NBS M50 ALTRO PISCES SAFETY FLOORING
COMBINED PARAGRAPHS

TYPE(S) OF COVERING

155 PVC SHEET FLOORING FOR SHOES & BAREFOOT IN WET ENVIRONMENTS
- Location:
- Base:
- Preparation: Clauses
- Fabricated underlay: n/a
- Flooring roll: PVC floor covering to BS EN 13553 / EN 13845
- Manufacturer and product reference:
  - **Altro Pisces 2mm thick Safety Floor by Altro Floors**, telephone 01462 480480
- Identity Code: W2
  Usage classification: EN ISO 10874 class 34/43
- Slip potential: Pendulum test value (PTV) (minimum) to EN 16165 Annex C / BS 7976: ≥50 (wet slider 96)
- Surface roughness (Rz) (minimum) to BS 1134: ≥20
- Recycled content:10%
- Width: 2000 mm
- Thickness: 2mm
- Colour: TBC
- Adhesive (and primer if recommended by manufacturer): AltroFix 19 Plus
- Seam welding: Hot welding with matching Altro Welding Rod, as clause 680A
- Accessories: Altro CF20R, CF38R, C7, C8 and C11.
- Skirting: Clauses 771a
- Maintenance and Finishing: Clauses
- Special requirements:
  - Where the flooring is used to form the coved skirting, make certain that the wall background is smooth, primed, clean and dry enough to allow full adhesion of the system.

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GENERALLY

210 WORKMANSHIP GENERALLY:
- All bases must be rigid, dry, sound, smooth and free from grease, dirt and other contaminants before coverings are applied
- Finished coverings must be accurately fitted, adequately sealed, tightly jointed, securely bonded, detailed appropriately, smooth and free from air bubbles, rippling, adhesive marks and stains

220 SAMPLES:
- Before placing orders, submit for approval a representative sample of each type of covering. Ensure that delivered materials match samples

230 CONTROL SAMPLE(S):
- Complete area(s) of the finished work in approved location(s) as follows, and obtain approval of appearance before proceeding:

  _____
  _____
  _____

250 LAYOUT:
- Agree setting out of seams before ordering roll materials for sheeting type(s) M50/150

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251 LAYOUT:
- Set out sheet coverings so that seams and cross seams are kept to a minimum. Cross seams will not be permitted unless otherwise stated. Where possible, keep seams away from main walkways, doorways and shower areas

252 LAYOUT:
- Agree setting out of pattern before ordering materials for covering type(s) M50/150

270 EXTRA MATERIAL:
- Provide **5%** extra of each type of covering to be handed over to the Employer at completion

310 MARKING:
- Ensure that materials are delivered to site in original packaging, clearly marked with shade and batch number

320 STORAGE:
- Store materials in a clean, warm, dry, well-ventilated place. Keep in original packing until conditioning commences. Always store rolls in an upright position

330 COMMENCEMENT:
- Do not lay materials until building is weathertight, wet trades have finished their work, the building is well dried out, all paintwork is finished and dry, conflicting overhead work completed, and floor service outlets, duct covers and other fixtures around which the materials are to be cut have been first fixed. Inform CA not less than 48 hours before commencing laying

340 ACCLIMATISATION / CONDITIONING:
- Before laying commences thoroughly condition materials by unpacking and separating them into the areas where they are to be laid. Maintain resilient flooring rolls in an upright position. Minimum conditioning time of 24 hrs pre installation at a temperature to be as recommended between 18°C - 27°C. Extend period by a factor of 2 for materials stored or transported at a temperature of less than 10°C immediately prior to laying. Rolled products can also be conditioned laid flat, face up, where possible.

350 ENVIRONMENT:
- Provide adequate ventilation and maintain temperature between 18°C - 27°C and relative air humidity between 35% - 65% for at least 48 hrs. pre, during and post installation in alignment with BS 8203:2017 and Altro installation guidance. Where areas are intended to be used outside these parameters, either temporarily or permanently post installation, temperatures should be incrementally decreased or increased ideally between 2-3°C and no more than 5°C per day ensuring the adhesive selection aligns

