UNILIN
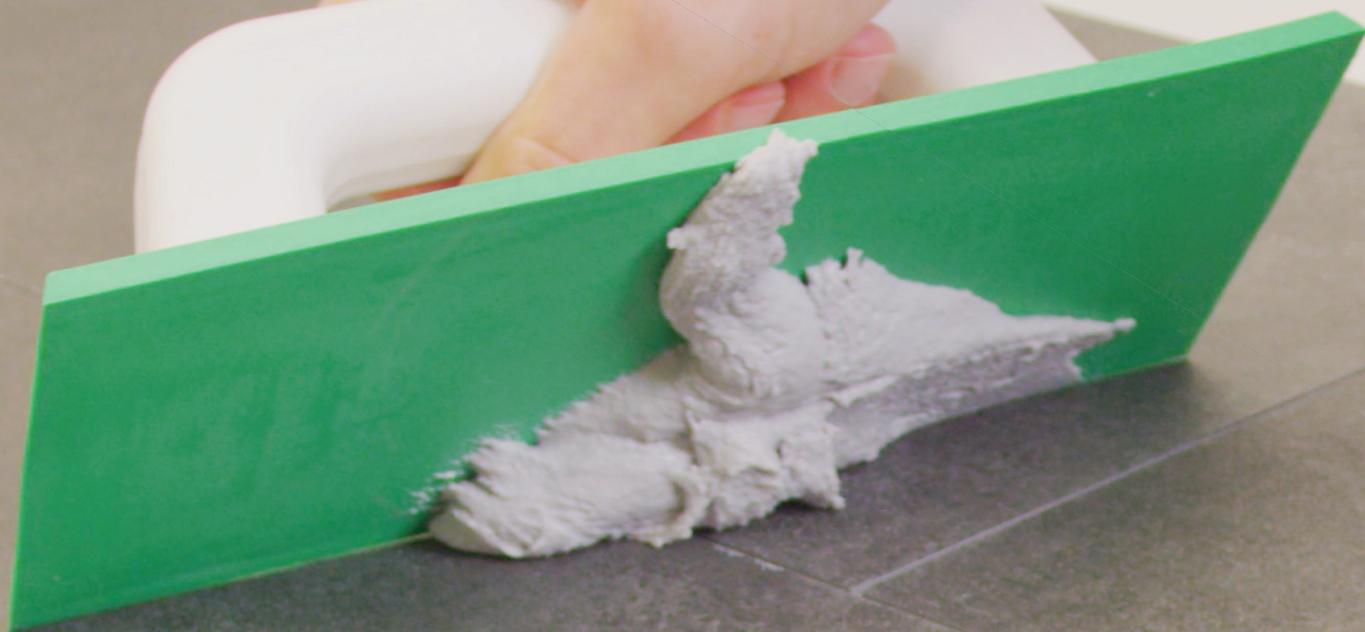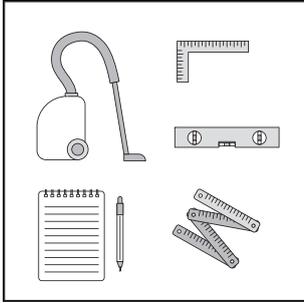
Installation guidelines
angle and grout

ROWS AND CHECKERBOARD INSTALLATION
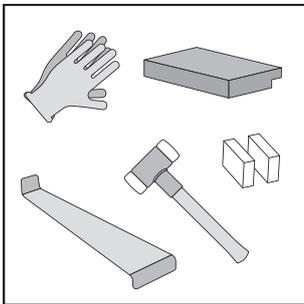
FLINTILE
PATENTED TECHNOLOGY ®
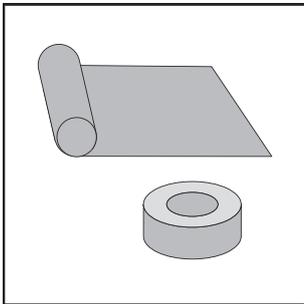
Preparation
Tools

ROOM PREPARATION

- Pencil and notepad
- Tape measure / Folding rule
- Steel square / Bevel tool
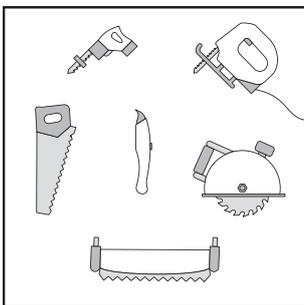- Level
- Vacuum

DURING INSTALLATION

- Hard mallet
- Tapping block for locking systems
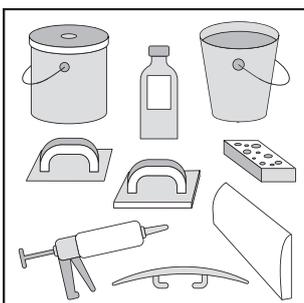- Pull bar
- Spacers
- Gloves

