



Detailing guide for commercial kitchens

Environments with drains, cleanouts, floor sinks, freezers and coolers

Product overview

Altro Stronghold 30

Altro Stronghold 30 achieves Altro's highest slip resistance rating and is designed to minimize risk in wet and greasy conditions for the lifetime of the flooring. In addition to staff safe from slips, it also helps reduce their fatigue thanks to its 3mm thickness, providing ample noise reduction and comfort underfoot. It's a perfect choice when there are frequent spillages of water and other contaminants present. Altro Stronghold 30 maintains it's 1 in a million slip resistance even with vegetable oil, greasy water and flour underfoot. Because of this, Altro Stronghold 30 is commonly installed in commercial kitchens.

Altro Classic 25

Altro Classic 25 was the first ever safety flooring. It has been tried and trusted for over 60 years, and its traditional, industrial look is still popular today. Altro Classic 25 provides lasting slip resistance, durability and abrasion resistance, making it ideal for use in heavy traffic areas – particularly in commercial kitchens. Altro Classic 25 is easy to clean and maintain and is available in practical, dirt-hiding shades. It achieves an R11 slip resistance rating. It's a perfect choice when there are frequent spillages of water and other contaminants present. Altro Classic 25 achieves our second highest level of slip resistance and is commonly installed in kitchens and back-of-house areas.

Altro Atlas

Altro Atlas 40 is our most robust safety flooring, maintaining its integrity even when superficially punctured by studs or spikes. It's well suited to

heavy-duty industrial use and sports changing rooms that see cleat traffic regularly. Hard-wearing, stable and resistant to mechanical damage and chemicals, Altro Atlas 40 provides long-term durability and slip resistance, and is easy to clean and maintain. It's a perfect choice when there are frequent spillages of water and other contaminants present. Altro Atlas 40 is commonly installed in kitchens and back-of-house areas

Heavy rolling loads

Altro flooring is sometimes installed in areas where heavy static and rolling loads occur, as well as in severe surface moisture areas. In commercial kitchen environments, carts and other associated equipment are a prime example of heavy loading on the floor that must be recognized and addressed.

While the supplied wheels or floor contact points of commercial equipment should properly diffuse weight, installation precautions can minimize indentation, de-lamination and minimize failure.

Please consult Technical Services for adhesive selection and installation method.

Severe surface moisture areas

Areas to be subjected to severe surface moisture after installation, or where at least one floor drain exists, Altro safety flooring must be installed with Altrofix 30/31, Altro Quickfix 3042 for certain small areas or repairs, or other Altro approved wet area adhesive.

Contact an Altro representative for installation information concerning these areas.

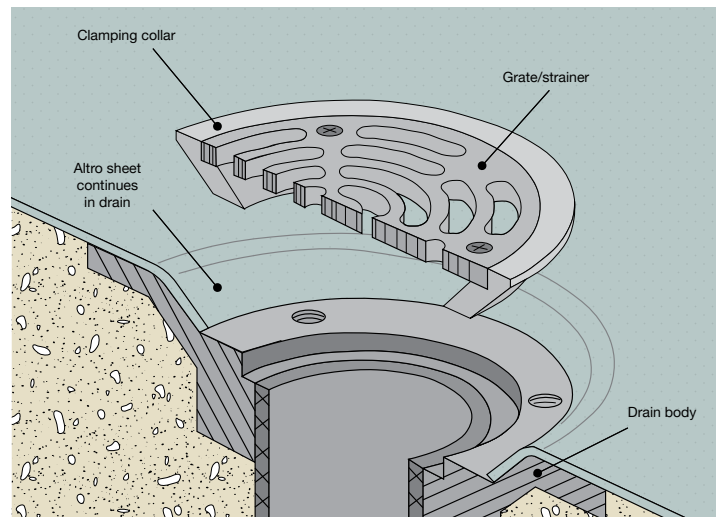
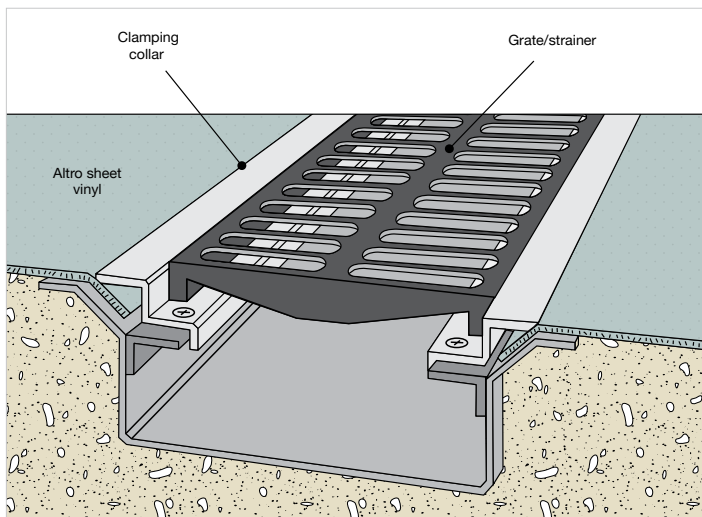
Drains + cleanout