360 UNDERFLOOR HEATING:
- Underfloor heating should be fully commissioned prior to preparation or installation and be switched off 48 hours prior to laying the floor covering in accordance with BS 8203:2017. The heating should not be turned on until at least 48 hours after laying and peak temperature should be avoided for several days. Temperatures should be incrementally decreased or increased between 2-3°C per day. Consult adhesive manufacturer for more information
- Where underfloor heating is the only heat source, temporary portable heating should be used. Fossil fueled heating should be avoided
- Relative humidity must not exceed 75% RH
- Maximum temperature at the adhesive line - 27°C. Ideally controlled using a probe inserted/encapsulated into the flooring system. Please note – this is not ambient air or manifold temperature
- All UFH systems should be installed, commissioned and monitored by a competent professional

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PREPARING BASES

410 SUITABILITY OF NEW BASES AND CONDITIONS:
- Laying of coverings will be taken as joint acceptance by the Main Contractor and Subcontractor of the suitability of the bases and conditions within any given area
- Follow BS 8204-1:2003+A1:2009 and BS 8203:2017

420 SUITABILITY OF EXISTING BASES AND CONDITIONS:
- Before commencing work, the subcontractor must confirm (through the Main Contractor) that existing bases will, after the specified preparation, be suitable to receive the specified coverings.
- Laying of coverings will be taken as further acceptance of the suitability of the bases and of the conditions within any given area
- Follow BS 8204-1:2003+A1:2009 and BS 8203:2017

430 DAMPNESS:
- Where coverings are to be laid on new wet-laid bases or bases that are direct to earth:
- Ensure that drying aids have been turned off for not less than 4 days, then
- Test for relative humidity (RH) using an accurately calibrated hygrometer in accordance with BS 5325, Annex A or BS 8203:2017, Annex B
- Take readings in all corners, along edges, and at various points over the area being tested.
- Do not lay coverings until all readings show 75% relative humidity or less
- Where readings show above 75% RH or if doubt persists, the installation of a surface applied damp proof membrane is required
- Where substrates contain UFH, surface hygrometer boxes are recommended for testing

440 SUBSTRATES:
- The specifications for trowelled finishes to receive thin floor coverings require:
- A uniform, smooth surface free from trowel marks and other blemishes, and suitable to receive the specified floor finish material
- Adequate protection from construction traffic
- Allowance for making good by application of a smoothing compound or skim coat and to the satisfaction of the flooring subcontractor in the event of the surface being unsuitable due to inadequate finishing or protection
- Must be initially cured (typically 1 week per inch) prior to overlaying including preparatory materials
- Movement or expansion joints must continue through the preparatory materials including final floor finish
- Day joints and cracking to be made good by means of stitching (conditions apply)
- Saw cuts to be checked and infilled using an appropriate compound and in some instances may require stitching (conditions apply)

440A SUBSTRATES: SHOWER TRAYS, DRAINS AND FALLS:
There are no specific British Standards on shower falls however, the following should be considered:
- Shower trays can be formed from cementitious compounds, timber or preformed shower trays and be free from dips or irregularities and must be moisture tolerant
- Free from deflection or differential movement including where trays meet subfloors and underlayment's
- Drain gullies should be of a clamping type and ideally, centred a minimum of 300mm away from any perimeter wall
- Tray and gully size to be discussed with the manufacturer and be sufficient for the area size and water flow
- Falls within shower areas to be between 15mm – 25mm or a minimum of 1:80 (guidance only)
- Remaining horizontal floor space remains smooth and must gradually fall towards the shower area
- Incorporate adequately fitted screens or curtains where appropriate (conditions apply)
Install the flooring during the first fix phase

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462 SMOOTHING UNDERLAYMENT OVERVIEW
- Alternative smoothing compounds may be used providing a full specification is provided by the relevant manufacturer
- All smoothing compounds must be tested and compatible with Altro Proof (where applicable)
- The use and specification of appropriate primers, MVS or DPM is recommended
- In all instances, consult with relevant manufacturers regarding the suitability and compatibility for the use area and associated products within the system
- Compressive, flexural, and tensile strength must be considered for the intended use area (where applicable)
-

462A SMOOTHING UNDERLAYMENT COMPOUND:
- Manufacturer and reference: **Ardex UK Ltd, Arditex 'NA' smoothing**
- Apply to base at a minimum thickness of 3mm in accordance with manufacturer's product data sheet incorporating aggregate for applications more than 12mm thick
- Achieve SR2 (surface regularity) measured with a slip gauge not exceeding 5mm over a 2-meter straight edge
- Ensure the smoothing compounds compressive strength is adequate for intended static or rolling loads
- Allow to dry before laying Altro floorcovering