If the panels do not have a pad pre-attached:

- Underlay
- Tape (to fix your underlay)

CUTTING THE PANELS

- Handsaw / jigsaw / crosscut saw / plunger saw / table saw
- Concave cutter knife

FINISHING THE ROOM

- Grout
- Bucket
- Sponge and felt pad
- Grout float
- Grout cleaner
- Skirting and silicon kit
- Expansion / adapter / end profiles

≋ **UNILIN**   INSTALLATION GUIDELINES

Preparation
The room

CLEAN SLATE

- Remove skirtings
- Remove all soft flooring (e.g. carpet)
- Make sure the sub-floor is dry and free of any grease, chemical residue or glue
- Ensure a level and dry surface, smooth out bumps or irregularities
- Vacuum thoroughly to remove all debris and dust
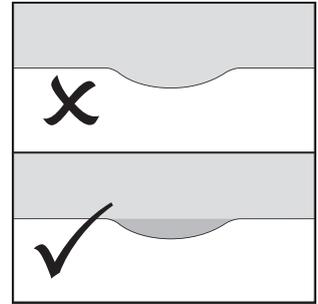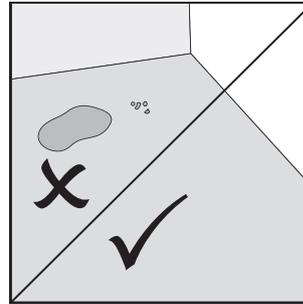
CALCULATE SURFACE AREA

- Width x Length + 10-20% cutting waste
- Make accurate measurements to ensure a smooth installation
- Take notes to avoid mistakes
- Plan the flooring along the longest wall or in the direction of the light for the most pleasing visual appeal.

Length

Width

L x W + 10-20 %

Longest wall
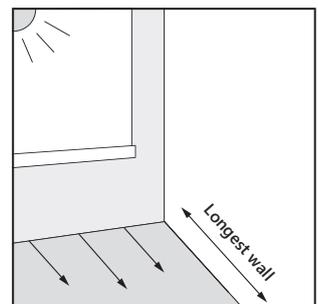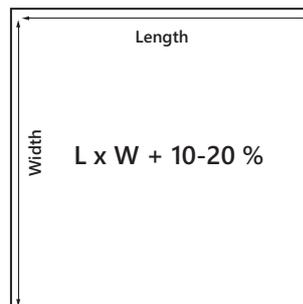
CALCULATE THE AMOUNT OF ROWS

- Divide the room width by the board width

$$\frac{\text{Room width}}{\text{Board width}}$$

- Distribute the remaining space evenly between the start and end rows. Ensure that each piece is at least 5 cm wide.

Width

Panel width

> 5 cm

> 5 cm
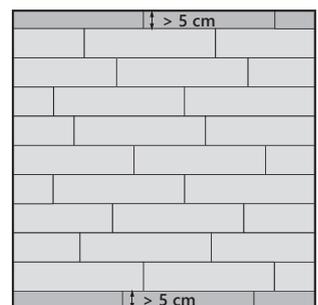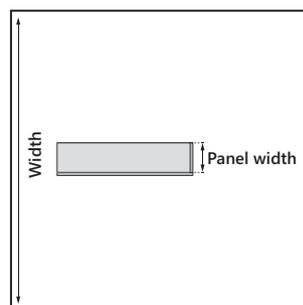
PREPARING THE PANELS

- Acclimatize the panels in the middle of the room for 48 hours in the box
- Make sure to follow the instructions on the box before beginning the installation
- Shuffle panels from different boxes to ensure an even distribution of color and pattern
- Inspect the panels for damages
- Use an underlay if there is no pad attached

48H

14-30°C
59-86°F

Underlay

Pad attached
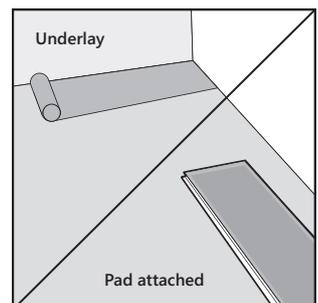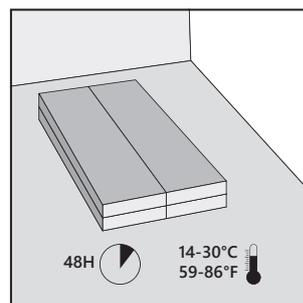
Installation
Locking