Cutting the flooring material up to, or around, a drain, cleanout, trench drain, and other plumbing fixtures, is not a recommended installation method and will void the Altro Warranty. Please refer to the below section and our installation guide for the correct detailing or contact Altro technical services.

For Altro sheet flooring to be successfully installed in wet areas (i.e. kitchens, showers, bathrooms, pool surrounds etc) all penetrations must be detailed properly to prevent moisture from leaking under the floor. This is done by mechanically fastening the flooring in place with surface membrane clamping plumbing fixtures. Altro safety sheet flooring shall be installed in accordance with publish instructions and the applicable code(s). When provided, the floor drain must have a surface membrane clamp and shall comply with ASME A112.18.2/CSA B125.2 as applicable.

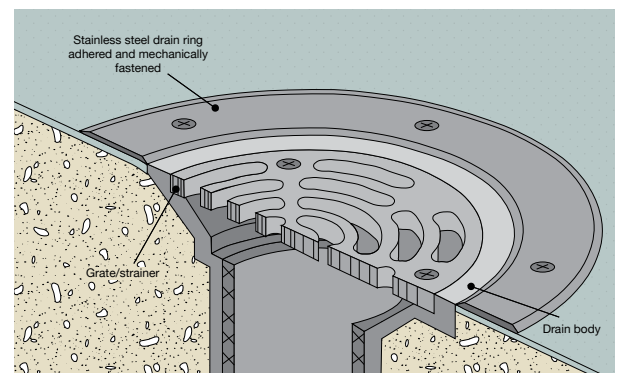
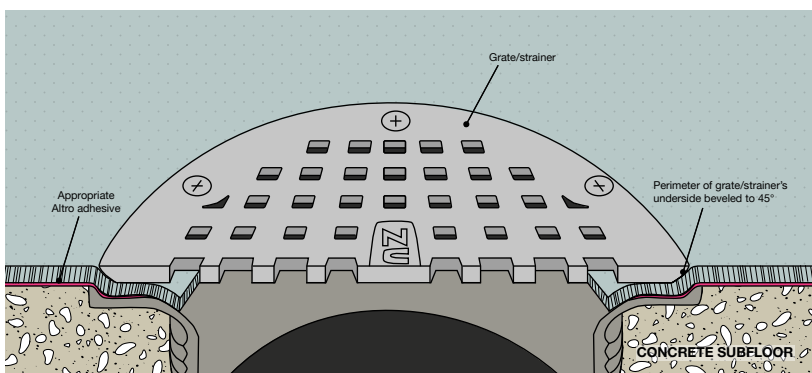
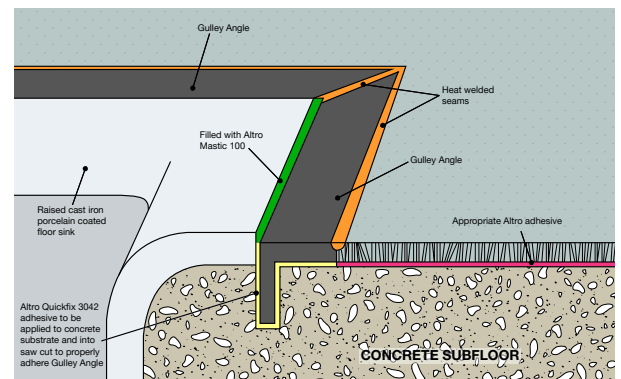
CAUTION: In many cases a drain body will have weep holes for use with a mid slab moisture membrane, which is typical for ceramic tile installations. We ask that if the specified drain body has weep holes that they be sealed as to not allow moisture from inside the drain itself from leaking back up and out the weep holes.