462B SMOOTHING UNDERLAYMENT COMPOUND:
- Manufacturer and reference: **F Ball & Co Ltd STOPGAP 1200 smoothing compound**
- Apply to base at a minimum thickness of 3mm in accordance with manufacturer's product data sheet incorporating aggregate for applications more than 12mm thick
- Achieve SR2 (surface regularity) measured with a slip gauge not exceeding 5mm over a 2-meter straight edge
- Ensure the smoothing compounds compressive strength is adequate for intended static or rolling loads
- Allow to dry before laying Altro floorcovering

470 EXISTING FLOOR COVERING TO BE REMOVED:
- Completely remove covering and as much adhesive as possible, leaving a residue only. Where necessary, mechanically abrade and ensure the substrate and existing preparatory materials are well bonded and sound. Apply smoothing compound as per the manufacturers recommendations to give a smooth, even surface to SR2

480 EXISTING FLOOR COVERING TO BE OVERLAID:
- Make good by local rebonding, patching or filling with a minimum of 3mm smoothing underlayment / compound to give a smooth, absorbent and even surface
- Products must be firmly bonded, adequately ventilated, sound, dry, and free from contamination (conditions apply)
- NOT included but not limited to; resilient products such as PVC, linoleum, rubber, paint, Granwood, floating or unbonded floors, finger parquet, hardwood on ground floors, cork, or textile flooring types
-

520 TIMBER SUBSTRATES:
The specification for timber substrates to receive thin floor coverings require:
- A uniform, smooth surface free from; protruding fixings, nibs, ridges, broken tongues, deflection, differential movement, and where applicable, moisture tolerant
- Flooring grade plywood, OSB, particle boards, softwood, hardwood, wood-based panel boards should be a minimum of 18mm thickness, tongue and grooved (joints glued where applicable using appropriate adhesive) which should be mounted on suitable joists at 400mm centres and be adequately fixed
- Maximum moisture content of 8% MC and stable
- Adequately ventilated in accordance with BS 8203:2017
- Signs of cupping or crowning should be investigated and causes identified and rectified
- Allowance for making good by patching, mechanical sanding or the application of primers including

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flexible/fibre reinforced smoothing compound
- Adequate protection from construction traffic
- Expansion gaps and movement joints should not be bridged and must continue through the preparatory material including final finish

531A SURFACE DAMP PROOF MEMBRANE:
- Manufacturer and reference: **Altro Proof standard variant epoxy surface damp proof membrane by Altro Floors effective up to 97% R.H.**
- **NB:** Please note Altro Proof fast-track variant is also available where floor coverings are to be laid same day. Conditions apply
- In the event of underfloor heating please consult Altro Technical for conditions of use.
- Apply in accordance with manufacturer's instructions

541A SHEET UNDERLAY:
- Manufacturer and reference: **Altro Everlay A** by Altro Floors.
- Width: **2000 mm**
- Thickness: **1.2 mm**
- Set out in same direction as planned for the sheet floorcovering, with butt joints staggered to avoid seems in floorcovering. Lay loose and flat with no distorting bumps and cut into perimeter. For areas with falls such as shower areas, fully bond using AltroFix 19 Plus (conditions apply)

541B SHEET UNDERLAY:
- Manufacturer and reference: **Altro Everlay B** by Altro Floors.
- Width: **2000 mm**
- Thickness: **4mm**
- Set out in same direction as planned for the sheet floorcovering, with butt joints staggered to avoid seems in floorcovering. Lay loose and flat with no distorting bumps and cut into perimeter. For areas with falls such as shower areas, fully bond using AltroFix 19 Plus (conditions apply)

541C SHEET UNDERLAY:
- Manufacturer and reference: **Altro Acoustic Underlay 1101** by Altro Floors.
- Width: **1150 mm**
- Thickness: **3mm**
- The underlay can be laid in either the same direction or at 90 degrees to the surface material, but with joints not corresponding. Fully bond using AltroFix 19 Plus or similar approved moisture tolerant adhesive. Please adhere to manufacturer's instructions (conditions apply)