Angle-angle installation is recommended for most of the room, with edge panels finished by tapping. The tongue-and-groove method is the most commonly used and easiest to install.
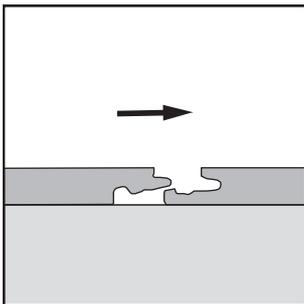
INSTALLATION METHOD A: ANGLE
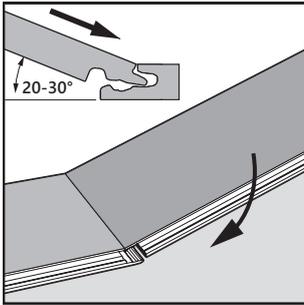
Start on the short side. Position the panel at an angle of 20-30° to the panel that is already installed, and angle down.
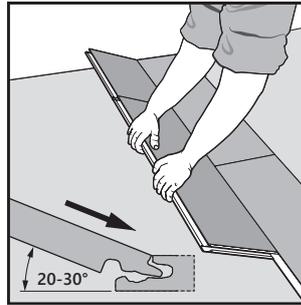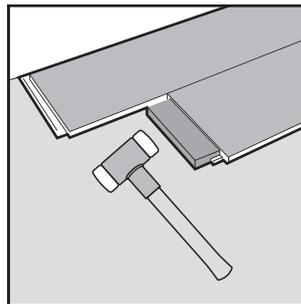
Place your hands close to the joint and move the panel up to an angle of 20-30°. Pull the panel towards the installed panels and angle down.
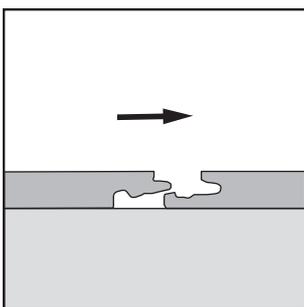
INSTALLATION METHOD B: TAP

For hard to reach panels, use the tapping method. If possible, angle in one of the sides. Angle down and position the click systems as close as possible.
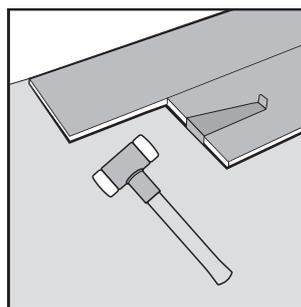
Use a tapping block and position it against the locking system. Gently tap the block with a hammer to gradually connect the panels in a few taps.
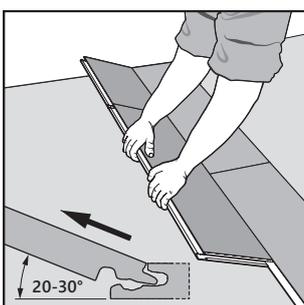
FOR HARD TO REACH AREAS

For areas where it is not possible to use angling or a tapping block, such as the end panels against the wall, use the pull bar. Start when the panels are flat on the floor.
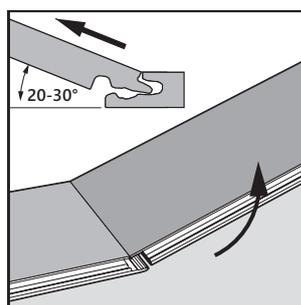
Use a pull bar and position it against the locking system. Gently tap the pull bar with a hammer to gradually connect the panels in a few taps.

DE-INSTALLING THE PANELS

Start by angling out the complete row on the long side of the panel by lifting up to about 20-30°.
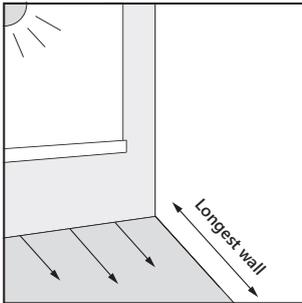
Angle up the end of the panel to angle out the short side.
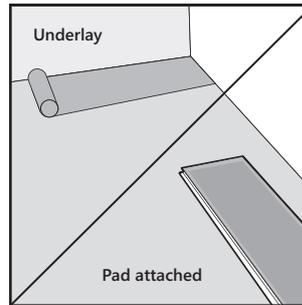
Installation
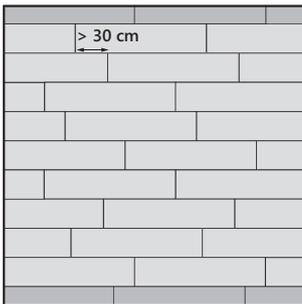# Rows start

