Section six

INSTALLATION OF LOOSE LAY VINYL

A collection of adhesive-free floor coverings available in a variety of formats including sheet, plank and tile.

Replicating natural textures of wood & stone and abstract materials, the loose lay collections are designed to reduce installation time within both heavy commercial and residential situations.

SECTION	PRODUCT NAME	FORMAT	GAUGE	INSTALLATION
	Secura Designatex Architex	Loose lay sheet Loose lay sheet Loose lay sheet	3.0mm 3.0mm 3.5mm	Adhesive-free Adhesive-free Adhesive-free
		Loose lay planks & tiles	5.0mm	Adhesive-free
	Polysafe QuickLay	Loose lay safety sheet	2.2mm	Adhesive-free

6.1 LOOSE LAY SHEET

6.1.1 RECEIPT & STORAGE

- On receipt of rolls, check that colour references correspond to those ordered, that quantities are correct and that there is no damage.
- In particular, check that rolls are from one batch, if that was requested on the order.
- ▶ On arrival at site, the rolls should be safely secured, positioned and stored in accordance with the directions on the roll label at a minimum temperature of 18°C for at least 48 hours prior to installation.
- ➤ To achieve best results, site conditions should be as described in BS 8203 or prevailing local/national standards. A constant working temperature between 18°C and 27°C should be maintained for at least 48 hours prior to installation, during the installation and for 48 hours afterwards.

6.1.2 LOOSE LAY CONDITIONING

- Polyflor loose lay vinyl sheet requires conditioning ahead of installation. Conditioning should be carried out in the same areas as the installation, to prevent thermally induced dimensional changes.
- Conditioning should ALWAYS take place in the area that is to receive the installation
- The conditioning time should be increased to at least 48 hours where the sheet has been stored outside or stored/delivered at temperatures below 10°C.

6.1.3 PRIOR TO INSTALLATION (UNDERFLOOR HEATING)

KEY POINT

When underfloor heating is the only source of heat, alternative measures must be taken to meet all site condition requirements, as previously mentioned.

On installations where underfloor heating is used:

- ➤ The system should be fully tested and commissioned prior to the flooring installation commencing.
- Underfloor Heating systems should be switched off and be fully cooled for a minimum of 48 hours prior to the installation commencing. The system should remain off and fully cooled during the installation and for a minimum of 48 hours afterwards. Then slowly bring back up to the working temperature incrementally over several days.
- ▶ A maximum subfloor temperature of 27°C should never be exceeded.

6.1.4 PREPARATION OF WORK AREA

The work area should now be prepared to receive the sheet flooring. Ensure that all other trades have completed their work and removed all their equipment and materials. INSTALLATION OF LOOSE LAY Section six

INSTALLATION OF LOOSE LAY Section six

KEY POINT

Commencement of work is deemed by many as acceptance of the site conditions as suitable for laying floor coverings.

- Remove all debris and sweep or vacuum the whole floor area. Check the condition of the subfloor and make good as necessary.
- Stone or power grind any cementitious subfloor to remove any 'nibs' or ridges.
- ▶ Sweep or vacuum again prior to laying.
- If required by the contract, or if in doubt, check the moisture content of the subfloor and record the results and method used.
- ▶ Good lighting is essential.

6.1.5 LAYOUT OF LOOSE LAY VINYL SHEET

- ▶ Refer to Section 3.8 for information on alignment of decoration.
- ▶ The architect may have provided a drawing showing the direction in which the material should be laid. In this case, lay the sheet as directed.
- ▶ On installations where the architect has left this to the discretion of the flooring contractor; at the tender stage show in which direction the material will be laid and state that your estimate is based on this.
- If a joint is necessary always pay particular attention to where seams will fall, avoiding such occurrences as seams in the centre of doorways. If large windows are installed, minimise the effect of the joints by laying towards the window.
- For large areas over 20m² where a joint will be necessary or where rolling loads are likely, Polyflor recommend that the vinyl is fully adhered to the subfloor with a suitable tackifier release system from any one of the manufacturers listed on the Polyflor Approved Adhesive list.



Further information on fully bonded installation instructions can be found in Section three.

6.1.6 SLABBING THE SHEET

- ▶ Polyflor recommends that all Polyflor sheet flooring be rolled out face upward, taking care not to damage the surface, and cut approximately to size.
- ▶ Allowance of at least 75mm should be made at the ends for trimming in, the slabs should then be left overnight for 24 hours, to condition at a consistent temperature range between 18°C and 27°C.