560 PLYWOOD UNDERLAY:
- To an approved national standard.
- Bonding quality to BS EN 314-2 Class 3
- Specification: EN 632-2, BS 13986, BS EN 636-3 (refer to BS 8203:2017 Annex A and Contract Flooring Association)
- Finish: One side sanded, good faced, free from knots
- Thickness: 5.5 mm (min req.) – 22mm
- Sheet size: _____ x _____ mm.
- Condition sheets.
- Ensure that existing timber boards are securely fixed and acceptably smooth. Remove or fill any gross irregularities. Punch or screw in any protruding fasteners.
- Lay sheets with cross joints staggered and such that no joints within the base and underlayment is coincident and off set with the timber base with a 0.5-1 mm gap between sheets and perimeters.
- Fix with a minimum 20mm ring shanked or timber screws, commencing at the centre of one side of each sheet, at 150 mm grid centres over the area of each sheet and at 100 mm centres along perimeter, set in 12 mm from edge. For thicker underlayment's (above 5.5mm), larger fixings will be required and are typically 2-2.5X the thickness of the underlayment (guideline only)
- Consideration of substrate and underlayment thickness is recommended prior to fixing to prevent penetration on the underside or inadequate fixing
- Ensure that fasteners are driven well in, with heads set flush with surface, and do not project

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through underside of base. Remove and replace fasteners that deform while being driven
- Skim all joints and fixings using a skim coat/feather finish
- Allowance for making good irregularities by means of primers and flexible/fibre reinforced smoothing compounds if necessary

LAYING COVERINGS

610A SETTING OUT
- Place the material in position on the floor, allowing between 50-100mm per length for trimming, and overlapping at the joints at an optimum of 20mm
- Where areas are glazed, lay direction of sheets towards the windows to improve ascetics of joints (if possible)
- Cut-in material consistently along seams removing both factory edges

620 COLOUR CONSISTENCY:
- In any one area/room use only coverings from the same production batch to prevent banding or patchiness resulting from colour/flash variation
- Lay products in the direction stated in the associated product range (laid directionally or reversed laid)

640 ADHESIVE FIXING GENERALLY:
- Adhesive: AltroFix 19 Plus and a suitable approved contact adhesive. When not specified otherwise, a suitable recommended approved moisture tolerant type to be as recommended by covering or underlayment manufacturer as appropriate or, in the absence of such recommendation, type to be approved
- Use a primer where recommended by adhesive manufacturer or on absorbent surfaces such as plaster. Allow to dry thoroughly before applying adhesive
- Spray adhesives should be avoided in all instances
- Spread adhesive evenly and lay covering, pressing down firmly and rolling laterally and transversely (if recommended) to ensure full contact and a good bond overall. Reroll (if recommended) within 30 minutes unless otherwise stated
- Remove all surplus adhesive from exposed faces of coverings as the work proceeds
- Trowel ridges and high spots caused by particles on the substrate will not be accepted

641A ADHESIVE FIXING – ALTRO SHEET FLOORING:
- Place the material in position on the floor, allowing 50-100mm per length for trimming, and overlapping by an optimum of 20mm.
- Cut-in material consistently along seams removing both factory edges
- Fold (do not roll) the material back along half its length. When adhesive is ready, refold material back onto adhesive avoiding unnecessary air entrapment. Repeat for second half of material ensuring adhesives meet, but do not overlap
- Consult data sheet on rolling requirements.

670A BORDERS/FEATURE STRIPS of sheet material:
- For traditional, non-vulnerable areas, cut strips along the length of the sheet to prevent curl
- Mitre joints at corners unless otherwise stated

670B BORDERS/FEATURE STRIPS of sheet material:
- For volatile areas or where mitres are exposed to a greater risk of impact, cut Altro butterfly mitres at internal and external corners unless otherwise stated
- See relevant Altro detail drawings Altro Technical Documents Downloads | Altro UK.