DIRECTION OF THE ROWS

Plan the floor along the longest wall or light direction for the most pleasing visual appeal.
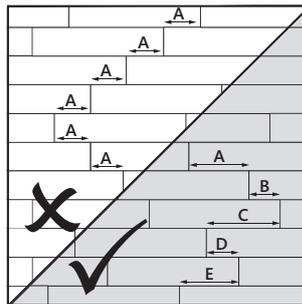

If there is no pad attached to the panels, roll out the underlay in the same direction of the floor.
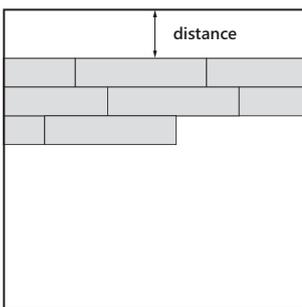
STAGGERING

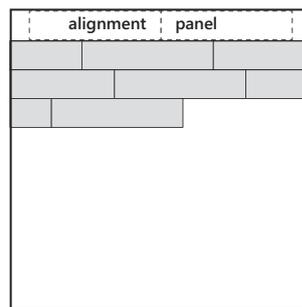Make sure the panels always stagger for at least 30 cm.

Stagger the panels randomly to avoid a staircase pattern and ensure a strong click connection.
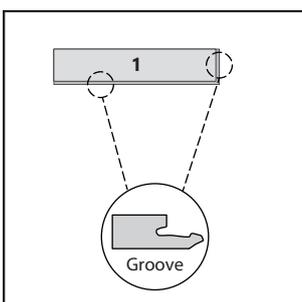
START POSITION

Option 1
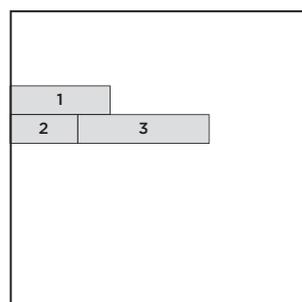Start by laying the first row at a little distance from the wall.

Option 2
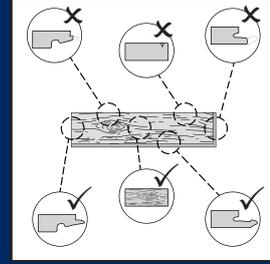Use a few floor panels as a tool to align the first row.

FIRST PANELS

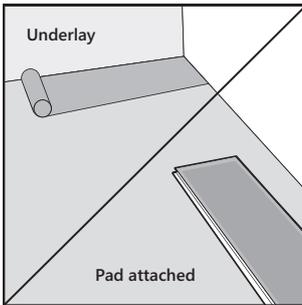Start by positioning the first panel with the groove sides pointing away from the start walls.

The first panel will serve as a base to install panels two and three.

Installation
First rows

Check all panels before and during installation for damage or visible defects.
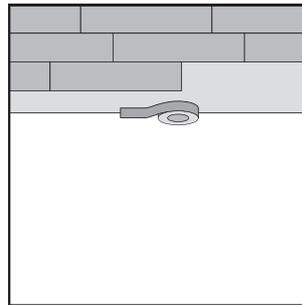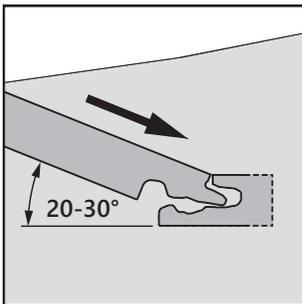
UNDERLAY

Check to see if there is a pad attached to the back of the panels.

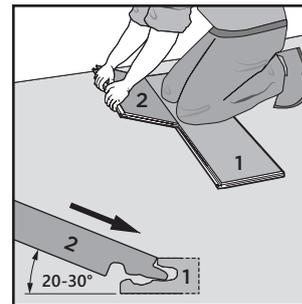If a pad is attached, an underlay is not needed.

Lay the underlay parallel to the floor direction during installation. Start each new row of underlay upon reaching that point in the floor installation.
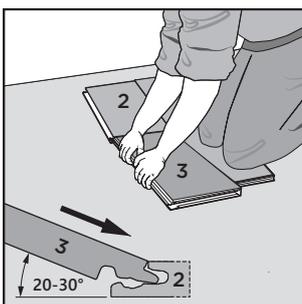
ANGLE IN THE SECOND PANEL

Place the tongue of the long side of panel 2 into the groove of the long side of panel 1 at 20-30° and angle down.
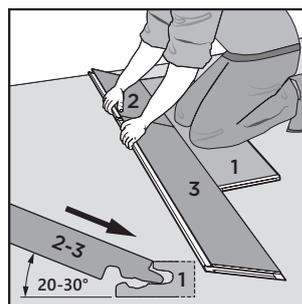
Sit with your knees on the panels to secure them during installation and keep them in place.
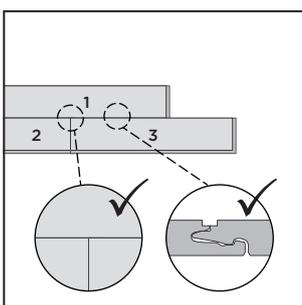
ANGLE IN THE THIRD PANEL

Angle in the short side of panel 3 into the short side of panel 2 at 20-30° and angle down.

