

METHOD STATEMENT

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TARKETT IQ TORO SC SHEET & TILE

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Tarkett iQ Toro SC Sheet is produced using a unique method, which encapsulates carbon filled particles throughout the construction of the product. The electrostatic conductive properties of iQ Toro SC remain active throughout the products long life, ensuring that the floorcovering always meets the specification that it was intended for.

There is no requirement to install a full copper grid system, it is only necessary to install copper foil 20cm out from each of the end walls (wall at sheet ends) and then multiples of 20m between these two points. If the area is less than 20m in length, only install the copper foil at one end of the sheets. Any cross-joins should have a 1m length of copper foil equally positioned in the centre of the sheets, crossing from one sheet to the other. All copper foils should be adhered to both the subfloor and the underside of the iQ Toro SC using a conductive adhesive. Ensure that the copper grid is finally connected to earth at each of the copper foil ends.

All other areas only require to be adhered using an acrylic adhesive as recommended below.

The preparation/dryness of the subfloor and installation procedures should all be as BS 8203: 2001. i.e.: The relative humidity of a solid subfloor should be below 75%RH when tested with a Hygrometer as described in this British Standard.

Prior to selecting a smoothing compound, it will be necessary to investigate what type of traffic the floorcovering once installed will be subjected to. Latex smoothing compounds are not suitable for areas that will receive heavy traffic, especially heavy-wheeled traffic with narrow wheels. Never subject a newly installed floorcovering to heavy wheeled traffic at an early stage, as this will disperse trowelled applied adhesive from below the floorcovering which may result in future problems. Wheels should be + 30mm and preferably made of neoprene. If it is necessary to traffic the floorcovering at an early stage, protect the installation with hardboard or plywood.

For specific subfloor types and preparation, please refer to our Specifications Subfloor Types.

Although Tarkett may on occasion list a choice of adhesive, levelling compound and surface damp proof membrane manufacturers and types, we do not however guarantee the products listed or suggest that the list of products or manufactures, are complete or current. Tarkett would not accept any liability for any of these products failing to perform in conjunction with any of their products. It is the responsibility of the adhesive, levelling compound and surface damp proof membrane manufacturer and flooring contractor to ensure the products being used are appropriate for use and applied in accordance with the manufacturers recommendations.

Recent studies have shown that micro-organisms can colonise, under certain conditions, the area between the subfloor (wooden or cement) and the installed flooring. These micro-organisms can thrive in warm, damp conditions where there is sufficient 'food' available – for example, certain types of levelling compound used prior to the flooring installation. During their normal life-cycle, these micro-organisms produce a colorant, usually pink, purple, red or black (but can be other colours), which can 'bleed' through to the surface of the PVC flooring product over a period of several months or longer.

Advice should always be sought from the manufacturers of subfloor preparations and adhesives prior to installation, to ensure that their products are suitable for the environment in which the PVC flooring is to be laid – this advice may include using products that contain biocides or of specific resin types.

For wooden fabricated underlay e.g. plywood, care must be taken to store the material in an area where it will not become damp or contaminated.

The 'bleed' through of colorant created by micro-biological activity below PVC floorcovering products is not attributable to a product/manufacturing fault.

It is imperative that underfloor heating systems have been previously commissioned and found to be functioning correctly prior to the floor finish being installed. Ensure that the underfloor heating system is switched off 48 hours prior to the floorcovering installation commencing and remains off for at least 48 hours after the installation is complete. During the period of decommissioning of the underfloor heating system, an alternative heating source should be provided, if required, to ensure that the area of installation is kept at a constant temperature of 18°C - 27°C. Gradually increase the temperature over a number of days by only a few degrees per day until the desired room temperature is reached. The temperature should never exceed the floorcovering industry agreed maximum of 27°C at the underside of the floorcovering (the adhesive line). Failure to follow these guidelines can result in the floorcovering de-bonding, joints opening, and on some occasions discolouring, all which can occur within a long or short period of time.

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CONDITIONING

It is important that the material (rolls) is stored in an upright position. 24 hours prior to use, the material should be cut to the desired lengths and acclimatised within the area to be installed by laying flat on a prepared, clean subfloor at a temperature of 18° - 27°C. This temperature should be maintained throughout the duration of the installation. The minimum temperature of the subfloor should be 15°C. Care should be taken when handling all types of floorcoverings to ensure that safety procedures are followed and damage does not occur to the material.