For a list of examples of surface membrane clamping drains, cleanouts, and floor sinks please refer to the [Altro drain supplement page](#).



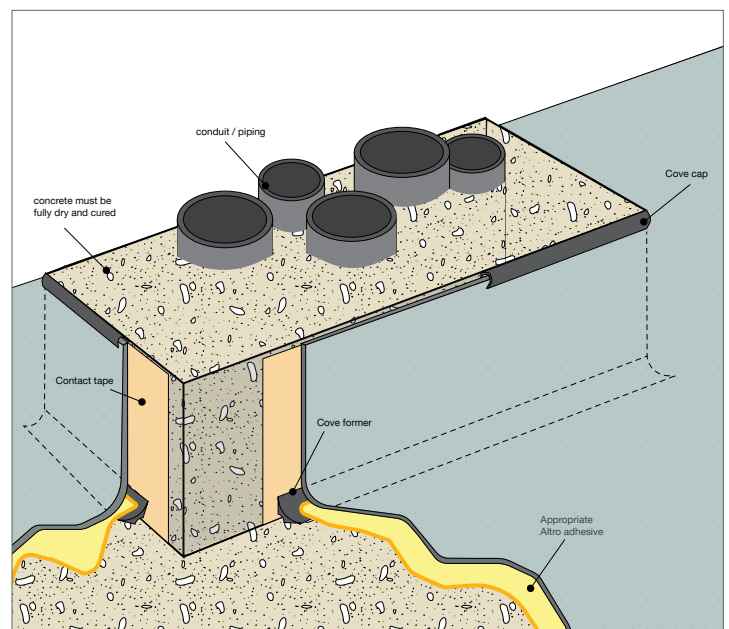
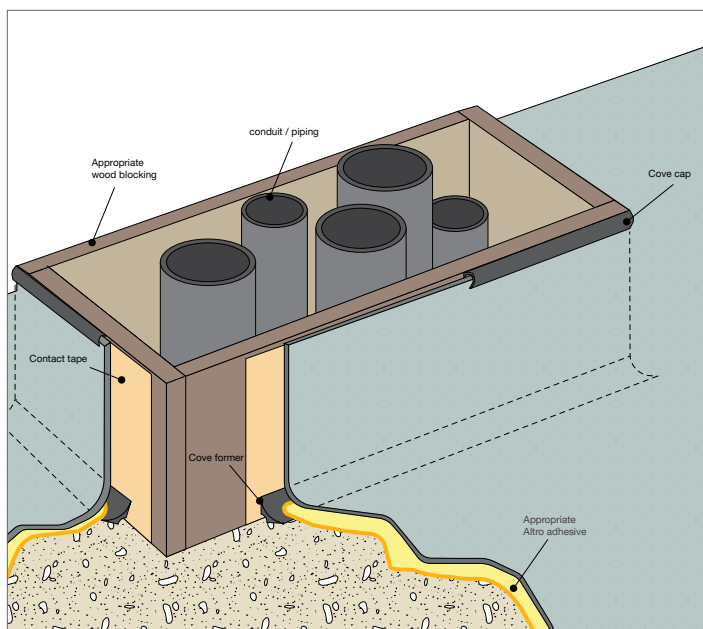
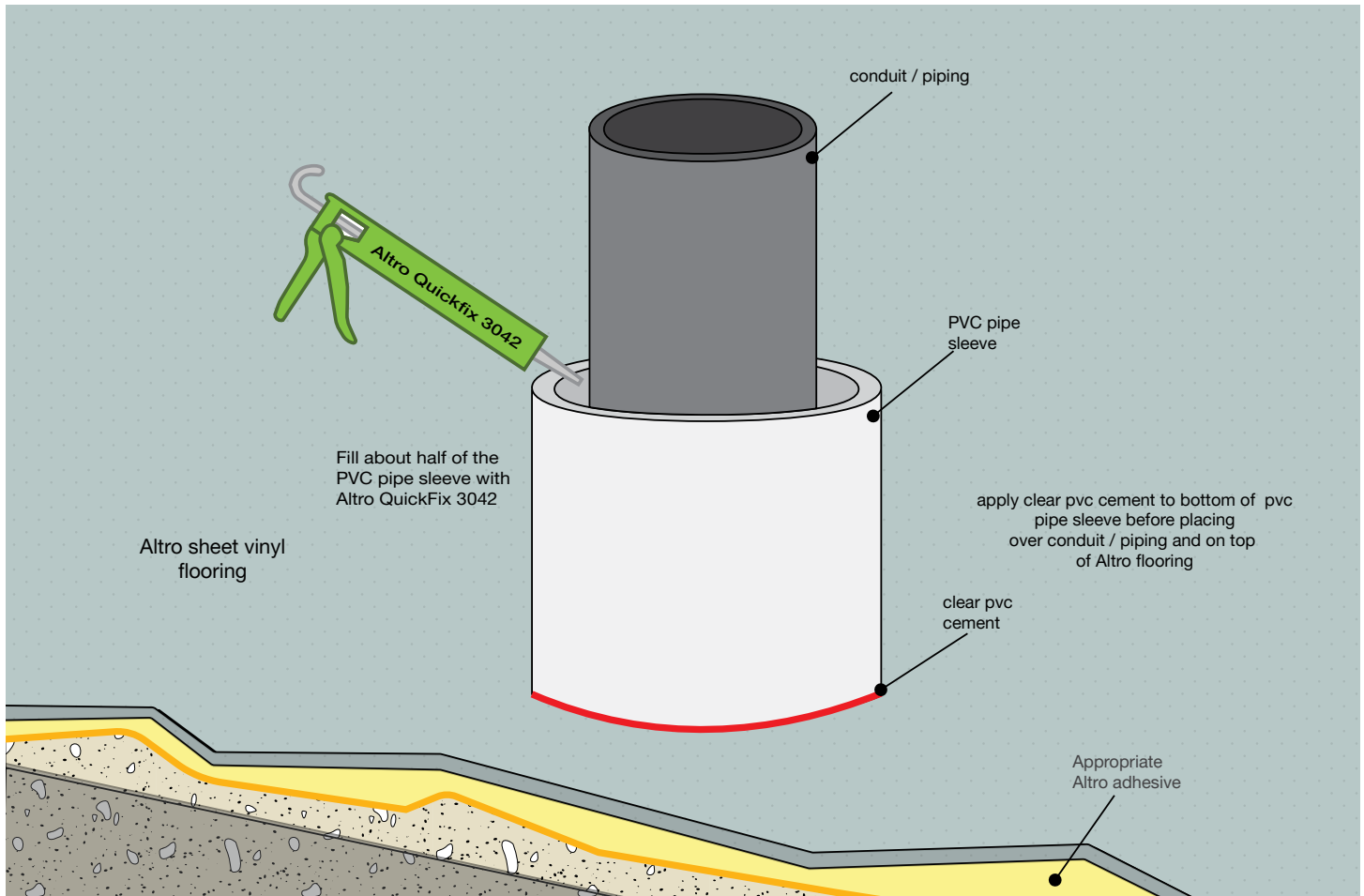
Existing drains, cleanouts and floor sinks