Place your hands close to the joint and slide panel 3 towards panel 1. Angle the row of panel 2 and 3 up to an angle of 20-30°. Angle down to completely connect the panels.

MIND THE GAP

After installing each panel, check if all joints are fully connected without gaps or height difference. Grooves are designed for grouting and should not be considered gaps.
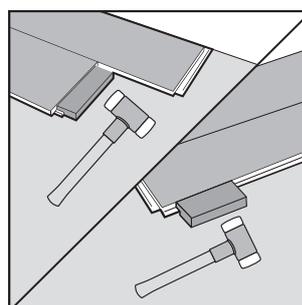
To ensure all gaps are closed, gently tap the tapping block with a hammer to completely close the joints.

Installation
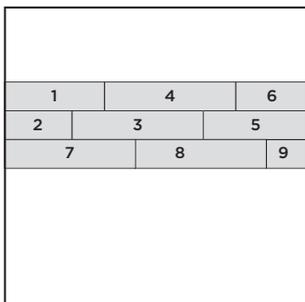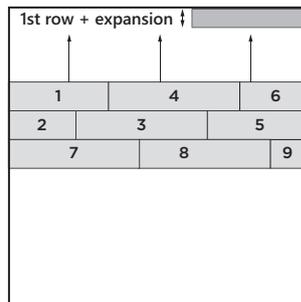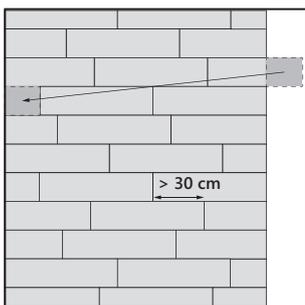# **Next rows**

INSTALL ROW 1-3

Continue installing the rest of the panels for the first three rows in the order of the drawing.
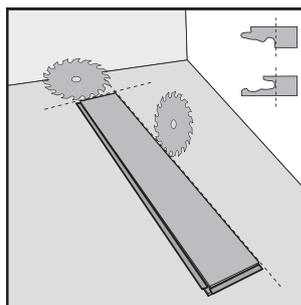

1st row + expansion

Move the rows closer to the wall, leaving a distance equal to the width of the start row plus the expansion gaps. Ensure the start row is at least 5 cm wide.
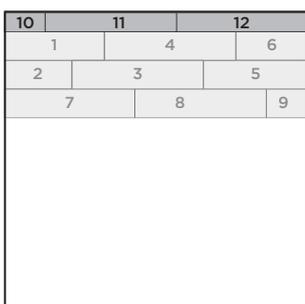
EDGE PIECES

> 30 cm

Tip: use the leftover of the sawed off panel to start the new row.
Stagger the panels randomly and use an overlap of at least 30 cm to ensure a strong connection.
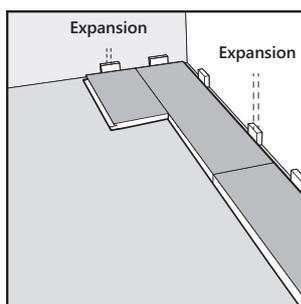

Remove the click profile on every side directly next to the wall to ensure the required expansion gap.
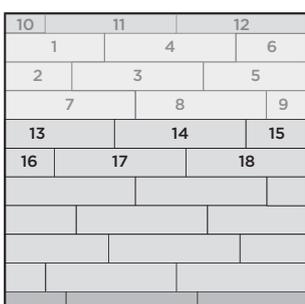
MOVE THE ROWS TO THE STARTER WALL

Install the start row by angling in the panels. Use the pull bar and hammer if necessary.