6.1.7 FITTING THE FIRST LENGTH

- ▶ Place the first sheet in position next to the wall with the outer edge approximately 15mm from the nearest point.
- Adjust the lie of the sheet so that the inner edge is parallel with the axis of the room (Fig 1).

KEY POINT

A 2mm gap must be allowed around the perimeter of the room

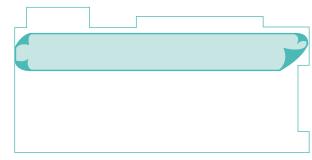


Figure 1 Lining up the first sheet

- Depending upon the depth of the recesses, either a bar scriber or a pair of scribers should be used to trace the profile of the wall. The scribers should be set to allow for the deepest recess or rake of the wall. The scribers should be set to allow for a 2mm expansion gap around the perimeter.
- ▶ Holding the scribers square to the edge, trace the wall profile onto the face of the sheet (Fig 2).

KEY POINT

Product laid into areas exceeding 20m² should be fixed down using a suitable tackifier release system.
Wet Set permanent adhesives should be avoided.



Figure 2 Scribing the wall profile

- Care should be taken when using the wider widths of loose lay sheet (3m or 4m) not to fully fold the sheet over itself when fitting into recesses and against walls as this can lead to pressure marks that might not relax out following installation.
- With this method, all irregularities of the wall will be accurately reproduced onto the surface of the sheet. If, because of the colour or decoration, the scribed line is difficult to see, rub suitably contrasting chalk dust into the line to highlight it.
- ▶ Ease the sheet away from the wall and, using a hook blade trimming knife, cut off the excess material to the scribed line.

- Slide the sheet back against the wall and check the fit, making any minor adjustments as necessary.
- When satisfied that the fit on the first edge is correct, use a pencil to trace the opposite edge onto the subfloor (line A-B in Fig 3).
- In the centre of the room, draw a line on both the sheet and subfloor square to the main axis of the sheet (line C-D in Fig 3).
- ▶ Keeping the inner edge of the sheet on line A-B, slide the sheet back to clear the wall at one end of the room.

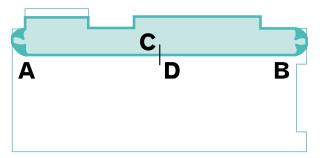


Figure 3 Marking the position

- ▶ Set the scribers to the distance now between lines C and D (Fig 4) allowing for a 2mm expansion gap.
- ▶ Trace the end wall profile and cut to fit as described in preceding paragraphs. Repeat for the other end of the sheet.



Figure 4 Scribing the wall profile

6.1.8 FITTING SUBSEQUENT LENGTHS

6.1.8.1 Alignment of decoration

➤ This type of floor covering features a print layer with a regular, repeat decoration (e.g. wood plank). It is important that care is taken to align the pattern decoration of each adjacent sheet.

If in any doubt contact the Polyflor Customer Technical Services Department (CTSD) for further advice on +44 (0) 161 767 1912.

▶ The label and printed information on the backing of the sheet must be checked and the product reverse laid when instructed.

6.1.9 CUTTING IN THE SEAMS

Polyflor recommends that all loose laid vinyl sheet floor coverings are cold welded.



Figure 5 Cutting in the seams



Further information on seam cutting and cold welding can be found in Section ten.

6.1.10 PATTERN TEMPLATE METHOD

Areas which call for a considerable amount of fitting around obstacles, or which are too confined to lay down a sheet for fitting by normal methods, can be dealt with by templating the floor in felt paper.

For new buildings consider coming to an agreement with the main contractor to fit fixtures such as WCs and sinks <u>after</u> the vinyl has been laid.

- Dry fit the area with felt paper, leaving a gap of 15mm to 20mm around obstructions and walls.
- Draw around the fittings using a suitable measuring and marking device. Mark the template 'This Side Up'.
- Place the sheet in a larger area with the face uppermost. Place the template on top ensuring the direction of decoration is correct. Secure the template firmly in position and mark the position of all obstacles using the template as a guide.
- Using a sharp trimming knife, cut the sheet to the marked lines and fit into position.

Do not use the felt paper template as an underlay.