INSTALLATION SHEET

1. Prepare the subfloor as necessary and remove all traces of debris.
2. Ensure that material with the same batch number is allocated to each area to be installed. Consecutive roll numbers should also be used.
3. Plan the sheet direction of the area to be installed to ensure whenever possible that joins do not coincide with doorways or main traffic lanes.
4. Cut the lengths of the material 10cm longer than the size of the measured length of the room.
5. Scribe the first sheet down the length of the room with the two ends lapped up the wall. Cut down the scribe mark using utility knives with straight and hook blades removing the scrap material and place into position.
6. Place the sheet tightly against the wall, draw a pencil line down the edge of the iQ Toro SC onto the subfloor lengthways opposite the scribed wall.
7. When in position draw a pencil line at 90° to the edge of the sheet from the iQ Toro SC onto the subfloor using a ruler. This cross mark should be approximately 20cm away from one of the ends still lapped up the wall.
8. Slide back the sheet along the first pencil line until the end of the sheet lies flat on the subfloor and slightly short of the wall. The two cross lines will now have moved apart.
9. Set the long scribes at the distance between the two lines and scribe this size from the wall onto the iQ Toro SC at the same time keeping the scribes parallel with the sheet edge. With the scribe adjusted to this setting, the end of the sheet is now scribed and cut and the surplus removed.
10. Slide the iQ Toro SC back into its previous position with the material now fitted to the long wall and end wall. Repeat this last procedure at the end still lapped up the opposite wall.
11. **All consecutive sheets should be installed in the opposite direction to the previous sheet installed. (Reverse sheets)** i.e.: 1st sheet facing north, 2nd sheet facing south, etc. Print or arrows on the reverse of the material can identify the direction of the sheets.
12. Overlap the next sheet by 2.5cm with one end already 2-3cm short of one wall. Adjust the scribes to scribe a small amount off this end of the sheet and cut to size. Slide this end of the sheet into position against the wall just fitted to. Now repeat the procedure adopted for fitting the previous sheet where the iQ Toro SC was still lapped up the remaining wall.
13. This entire procedure should be copied for all consecutive sheets apart from the last sheet, which should be installed in the same manner as the first.
14. Only install the amount of floorcovering that can be adhered to a subfloor in one day.
15. Just prior to adhering the iQ Toro SC, all joins should be re-cut. Strike a chalk-line 10mm in from the overlapped edge of the material and re-cut using a knife and straightedge by cutting through 2/3rds of the thickness prior to cutting with a hook knife. Use this good edge to now guide a pin-vice down the edge. Deepen this cut with a utility knife and finally undercut with a hook knife.

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16. Cut a good edge on the material and then overlap uncut edge on top. Scribe bottom edge of the iQ Toro SC top sheet by using a short scribe. (over & unders)

Warning: When cutting seams etc, be careful not to cut into or damage the copper foils below.

17. Carefully pull the sheets back half their length and re-sweep the back of the iQ Toro SC and the subfloor to ensure that no debris is present that may visually impair the installation and cause premature wear.
18. Apply an acrylic adhesive from the current adhesive range of Tarkett Embond 170, Uzin KE 2428, F.Ball & Co Ltd-F45, Laybond Products Ltd-78/Multicryl and Tremco Ltd-108. **Conductive adhesive is to be applied to the subfloor to secure the copper foil (if it is not self-adhesive) and over the surface of the copper foil to form a connected secure bond. (Uzin KE 66L, F.Balls-F57, Laybond-Conductite or Tremco-106).**
19. **Tarkett Embond 170 pressure sensitive adhesives should be trowel applied and then flattened with a lambs wool roller (please seek adhesive manufacturers advice).** The adhesive should be applied using an appropriate 'V' notched trowel as recommended by the adhesive manufacturer. It is important that the notches on this trowel remain this size throughout the duration of the installation. It is also extremely important that the iQ Toro SC is placed into acrylic adhesive whilst **wet** and roll with a 68Kg roller in both directions.
20. Repeat procedure for second half of the sheets as soon as the first half has been adhered.
21. Repeat rolling at 15 minute intervals until fully bonded to the subfloor, paying close attention to the seams, cross-joints, ends of the sheets and any inaccessible are. Wipe any excess of adhesive away with a cloth moistened with water or if dry nothing stronger than white spirit.
22. After a lapse of at least 24 hours, hot weld the iQ Toro SC using iQ Toro SC weld rod at a temperature of between 250-300°C when fitted with a Tarkett speed-weld nozzle.

