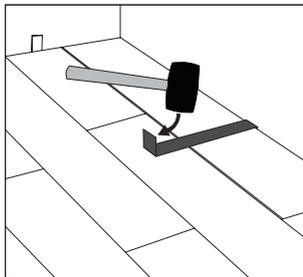
**Step 6:** Attach a scrap piece of floor to bridge gap between ends of planks.



**Step 7:** Tap end of plank with hammer and tapping block to lock ends of planks together. Remove bridge and continue towards wall until installing the final plank in the row. **BE SURE TO TAP ON EDGE OF VINYL SO AS NOT TO DAMAGE LOCKING PROFILE.**

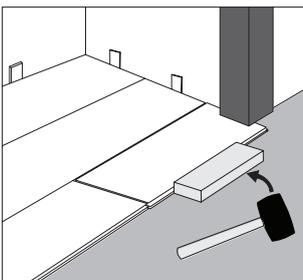


**Step 8:** Use hammer and pull bar to lock final piece in row. Insert spacer at end of row. Continue installation to final row.

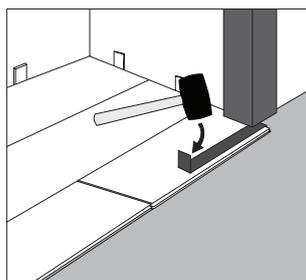


**Step 9:** Use hammer and pull bar to lock long edges of planks on final row.

## Installing Under Door Jambs:



**Step 1:** Undercut space under door jamb to allow plank to slide freely. Tap long edge with hammer and tapping block to lock long edge.



**Step 2:** Use hammer and pull bar to lock short end of plank.

## In-floor Radiant Heat

AquaSmart can be installed over radiant heat using the floating or glue down method. When gluing floors, use only Kenbrock Evagrip adhesive over manufacturer's recommended substrate.

- Turn the heat off for 24 hours before, during and 24 hours after installation when installing over radiant heated subfloors.
- Floor temperature must not exceed 30°C.
- Failure to strictly follow adhesive manufacturer's guidelines may result in failure and void the warranty.

**Warning:** Electric heating mats that are not embedded into the subfloor are not recommended for use underneath AquaSmart floors. Using electric heating mats that are not embedded and applied directly underneath AquaSmart floors could void the warranty for your floor in case of failure. It is best to install AquaSmart flooring over embedded radiant floor heating systems and adhere to the guidelines listed above.

## Plank Repairs

In the unlikely event that a AquaSmart plank is damaged for whatever reason, the simplest method is to disconnect the planks carefully (protecting the tongue and groove edges) until the damaged plank can be removed.

Then replace the damaged plank with a new one and reassemble the disconnected planks. This typically works for planks that are closest to the two long walls of a room.

For damaged planks that are not close to the perimeter, you may have to remove the damaged planks and insert new pieces without the short and long end grooves.

1. Using a sharp utility knife and a straight edge, cut out the centre of the damaged plank by leaving approximately 25mm strip attached to the adjacent planks.
2. Carefully cut back from the four corners of the plank to the inside edges in space left by the cutout plank.
3. Remove the plank edges carefully from of the adjacent planks making sure the tongues and grooves of the adjacent planks are not damaged.
4. Using a utility knife, remove the tongue strip on both the long and short ends of the replacement plank. In addition, remove the groove strip of the short end of the replacement plank.

5. Place some double sided carpet tape along the three sides of the adjacent planks where the tongues and the groove of the replacement plank have been removed. Only the top side release paper of the carpet tape should be removed. The bottom side release paper should NOT be adhered to the subfloor.

6. Position the replacement plank by engaging the groove of the long side into the tongue of the adjoining plank and pushing down on the other three sides. The carpet tape will hold the replacement plank in place with its adjacent planks. Use a handroller to further secure the tape.

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## Maintenance Considerations

Clean up spills immediately. Using a damp mop, lightly wash floor regularly with warm water and Kenbrock Maintain. Do not use bleach based soap based detergents or abrasive cleaners.

To avoid possible permanent indentation or damage, proper floor protection devices must be used under furniture and appliances. Exercise care when removing and replacing furniture or appliances.

These instructions are general guidelines for the proper procedures for installing and maintaining this flooring product. Please refer to the AquaSmart Cleaning and Maintenance guide for more detailed maintenance information