Expansion   Expansion

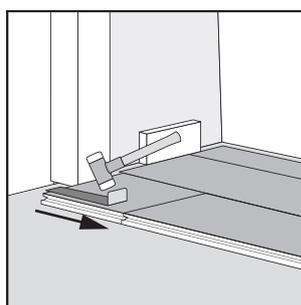Place the spacers to ensure the correct expansion gap.
For the correct expansion gaps, check the supplier installation guidelines.
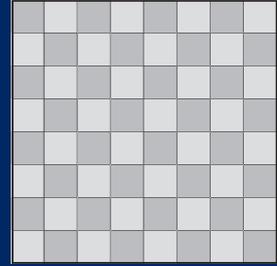
CONTINUE THE INSTALLATION

Continue installing the rest of the panels row by row in the order of the drawing.
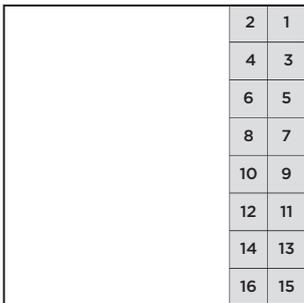

For edge pieces close to the wall, use the pull bar and hammer to completely secure the locking system. Gradually connect the panels in a few taps.
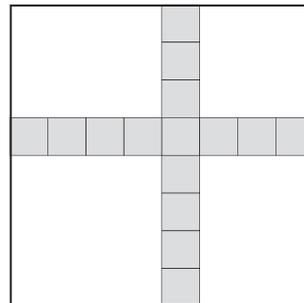
Installation
Checkerboard

Square tiles with a grouted groove offer a floating alternative to ceramic tiles
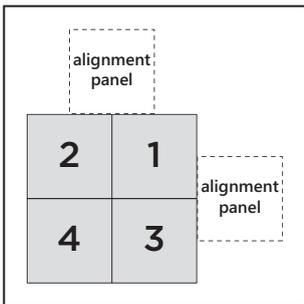
START POSITION

Option 1
Start in the corner of the room and work towards to the other wall row by row.

2	1
4	3
6	5
8	7
10	9
12	11
14	13
16	15

Option 2
Start in the middle of the room and map out the amount of rows lengthwise and widthwise.

CHECKERBOARD PATTERN

alignment panel

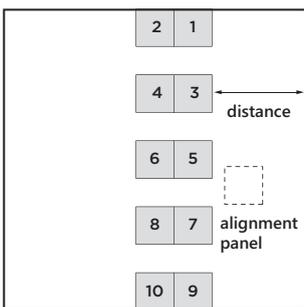| 2	1
4	3

alignment panel

To ensure the panels are always aligned, use an extra panel as an alignment panel in the middle of the joint.

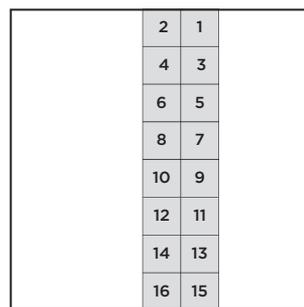| 2	1
4	3
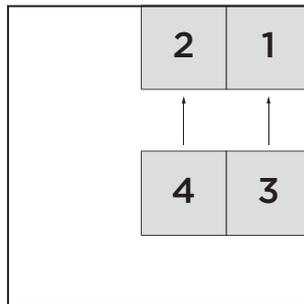
For easier aligment, work in pairs of two panels for the first two rows.

FIRST ROWS

2	1
4	3
6	5
8	7
10	9

distance

alignment panel

Start by laying your first row a little distance from the wall and use an aligment panel if necessary.

2	1
4	3
6	5
8	7
10	9
12	11
14	13
16	15

Connect all pairs and complete the rows 1-2.

CONTINUE THE INSTALLATION

2	1
4	3
6	5
8	7
10	9
12	11
14	13
16	15

1st row + expansion
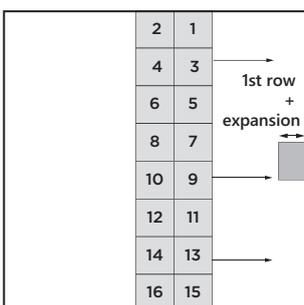
Move the rows closer to the wall, to a distance that is the width of the start row and the expansion gaps.
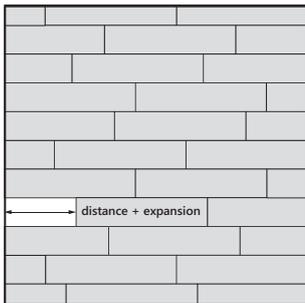Make sure the start row is at least 5 cm wide.

		25	17	2	1
		26	18	4	3
		27	19	6	5
		28	20	8	7
		29	21	10	9
		30	22	12	11
		31	23	14	13
		32	24	16	15
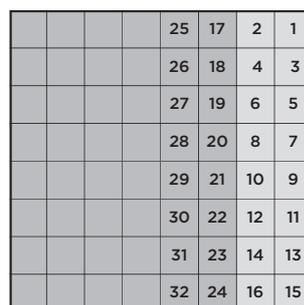
Continue the rest of the installation panel by panel, row by row.