INSTALLATION TILES

1. Prepare the subfloor as necessary and remove all traces of debris.
2. Ensure that material with the same batch number is allocated to each area to be installed. Consecutive box numbers should also be used.
3. Plan the area to be installed to ensure whenever possible that small cuts of tiles are not used, especially near doorways.
4. Choose the longest wall in the area to be installed.
5. Measure out from this wall at either end, across to the other side of the room.
6. If there is a significant difference in both these sizes choose the larger of the sizes.
7. Again measure out from the same wall at both ends. This time measure only half the size previously chosen. Mark this size on the subfloor in pencil.
8. Strike a chalk line between both pencil marks. This chalk line indicates the centre of the width of the room.
9. Repeat procedures 2-6 on the shortest wall. This now indicates the centre of the length of the room.
10. Although the centre point of the area to be installed has now been identified, this procedure does not calculate the size of the part tiles that will have to be inserted at the edge of the walls. They may be too small to be acceptable. (-10cm)
11. To adjust the size of the perimeter tiles, move the centre chalk-line half the size of the tile. E.g.: - tile size 61cm, move chalk-line 30.5cm from its present location. By doing this, the tile size at the perimeter of the walls will increase or decrease in size whilst still achieving a balance tile size on either side of the area being installed.

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12. When the chalk-lines are in their final position, butt a straightedge up against them and draw a pencil down the edge of the straightedge onto the subfloor. Apply the adhesive up to the edge of the pencil mark, which represents the chalk-line.
13. Apply a conductive adhesive from the current adhesive range of Uzin KE 66L, F.Balls-F57, Laybond - Conductite or Tremco-106. **Conductive adhesive is to be applied to the subfloor to secure the copper foil (if it is not self adhesive) and over the surface of the copper foil to form a connected secure bond. (Uzin KE 66L, F.Balls-F57, Laybond-Conductite or Tremco-106)**
14. The adhesive should be applied using an appropriate 'V' notched trowel as recommended by the manufacturer to suit the choice of adhesive. It is important that the notches on this trowel remain this size throughout the duration of the installation. Place the iQ Toro SC Tiles into the adhesive whilst wet and roll with a 68Kg roller in both directions.
15. When applying adhesive to the subfloor to receive the tiles, it is important that only the amount of square metres that can be comfortably covered by the tiles within the open time of the adhesive should be applied.

Please note

16. Failures of tile installations are almost always due to late placing of the tiles into the adhesive. In other words the adhesive was too dry when the tiles were placed on the floor. Perimeter tiles are notorious failure areas.
17. When installing anti-static or static-conductive floorcoverings, it is extremely important to install the floorcoverings whilst the adhesive is wet and roll well.

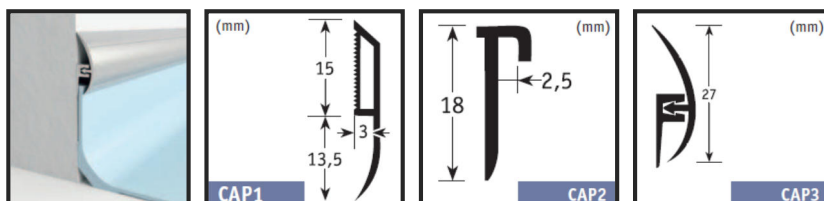
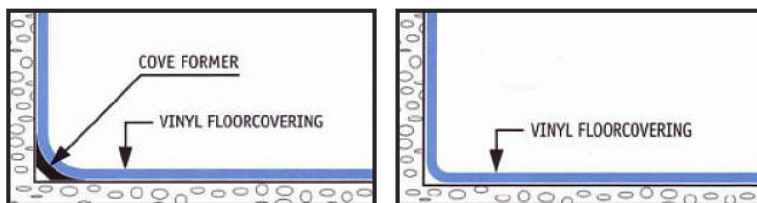
Warning: When cutting tiles, be careful not to cut into or damage the copper foils below

18. When installing tiles, try to leave the perimeter area dry of adhesive, especially in large areas. Fit the tiles dry, then remove and apply the adhesive or apply the adhesive just prior to cutting to size.
19. Roll the tiles into the adhesive as the installation is progressing. Do not wait until the installation is complete.

VARIOUS TYPES OF COVING

SELF COVING

This product can be coved without a cove former. Simply fold and crease product into a 90° angle (corner roller - item 1258010 / hockey stick - item 1258003). This method of coving eliminates internal and external vertical joints by allowing the material to be wrapped around these design details by using a series of 45° angle cuts. It is also possible to self-cove product over a 2 & 3.8cm radius cove former and up a wall to a desired height where it is normally finished to a PVC capping seal. This can be achieved in one piece with a minimum of joints, although there will have to be internal and external vertical joints. Adhere all vertical surfaces and cove detail with a solvent free contact adhesive.