6.2 LOOSE LAY TILE AND PLANK

6.2.1 RECEIPT & STORAGE

On receipt of tiles or planks:

- ▶ Check that colours correspond to those ordered, that quantities are correct and there is no obvious damage.
- In particular, check that tiles are from one batch, if that was requested on the order.
- On arrival at site, the tiles should be stored, together with the adhesive, at a minimum temperature of 18°C for at least 48 hours prior to laying.
- Under normal conditions (outside temperature above 10°C) the tiles should be off-loaded from the pallet and stacked no more than five boxes high during the conditioning period. The stacks should be arranged to allow the air to circulate around the stack on all sides.
- ▶ In cold weather (outside temperature below 10°C) the boxes should be opened and the tiles spread out in the area where they are to be installed permitting the tiles to acclimatize more quickly.
- To achieve best results, site conditions should be as described in BS 8203 or prevailing local/national standards. A working temperature of between 18°C and 27°C is required for 48 hours prior to, and during the laying period and for 48 hours afterwards.

6.2.2 LOOSE LAY CONDITIONING

The temperature should be constant and not vary more than 2°C. Conditioning areas and laying areas should be of similar temperature, to prevent thermally induced dimensional changes. Conditioning / Acclimatisation should ALWAYS take place in the area that is to receive the installation together with any adhesive / adhesive tape used; and any plywood underlayment. The conditioning time should be increased to at least 48 hours where the planks/tiles have been stored and/or delivered at temperatures below 10°C.

As extremes of temperature can occur between day and night time, temperatures will fluctuate. It is essential to mitigate against the effects of these fluctuations. These are more prevalent in areas with south facing and full height windows; (Inc. patio & bi-fold doors) and in conservatories / orangeries. The windows in these areas should be shaded or covered both during the conditioning period; the installation period; and for 24 hours after the installation has been completed to minimise this effect. Complaints arising from the failure to correctly condition the tiles and planks, which result in shrinkage or lipping, will not be accepted by Polyflor Ltd.

6.2.3 PRIOR TO INSTALLATION (UNDERFLOOR HEATING)

KEY POINT

When underfloor heating is the only source of heat, alternative measures must be taken to meet all site condition requirements, as previously mentioned.

- ▶ On installations where underfloor heating is used, the system should be fully tested and commissioned prior to the flooring installation commencing.
- ▶ Underfloor Heating systems should be switched off and be fully cooled for a minimum of 48 hours prior to the installation commencing.
- ➤ The system should remain off and fully cooled during the installation and for a minimum of 48 hours afterwards. It should then be slowly brought back up to the working temperature incrementally over several days. A maximum floor temperature of 27°C should never be exceeded.

6.2.4 PREPARATION OF WORK AREA

The work area should now be prepared to receive the vinyl tiles.

- Ensure all other trades have completed their work and removed all their equipment and materials.
- ▶ Remove all debris and sweep or vacuum the whole floor area.
- ▶ Check the condition of the subfloor and make good as necessary.
- Commencement of work is deemed by many as acceptance of the site conditions as suitable for laying floor coverings.

6.2.5 LAYOUT OF LOOSE LAY VINYL TILES

Although many floor layers regard vinyl tiles as being easier to lay than vinyl sheet, the layout of the tiles can be critical to the success of the installation. The regular form of tiles, especially when laid in contrasting colours, can accentuate deviations in the building line, emphasizing the need for detailed planning of the layout.

Many floor layers start in the main doorway, believing that the initial impression when entering a room is most important. However, working from the centre of the room and loose laying tiles to check the layout will make the final appearance correct from any viewpoint. This is of particular importance when incorporating a geometric design into a floor.

➤ Cut with a sharp knife from the face side, ensuring the cut is 90°, by scoring twice, the 2nd score cuts the glass fibre reinforcement layer. Open up the cut by bending the tile, and then finish the cut from the back side.

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- A minimum 2mm expansion gap must be left between the product and the wall or other fixed components such as door frames or heating pipes.
- When installing in an entrance area; larger-scale heavy commercial environments or any areas where heavy foot traffic or regular rolling loads can be expected, a Quicklay double sided contact tape; suitable wide span double sided "Sigan" type tape or a suitable tackifier release system from any of the manufacturers that appear on the Polyflor Approved Adhesive List, can be used to avoid movement. If tape is used it should be applied diagonally, running one way only, across the full area at 500mm centres. This will ensure that all tiles are secured to the substrate.