≋UNILIN   INSTALLATION GUIDELINES

Installation
Correct size

EDGE PANELS

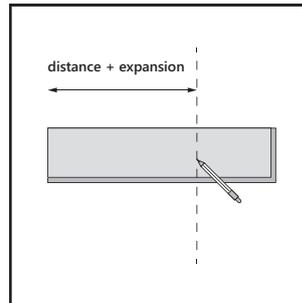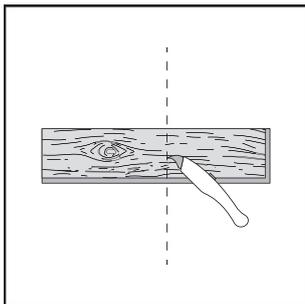distance + expansion

- Measure the size for the edge piece
- Keep the expansion gaps into account and add them to the distance from the wall
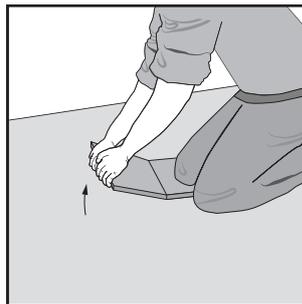

distance + expansion

- Pencil the cutting line on your panel
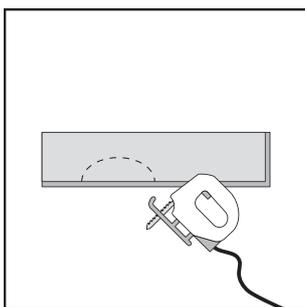- Use a ruler or another floor panel to ensure a straight line

VINYL

For straight cuts
- Cut the panel with a sharp concave cutter knife
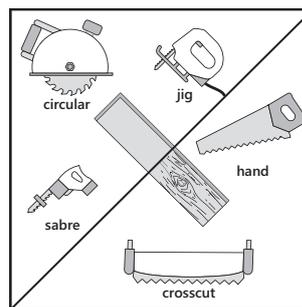- Always cut with the design facing upwards

- Lay the panel with the design facing downwards
- Snap the plank in two
- Use your knees to hold the panel

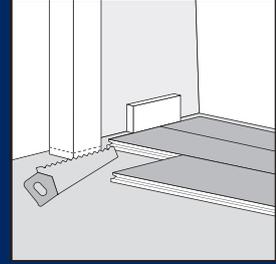
For other shapes
Use a saw to cut the panel to size

circular   jig
                hand
sabre
        crosscut

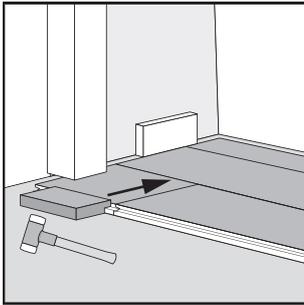**Design facing down:** jigsaw, saber saw or circular handsaw

Design facing up: handsaw or crosscut saw
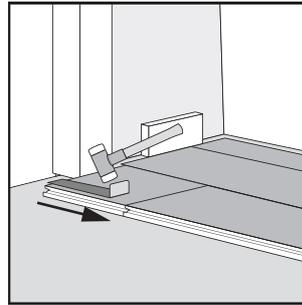
Installation
Finishing

Undercut the door-frames or moldings to enable the expansion of the panels.
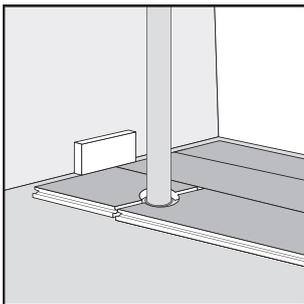

UNDER DOOR-FRAMES

Install the panel on the long side with a tapping block or pull bar. Gently tap with a hammer to gradually connect the panels in a few taps.
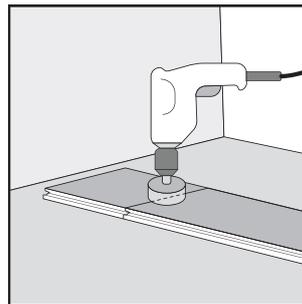

Slide the panel towards the already installed panels and gradually lock the short side of the panel with a tapping block or pull bar and hammer in a few taps.
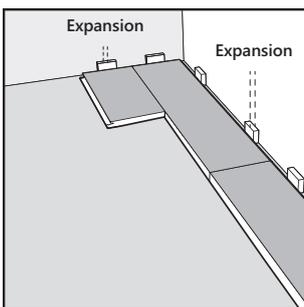
PIPES

In rows where the flooring meets a pipe, ensure the pipe aligns exactly with the short sides of two panels.
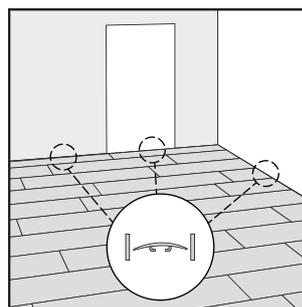