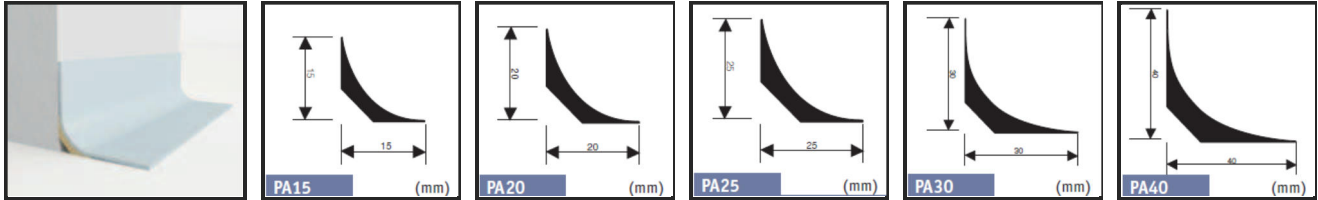


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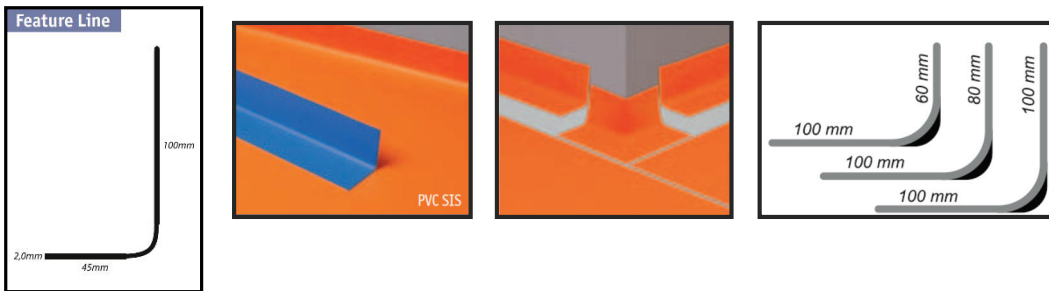
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TARKETT PVC SET-IN COVING

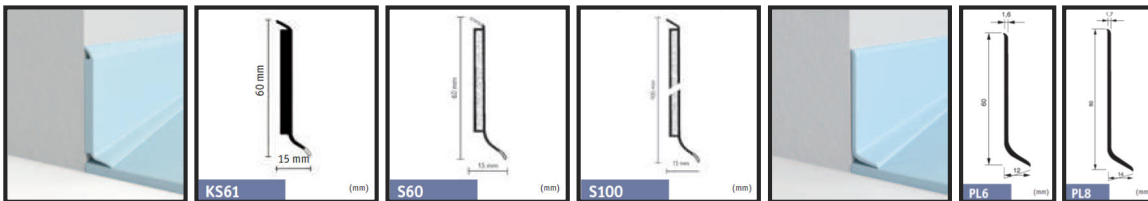
Fix the coving to a prepared wall and subfloor with a contact adhesive. Measure the area to be installed and cut off the lengths of the vinyl so that they overlap onto the cove by approximately 2cm. Overlap sheets by 2.5cm and re-cut to leave a close butt joint. Adhere the vinyl using the same acrylic adhesive as before for the sheet (whilst still overlapping onto the cove) up to the edge of the set-in cove. Using short scribes, (over & unders) scribe and cut the vinyl to the edge of the set-in cove and roll with a 68Kg roller whilst the adhesive is still wet. After the lapse of at least 24 hours, hot weld all sheet to sheet and sheet to set-in coving joints with the matching/Colour coded product welding rod.



PVC SIT-ON COVING

This type of coving should not be used when watertight joints are required. It is normally used as an alternative to a wooden skirting in areas that will not be subjected to large amounts of surface applied water.

Install the floorcovering in the normal manner, scribing to a wall instead of a skirting and adhere to the subfloor. Fix the coving to a prepared wall with a contact adhesive. Prior to adhering the sit-on coving to the wall, the scribed edge of the floorcovering to the wall can be sealed with a sealant. This will provide extra protection to the floorcovering from surface moisture attack, but should not be used as a cheaper alternative to a pre-formed coving or self-coving when a watertight joint is required.