▶ Areas larger than 10m x 10m, require the inclusion of a 5mm expansion joint. A suitable expansion joint cover should be used. Expansion joints should be included for every subsequent 100m².

about the Layout of Loose Lay on the 2 day Polyflor Floor Laying Course

6.2.6 MEASURING AND MARKING OUT

KEY POINT

When setting out planks/ tiles, always start from the centre of the room

- In order to produce the optimum appearance carefully plan and set out the tiles. It is advantageous to dry lay a section of the floor so that it can be determined whether the appearance of the pattern is acceptable and also to ensure any graining/texture within individual tiles is correct.
- ▶ Traditionally the starting point for tiles is the centre of the room.
- ▶ Before adhering confirm that the overall appearance of the flooring is acceptable.
- If the room is irregular in shape it may be necessary to square up the tiles off the longest wall or a specific feature.
- In areas directly adjacent to full height windows, conservatories, orangeries, etc., or areas exposed to direct sunlight for prolonged periods of time or where high temperature fluctuations can occur Polyflor recommend that a suitable high temperature adhesive selected from Polyflor's approved adhesive list should be used to fix tiles/planks in these localised areas only. Contact Polyflor CTSD on +44 (0) 161767 1912 for further advice.
- Prior to laying the first plank, ensure all cuts are of an acceptable length (min. 150mm).
- As the planks are not required to be laid 'in bond' in the length, it is possible to begin the installation from an end wall.
- ▶ Planks must be staggered to obtain a random finish, however ensure that plank ends are not within 150mm of adjacent planks.

6.2.6.1 Straight Tiling — Setting Out

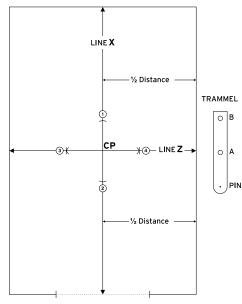


Figure 6 Marking out straight tiling

6.2.6.2 Diagonal Tiling - Setting Out

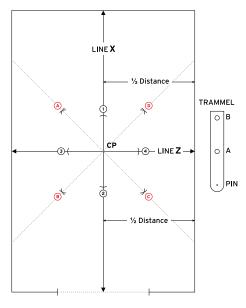


Figure 7 Marking out diagonal tiling

- ▶ Measure the room to be laid, in both directions, including any alcoves.
- Mark a centre line X. Ensure it is central to the room dimensions
- ▶ Loose lay tiles to ensure there are no small cuts at the perimeter. If small strips are evident, move the centre line across half a tile in either direction to create an acceptable sized cut.
- Find the centre of line X and mark the Centre Point (CP).
- Mark arcs 1 & 2 at equal distances from CP on the centre line using point A on your trammel.
- ▶ With points 1 & 2 as centres, use point B on your trammel to draw further arcs intersecting at 3 & 4.
- Strike a line through point 3 & 4 ensuring it passes through CP.
- ▶Line Z is now 90° to line X.
- Double check using the 3,4,5 method.
- Set out as overleaf for straight tiling. Ensure both lines are at 90° to each other.
- At CP (Centre Point), use point B on your trammel to mark arcs at 1, 2, 3 and 4.
- ▶ With points 1 & 3 as centres using point B on your trammel draw arcs to intersect each other at A.
- ▶ With points 2 & 4 as centres using point B on your trammel draw arcs to intersect each other at C.
- ➤ Strike a chalk line from wall to wall through points A & C; if no error has been made, this line will pass through CP.
- ▶ With points 1 & 4 as centres using point B on your trammel draw arcs to intersect each other at D.
- ▶ With points 2 & 3 as centres using point B on your trammel draw arcs to intersect each other at B.
- Strike a chalk line from wall to wall through points B & D; if no error has been made, this line should pass through CP.
- ▶ Double check using the 3,4,5 method.

6.2.7 CUTTING THE PERIMETER TILES

Two techniques are commonly used for cutting perimeter tiles. The choice is mainly dependent upon the run out of the wall.

6.2.7.1 Overlapping Method

KEY POINT

as door frames.

Use either Overlapping

or Scriber Method to fit

around projections such

Used when there is little or no run out of the abutting wall.

- Place the tile to be cut exactly over the last tile laid, ensuring the colour is correct and the decoration runs the correct way.
- Place another full tile on top of the tile to be cut with its 'top edge' against the wall or set-in coved skirting (Fig 8).

Figure 8 Measuring using an overlapping tile

- Scribe a line onto the tile to be cut, using the 'bottom edge' of the top tile as a quide.
- ▶ Cut the tile to the scribed line, loose lay into position and check the fit. Repeat along the whole wall.

6.2.7.2 Scriber Method

Used when the wall run out is quite severe or when the wall profile cannot be picked up using a straight edge.