Click the panels together on the short side. Drill a hole centered on the joint between the two panels of the same diameter as the pipe plus 20 mm (3/4").
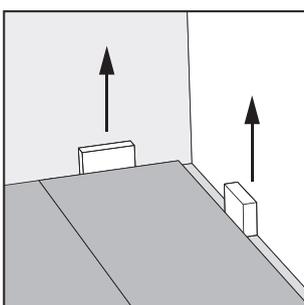
ROOM FOR EXPANSION

The floor must be able to expand and contract with changes in the indoor climate. For expansion joint guidelines, check the supplier's instructions.
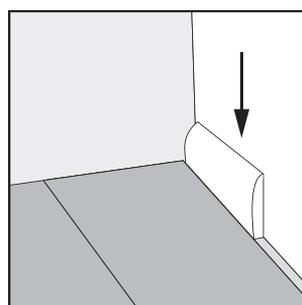

Provide expansion joints between different rooms or in large rooms. Check the supplier's guidelines for details.

FINISHING

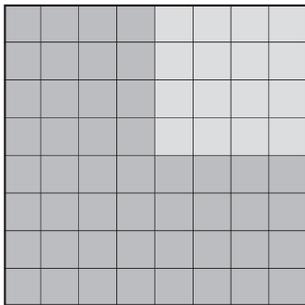After the floor and expansion profiles are completely installed, remove all spacers from the room(s).

Install skirting on the walls over the expansion gaps to complete the room.
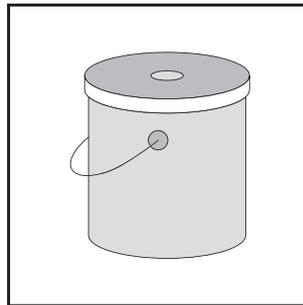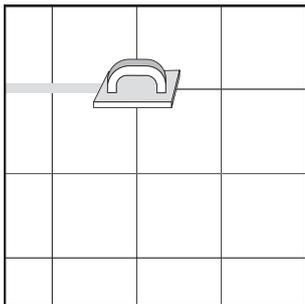
Installation
Grouting

PREPARATION

Work in sections to ensure the grouting solution does not dry and simplify the cleaning process.
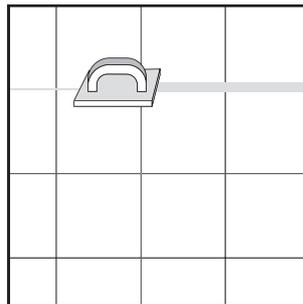

Prepare for the grout according to the instructions of the supplier. Use all products and mix well, preferably by using an electric mixer on a low setting.
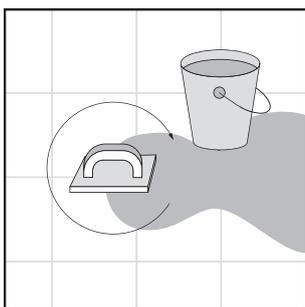
GROUT

Use the grout float to apply the grout to the bevels of the floor.
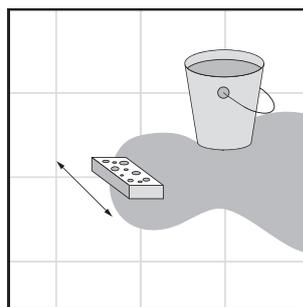

Scrape with the grout float to remove the excess.
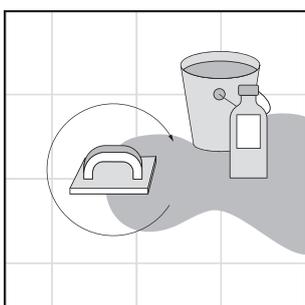
CLEAN

While the product is still wet, clean with non-scratch felt pad and plenty of water, using circular motions. Change the water often for larger areas.
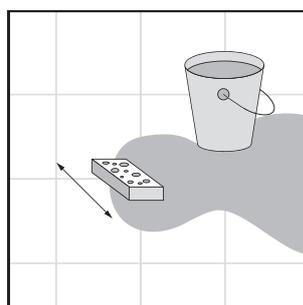

Clean the surface with a wet sponge and clean water to remove all remaining haze in diagonal motions.

AFTER 24 HOURS

Apply the cleaner to the floor with the felt pad in circular motions to remove any spots or grease stains. Let it sit for 30 minutes, then rub with a felt pad to remove traces of resin.

Rinse the surface with clean water and a wet sponge in diagonal motions. Optionally, dry with a clean, dry cloth.

Are you interested in this technology or do you have any questions? Do you want more information or are you interested in other technologies?

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