680A SEAM WELDING:
- Do not commence welding of coverings until a minimum of 24 hours after laying or until adhesive has initially cured. Some adhesives allow this time to be reduced
- Cut groove, 3 mm wide by 2/3 the depth of material, evenly along each joint using:
  - Altro hand grooving tool or P type groover
  - Automatic grooving machine fitted with diamond blade

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- Do NOT cut through entirely to expose the underlayment or substrate
- Hot-weld using hot air welding gun (fitted with standard high-speed or anti-glaze speed welding nozzle) and Altro welding rod. Select colour of rod to match floor covering. Cut off surplus weld rod with spatula or Mozart trimming tool. Do not chemical weld
- Form a neat, smooth, strongly bonded joint, flush with finished surface

720 DOORWAYS:
- Make seam on centre line of door leaf unless specified otherwise

731A SEALANT:
- Manufacturer and reference: AltroMastic 100 by Altro Floors, colour to match floorcovering.
- Location: To all exposed edges of flooring material including around all protrusions through floor and pipework and including underside of Altro C8 capping and upperside of Altro C7 capping as necessary

740 EDGINGS/COVER STRIPS:
- Manufacturer and reference(s): Quantum Profile Systems
- Material/finish: Aluminum / PVC
- Fix securely in accordance with manufacturers instructions

741A EDGING TO CERAMICS, RESINS INCLUDING LIFTS, ACCESS HATCHES, OR OTHER RIGID FLOOR FINISHES:
- Manufacturer and reference: Visedge VR Edge Strip by Howe Green Ltd.
- Size: 9 mm deep x 30 mm wide.
- Cut recess in base, bed edge strip level in epoxy mortar, and securely screw to base with neatly mitred joints.
- Make good base by filling with smoothing compound to give a smooth, even surface.
- Cut, groove and hot weld PVC insert to Altro safety flooring
  - See Altro detail drawing D12

741B EDGING TO (CONSULT ALTRO TECHNICAL SERVICES):
- Use disc cutter to form 25 mm deep x 4 mm wide channel at junction with adjacent floor finish.
- Manufacturer and reference: Gully Angle GA25/35 by Altro Floors
- Size: 25 x 25 mm
- Colour: Black
- Orientate angle to suit the thickness of flooring material. Fix securely and level with neatly mitred joints, bonding to base and inside of chase using AltroFix 19 Plus
- Cut, groove and hot weld angle to Altro safety flooring
  - See Altro detail drawing D10

742 DRAIN OUTLETS:
- Drain outlet/channel to be clamping ring type gulley/type channel such as those supplied by Wade International, tel: 01787 475151. The Altro flooring should be dressed into the drain outlet/channel and be clamped by the clamping ring/clamping section. Drain gully to be centered 300mm away from walls or perimeters
  - See detail drawing D13 (ring type gully)
  - Alternatively drawing reference D14 (channel type)

770A SET-IN COVED SKIRTINGS (NON-WET AREAS):
- Manufacturer and reference(s): Quantum Profile Systems Q100 50 2 SI(C).
- Size: 100mm high x 25mm wide at base.
- Colour: Black 208 / Dove 001 / White WHT
- Securely bond with top edge straight and parallel with floor. Accurately mitre at corners
- Adhesive: Suitable approved recommended
- Hot weld to edge of floor with matching Altro Welding Rod. Do not chemical weld
- Seal mitred corners using AltroMastic 100
  - See Altro detail drawing D3

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770B SIT-ON COVED SKIRTINGS (NON-WET AREAS):
- Manufacturer and reference(s): Quantum Profile Systems Q100 SO
- Size: 100 mm high x 19 mm wide at base
- Colour: TBA
- Seal between wall and floor perimeter with AltroMastic 100, prior to fixing skirting.
- Securely bond with top edge straight and parallel with floor. Accurately mitre at corners.
- Adhesive: Suitable approved recommended
    - See Altro detail drawing D2

771A SELF-COVED SKIRTINGS - GENERAL:
- Cove former: Altro 38R
- Securely bond to base and background
- Turn flooring material up wall and securely bond to cove former and background, with top edge straight
- Accurately mitre at corners
- Height: Minimum 100mm
- Top edge: Altro: C7 Capping Seal / C8 Captile Strip / C11 Quarry Tile Seal. Exposed edges where self-coved meets flat fit, return capping to floor
- Primer: Suitable approved recommended
- Adhesive: Suitable approved recommended
- Hot weld joints and mitred corners or seams with matching Altro welding rod. Do not chemical weld
    - See Altro detail D4 (C7) / D5 (C8) D6 (C11)