- ▶ Place the tile to be cut exactly over the last tile laid; ensuring the colour is correct and the decoration runs the correct way.
- ▶ Set the bar scriber to the size of the tile being laid.
- Trace the profile of the wall on to the tile to be cut, ensuring the bar scriber is kept upright and square to the edge of the tile.
- ▶ Cut the tile to the scribed line, loose lay into position and check the fit. Repeat along the whole wall.

Both the Overlapping and Scriber Methods can be used to fit around projections such as door frames. Similarly, a template can be made or a profile gauge containing movable pins can be used for awkward shapes

6.2.8 INSTALLING TILES IN LARGE AREAS

Maintaining a clearly defined straight line over long distances can be difficult and often leads to inaccuracies. To eliminate this problem, an alternative technique is used when laying tiles in large areas:

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▶ Establish the central starting point, as described previously, minimising small cuts on perimeter tiles.

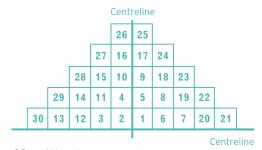


Figure 9 Pyramid layout

- ▶ Lay the first pyramid of tiles from the centrelines, using the sequence shown in Fig 9. Ensure a close bond is maintained at all times.
- Repeat this sequence on the opposite side of the centreline. Continue working in larger and larger pyramids, until only the perimeter tiles require fitting.

NOTE Construction of a pyramid should always start at the centre of the baseline, working in the same sequence as shown in Figure 9.

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6.3 LOOSE LAY SAFETY VINYL SHEET

6.3.1 RECEIPT & STORAGE

- On receipt of rolls, check that colour references correspond to those ordered, that quantities are correct and that there is no damage.
- ▶ In particular, check that rolls are from one batch, if that was requested on the order.
- On arrival at site, the rolls should be safely secured, in an upright position and stored in accordance with the directions on the roll label at a minimum temperature of 18°C for at least 24 hours prior to installation
- ▶ To achieve best results, site conditions should be as described in BS 8203 or prevailing local/national standards. A constant working temperature between 18°C and 27°C should be maintained for at least 48 hours prior to installation, during the installation and for 24 hours afterwards.

6.3.2 LOOSE LAY CONDITIONING

- ▶ Loose Lay safety vinyl sheet requires conditioning ahead of installation. Conditioning should be carried out in the same areas as the installation, to prevent thermally induced dimensional changes.
- ▶ Conditioning should ALWAYS take place in the area that is to receive the installation.
- The conditioning time should be increased to at least 48 hours where the sheet has been stored outside or stored/delivered at temperatures below 10°C.

6.3.4 PRIOR TO INSTALLATION WHERE UNDERFLOOR HEATING IS USED

KEY POINT

When underfloor heating is the only source of heat, alternative measures must be taken to meet all site condition requirements, as previously mentioned.

- ➤ The system should be fully tested and commissioned prior to the flooring installation commencing.
- ▶ Underfloor Heating systems should be switched off and be fully cooled for a minimum of 48 hours prior to the installation commencing.

 The system should remain off and fully cooled throughout the entire installation process and for a minimum of 48 hours afterwards. Then slowly bring back up to the working temperature incrementally over several days.
- A maximum subfloor temperature of 27°C should never be exceeded.

6.3.5 PREPARATION OF WORK AREA

▶ The work area should now be prepared to receive the sheet flooring. Ensure that all other trades have completed their work and removed all their equipment and materials.

6.3.6 LAYOUT OF LOOSE LAY VINYL SHEET

- The architect may have provided a drawing showing the direction in which the material should be laid. In this case, lay the sheet as directed.
- On installations where the architect has left this to the discretion of the flooring contractor; at the tender stage show in which direction the material will be laid and state that your estimate is based on this.
- If a joint is necessary always pay particular attention to where seams will fall, avoiding such occurrences as seams in the centre of doorways. If large windows are installed, minimise the effect of the joints by laying towards the window.

6.3.7 SLABBING THE SHEET

- Polyflor recommends that sheet flooring should be rolled out face upward, taking care not to damage the surface, and cut approximately to size.
- Allowance of at least 100mm should be made at the ends for trimming in, the slabs should then be left overnight for 24 hours, to condition at a consistent temperature range between 18°C and 27°C.

6.3.8 APPLICATION OF ADHESIVE TAPE

- ▶ Only Polyflor Quicklay recommended double sided tape should be used around the perimeter of the room; across doorways and at all seams.
- ▶ Ensure the tape is only peeled back once the product has been installed correctly and at all seams before grooving and welding.