Some existing drains and cleanouts can be modified to become surface membrane clamping style. Refer to the Altro flooring guide for complete instructions. Stainless steel drain rings can be used in conjunction with Altro flooring. The best option is to have surface membrane clamping style plumbing fixtures, secondly is to modify existing drains to become clamping style. The third option is to use the stainless steel drain rings which are to be sourced from others, not Altro. Refer to the Altro flooring installation guide for complete instructions. Meanwhile porcelain floor sinks are commonly used and specified, these are NOT a surface membrane clamping style that Altro recommends. Altro gulley edge/angle is required to be fit and installed around a porcelain floor sink. Gulley edge/angle cannot be used on wood substrates. Refer to the [Altro flooring installation guide](#) for more information on installing Altro gulley edge/angle.



Pipe and conduit penetrations

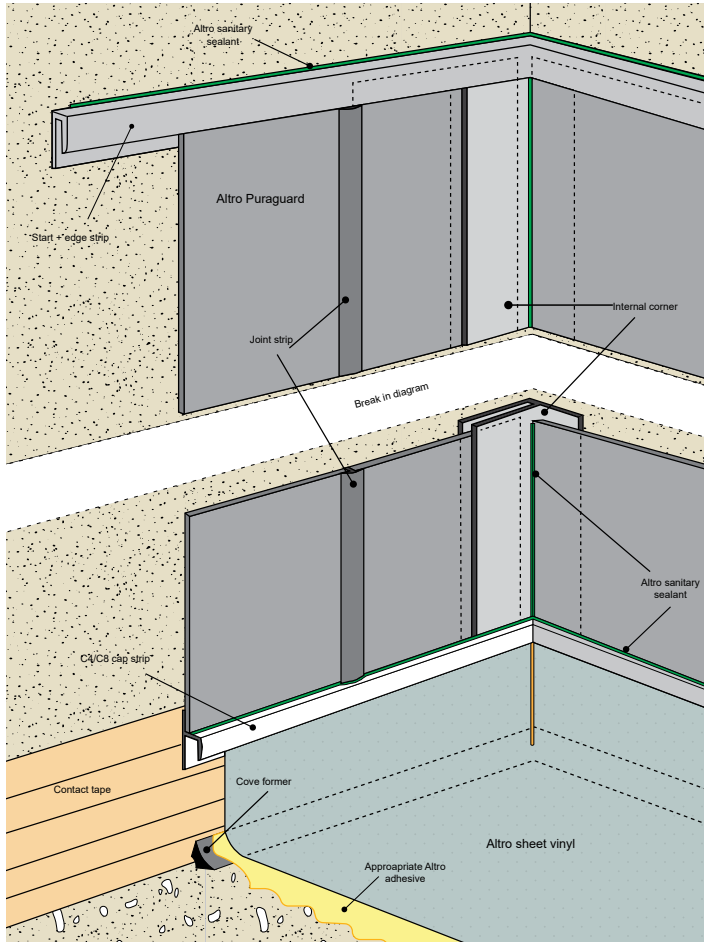
Commercial kitchens are prone to have many pipes and electrical conduit coming through the flooring in order to service the equipment. These type penetrations must be detailed in order to prevent water ingress. Single pipes can have a PVC pipe sleeve installed around the pipe and sealed to the Altro flooring with PVC cement. When there are groups of pipes/conduit together they can be boxed or concrete curb made in order to flash cove the flooring. Please refer to the Altro flooring installation guide for more information on detailing around pipes and conduit.