WELDING - SHEET

1. Allow at least 24 hours to lapse prior to hot welding with the product welding rod.
2. Groove seams using a Tarkett Seam Groover (1258027) & Blade (1258028), "P" type grooving tool or an automatic seam router.



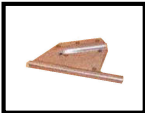
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3. The product should be grooved 2/3 into its thickness.
4. Make sure the groove is clear of all debris and excess adhesive prior to commencing welding.
5. The recommended welding temperature is 250-300°C when fitted with a Tarkett speed-weld nozzle, item - 1258012.



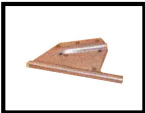
6. Using a Leister hot air welding gun fitted with the speed-weld nozzle, this will require the setting to be approx 5-6. If unsure consult manufacturer's instructions for correct setting. Set the welding gun at this temperature for several minutes prior to commencing welding to attain the correct temperature.
7. Try out the welding operation on a scrap piece of product prior to welding the floor joins.
8. Weld at approximately 2m a minute. Preferably 2 people welding. One operative welding at least 3m ahead of the other prior to the second person trimming the cable 1mm proud of the product with the aid of a spatula knife inserted into a welding slide. The weld should then be allowed to cool down. Finally trim the weld cable flush to the surface of the product using the spatula knife only.

WELDING - TILES (IF REQUESTED)

1. Allow at least 24 hours to lapse prior to hot welding with the product welding rod.
2. Groove seams using a Tarkett Seam Groover (1258027) & Blade (1258028), "P" type grooving tool or an automatic seam router.



3. The product should be grooved 2/3 into its thickness.
4. Make sure the groove is clear of all debris and excess adhesive prior to commencing welding.
5. The recommended welding temperature is 250-300°C when fitted with a Tarkett speed-weld nozzle, item - 1258012.



6. Using a Leister hot air welding gun fitted with the speed-weld nozzle, this will require the setting to be approx 5-6. If unsure consult manufacturer's instructions for correct setting. Set the welding gun at this temperature for several minutes prior to commencing welding to attain the correct temperature.
7. Try out the welding operation on a scrap piece of product prior to welding the floor joins.
8. Weld at approximately 2m a minute. Preferably 2 people welding. One operative welding at least 3m ahead of the other prior to the second person trimming the cable 1mm proud of the product with the aid of a spatula knife inserted into a welding slide. The weld should then be allowed to cool down. Finally trim the weld cable flush to the surface of the product using the spatula knife only.

COPPER FOIL INSTALLATION

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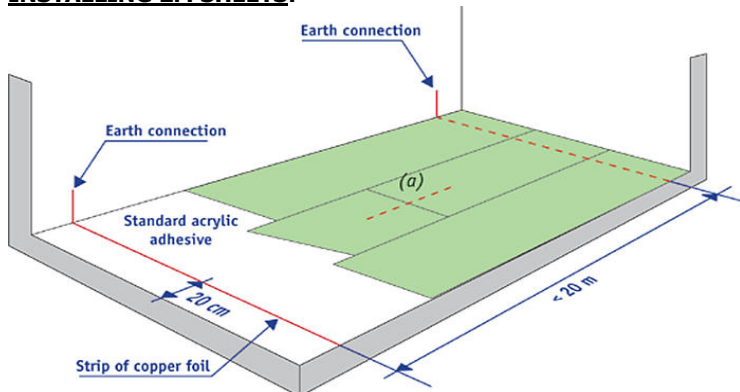
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The construction of the Granit AS/SD static dissipative homogeneous flooring and the Toro EL/SC homogeneous conductive coverings allows the use of standard acrylic adhesives when installing sheet coverings (2 m), for Primo SD static dissipative homogeneous flooring conductive acrylic adhesive must be used. When installing tiles (61 x 61 cm), use the conductive acrylic adhesive recommended by Tarkett.

The work must be carried out in conformance with the requirements of the current relevant Standard within the country where the installation is taking place. e.g.: for dryness, substrates, temperature and preparation.