6.3.9 FITTING THE FIRST LENGTH

- ▶ Place the first sheet in position next to the wall with the outer edge approximately 15mm from the nearest point.
- Adjust the lie of the sheet so that the inner edge is parallel with the axis of the room (Fig 10).

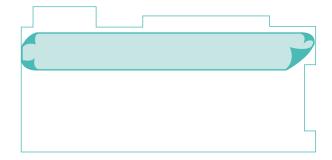


Figure 10 Lining up the first sheet

- ▶ Depending upon the depth of the recesses, either a bar scriber or a pair of scribers should be used to trace the profile of the wall. Set the scribers to allow for the deepest recess or rake of the wall.
- ▶ Holding the scribers vertically and square to the edge, trace the wall profile onto the face of the sheet (Fig 11).



Figure 11 Scribing the wall profile

▶ Only Polyflor Quicklay recommended double sided tape should be used at the perimeter of the room and at all seams; set 2mm away from the edge of the room (Fig 12).



Figure 12 Use double sided Polyflor recommended tape

- With this method, all irregularities of the wall will be accurately reproduced onto the surface of the sheet. If, because of the colour or decoration, the scribed line is difficult to see, rub suitably contrasting chalk dust into the line to highlight it.
- ▶ Ease the sheet away from the wall and, using a hook blade trimming knife, cut off the excess material to the scribed line.
- ▶ Slide the sheet back against the wall and check the fit, making any minor adjustments as necessary.

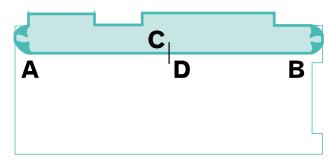


Figure 13 Lining up the first sheet

- When satisfied that the fit on the first edge is correct, use a pencil to trace the opposite edge onto the subfloor (line A-B in Fig 13).
- In the centre of the room, draw a line on both the sheet and subfloor square to the main axis of the sheet (line C-D in Fig 13).
- ▶ Keeping the inner edge of the sheet on line A-B, slide the sheet back to clear the wall at one end of the room.
- ▶ Set the scribers to the distance now between lines C and D (Fig 14)



Figure 14 Scribing the wall profile

▶ Trace the end wall profile and cut to fit as described in preceding paragraphs. Repeat for the other end of the sheet.

6.3.10 CUTTING IN THE SEAMS

- Polyflor recommends that all vinyl sheet floor coverings are grooved and welded.
- ▶ Trimming off the Factory Edges of the sheet is a pre-requisite to successful welding
- Following installation fully weld all joints in accordance with the guidance offered in Section 10 of this Technical Information Manual.

KEY POINT
Only Quicklay tape should
be used when laying
Quicklay sheet flooring

6.3.11 PATTERN TEMPLATE METHOD

- Areas which call for a considerable amount of fitting around obstacles, or which are too confined to lay down a sheet for fitting by normal methods, can be dealt with by templating the floor in felt paper.
- Dry fit the area with felt paper, leaving a gap of 15mm to 20mm around obstructions and walls.
- ▶ Draw around the fittings using a compass set at 25mm. New Buildings consider coming to an agreement witht the main contractor to fit fixtures such as WCs & sinks after the flooring has been laid.
- Mark the template 'This Side Up'.
- ▶ Place the sheet in a larger area with the face uppermost.
- Place the template on top; ensure the direction of decoration on the sheet is correct.
- Secure the template firmly in position and, with a pair of scribers set at 25mm, mark the position of all obstacles using the template as a guide.
- Using a sharp trimming knife, cut the sheet to the scribed lines and fit into position. NOTE Do not use the felt paper template as an underlay.

6.3.12 POST INSTALLATION

KEY POINT

When installing Polysafe QuickLay in areas where castor chairs or furniture with heavy castors, add extra Quicklay tape in these highly localized areas to prevent unnecessary rucking.

- Polysafe QuickLay can be trafficked immediately after it has been installed.
- Polysafe QuickLay can be installed earlier in the Construction programme than traditionally fully bonded floors; consideration should be given to adequately protecting against follow on Trades by covering with a suitable proprietary protective covering.
- Polysafe QuickLay should only be installed in areas that are fully weathertight.
- Polyflor's Cleaning & Maintenance instructions should be closely followed during any pre handover cleaning. If in any doubt please contact the Polyflor Customer Technical Services Department (CTSD) for further advice on +44 (0) 161 767 1912.