771B SELF-COVED SKIRTINGS - WHITEROCK:
- Cove former: Altro 38R
- Securely bond to base and background
- Turn flooring material up wall and securely bond to cove former and background, with top edge straight
- Accurately mitre at corners
- Height: Minimum 120mm
- Top edge: Overlap with Altro Whiterock by 20mm
- Primer: Suitable approved recommended for absorbent surfaces
- Adhesive: Suitable approved recommended
- Hot weld joints and mitred corners and seams with matching Altro welding rod. Do not chemical weld
- Seal underside of Whiterock sheet using AltroMastic 100 clear.
    - See Altro detail drawing WF8

773A JUNCTIONS BETWEEN SELF-COVED SKIRTINGS AND DOOR FRAMES/ARCHITRAVES:
- Trim cove formers using a reduced cove in proximity to door openings and terminate self-coved skirtings against side of architraves
    - See Altro detail drawing D9

780A TRAFFIC:
- After laying, keep floor covering free from traffic until adhesive has initially cured. Do not subject the floor to dynamic, rolling or static loads until at least 48 hrs after installation unless stated
- Smoothing compounds must be at an appropriate compressive strength for the intended load either temporarily or permanently. Consult subfloor preparation and adhesive manufacturer for further guidance

COMPLETION

810 CLEANING GENERALLY:
- Remove all scrap, dust and dirt. Carefully remove adhesive and other marks from coverings and adjacent surfaces, using approved cleaning agents and methods. Consult Altro Technical Services for more information

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NBS SPECIFICATION
Altro Pisces

821A FINISHING PLASTICS FLOORING:

GENERAL
- Wash floor via mechanical or manual means with water containing AltroClean 44 or equivalent suitable approved alkaline cleaner
- Thoroughly rinse with clean water to remove detergent and allow floor to dry before trafficking

SMALL / LIGHTLY SOILED AREAS
- Scrub with a deck scrubber or Altro Unipad, 14" x 4" rectangular cleaning pad ref: AHCP 14/4/10 attached to a Multimop MM30 multi mop handle as instructed above.
-
- LARGE / HEAVILY SOILED AREAS
- Mechanically scrub using a rotary cleaning machine or scrubber drier fitted with an Altro Unipad cleaning pad (or similar of the correct size) reference:
    - AMCP 13/5 13"
    - AMCP 15/5 15"
    - AMCP 16/5 16"
    - AMCP 17/5 17"

    - All of the above cleaning pads/Multimop and AltroClean 44 floor cleaner can be obtained from: All Purpose Cleaning Supplies Ltd, 6 North Street, Melton Mowbray, Leicestershire, LE13 1NL, Tel: 01664 566599

    - Contact Altro for detailed cleaning instructions:
        - Telephone: +44(0)1462 707600
        - email : enquiries@altro.com
        - website : www.altro.com

861 INDEPENDANT SLIP RESISTANCE TESTING
- Testing authority: An approved laboratory
- Floor covering(s) to be tested: M50/155
- Test: EN 16165 Annex C / BS 7976 slider 96
    - Floor covering condition: WET
    - Witnessing/ Certification: Arrange for tests to be witnessed/ certified by: _____.
    - Report: Submit

861A SLIP RESISTANCE TESTING
- Testing authority: Altro
- Floor covering(s) to be tested: M50/155
- Test: EN 16165 Annex C / BS 7976 slider 96
    - Floor covering condition: WET
    - Altro will supply on request an inspection certificate stating slip resistance of floor covering tested to EN 16165 Annex C / BS 7976

870 TEMPORARY PROTECTION:
- Temporary protection must be used during construction works to prevent contamination or damage to the finished Altro floorcovering. Protection should be removed prior to final cleaning ready for handover. Where protection is intended to be left in situ for prolonged periods, consult Altro Technical Services for information
- Cover flooring with clean dust sheets, or other nonstaining suitable material such as Correx to prevent damage from dirt and traffic prior to practical completion. Ensure any material with printed information on one face is laid with printed face uppermost. Joints of protection should be taped if necessary
- Protection should be adequate to withstand point loading or rolling loads during the construction or curing phase. Where required, lay out felt paper or thin, soft non-staining products such as Correx and overlay with plywood at a suitable thickness

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880 WASTE / RECYCLING: RECOFLOOR™

- Clean, adhesive-free off-cuts to be removed from site and taken to an Recofloor collection points for recycling.
  - Contact Altro for further details of this scheme
    - Telephone: +44(0)1462 707600
    - email : enquiries@altro.com
    - website : www.altro.com

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