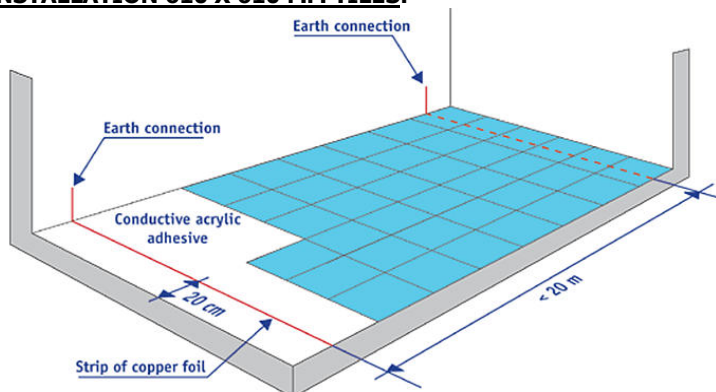
INSTALLING 2M SHEETS:



- Sheets of less than 10 metres: Install a strip of copper foil transversally beneath the sheets approximately 20 cm from one end.
- Sheets of between 10 and 20 metres: A strip of copper foil is laid transversally beneath the sheets, about 20 cm from each end.
- Sheets of more than 20 metres: A strip of copper foil is laid transversally beneath the sheets, about 20 cm from each end and every 20 metres.

NOTE: Where a cross joint is made, place a 1 m length of copper foil strip below the sheets, equally positioned, parallel to the direction of sheet. (a)

INSTALLATION 610 X 610 MM TILES:



Install an earthed strip of copper foil transversally every 20 metres.
The tiles are to be adhered with a conductive acrylic adhesive recommended by Tarkett.

Earth connections are to be made by an electrician.
Note: Tarkett can supply copper foil strip that are 0.06 mm thick and 25 mm wide.
Packaged on 2 to 6 kg reels (1 kg is equivalent to 76 ml).

Joining procedure: All sheet joints and coving detail if present, are to be hot welded with welding rod.

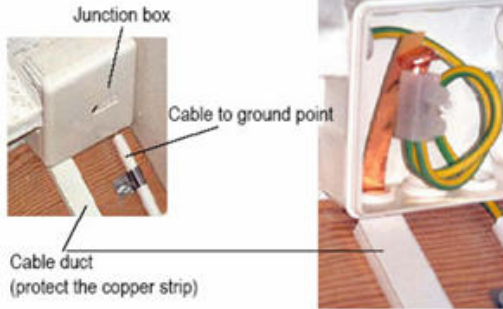
EXAMPLES OF EARTHING CONNECTIONS FOR COPPER GRID SYSTEMS

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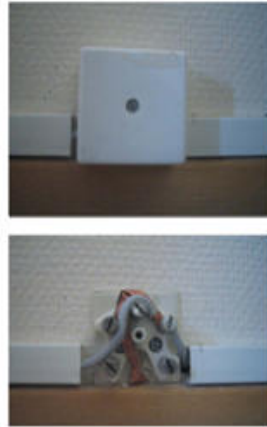
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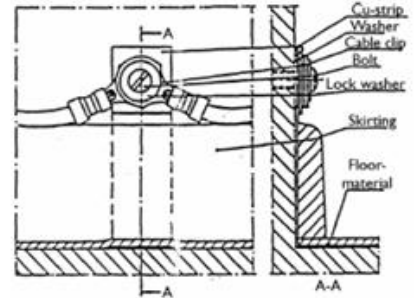
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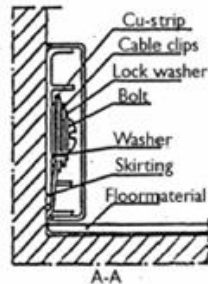
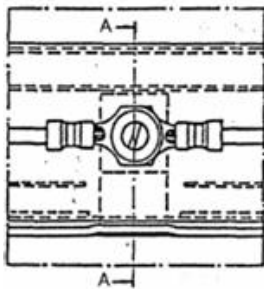
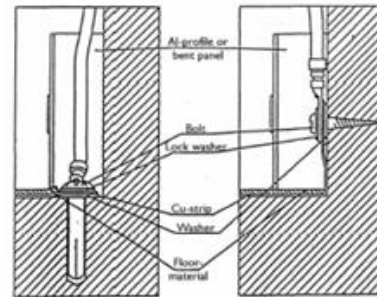
Example connecting to ground point



Example connecting to ground point



Example connecting to ground point



1256727 Copper Foil Tape

Special electrolytic grade, zero temper, high tensile copper foil. Acrylic adhesive system. Foil readily accepts solder and is extremely malleable.

Adhesive type:	Acrylic
Adhesive thickness:	0,042 mm (42 μ)
Total thickness including adhesive:	0,074 mm (74 μ)
Width	12 mm
Shear Strength:	13,8 kPa
Peel Adhesion:	14,1 N/2,5 cm
Tensile strength:	113,2 N/2,5 cm
Elongation:	9%
Temperature Resistance:	-40°C to 121°C
Release Liner:	Polycoated densified natural kraft