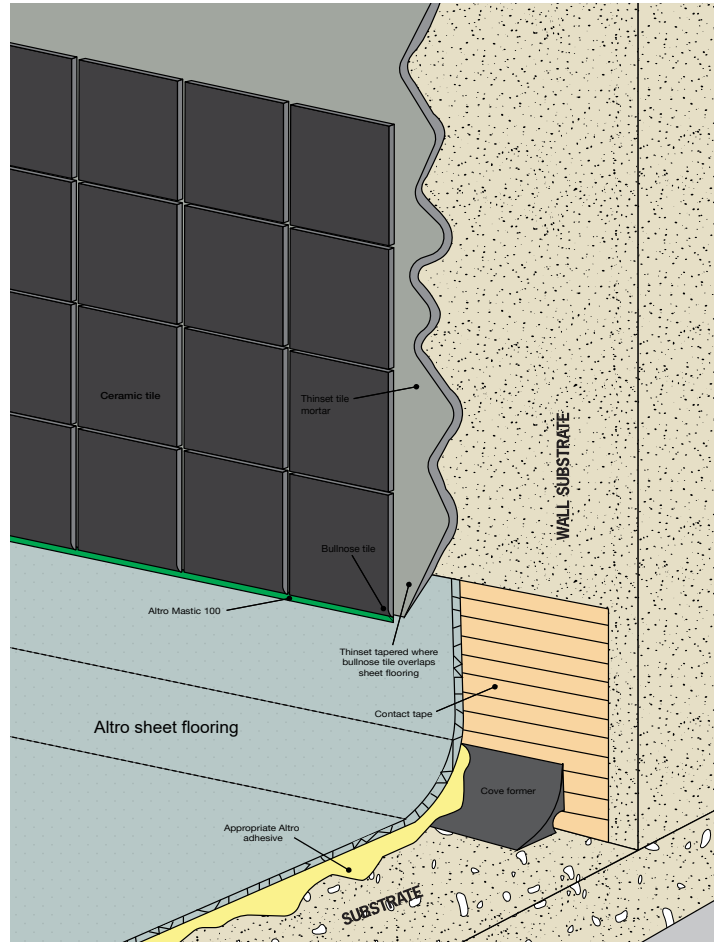
Floor to wall transitions

The preferred method of installing Altro flooring with Altro Whiterock and other wall finishes is the overlap method. With Altro Puraguard the C4 "h" style cap is used to prevent water ingress.

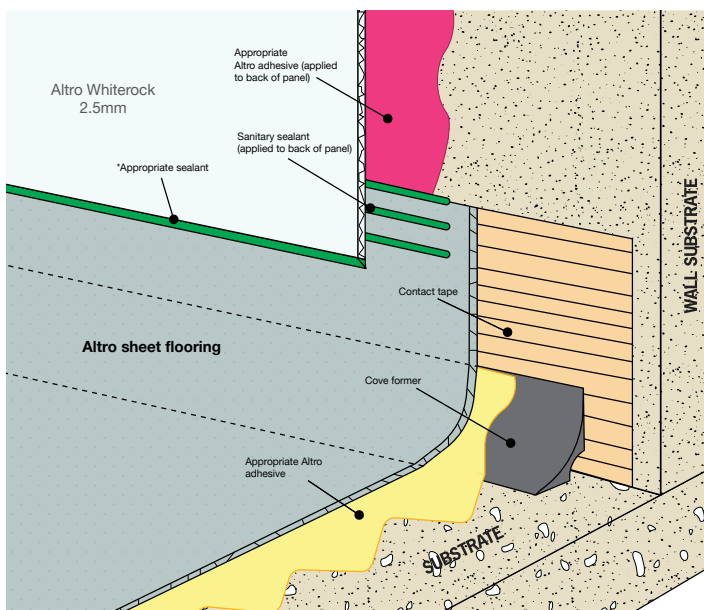
Altro Puraguard internal corner detail diagram



Wall tile overlap detail diagram



Floor to wall overlap detail diagram



Freezers, coolers + excessive heat

Freezers + coolers

Altro flooring may be installed in new or existing freezers and coolers following procedures as outlined below.

- Minimum operating temperatures should not drop below -22°F (-30°C) for Altro Stronghold 30 and -4°F (-20°C) for other Altro flooring.
- Existing freezers and coolers must be shut down and brought up to proper installation temperature and conditions for installations.
- The freezer/cooler subfloor may then be washed, rinsed, and allowed to dry.
- In order to flash cove Altro flooring in freezers/coolers, the freezer/cooler must be completely defrosted. Follow normal temperature recommendations and flash coving procedures as outlined in our Installation Practices and Detailing Guide.
- It is recommended to adhere directly to the substrates.

Everlay

- In some instances the extensive shutdown period associated with a conventional flooring installation can be minimized when using Altro Everlay.
- In a heated area, 65°F (18°C) to 80°F (26°C), outside the freezer/cooler, lay out the Altro Everlay and Altro flooring following seam layout and adhesive recommendations. Cut materials slightly over the required size. If flash coving, do not run Everlay up walls. This will interfere with adhesion to walls.
- In this separate heated area, glue the Altro flooring to the Everlay and allow adhesive to cure 48 hours.
- After the Altrofix 30/31 adhesive has cured, the seams may be heat welded and the flooring assembly trimmed to fit the installation area, unless flash coving. Do not allow Everlay to flash up the wall. Allow for a 1/8" (approximately 3mm) gap between the walls and the edge of the flooring to accommodate the AltroMastic 100 sealant.
- Lay the new flooring in place allowing it to extend under the door threshold.
- Tighten down the threshold and seal the entire perimeter with AltroMastic 100 sealant.
- After applying AltroMastic 100, install rubber base or other suitable wall trim to perimeter.
- Allow 30 minutes for the AltroMastic 100 to skin over before restarting the freezer/cooler.
- The freezer/cooler may then be put back into service.

Note: Sectional steel panels must be stable. If not, this type of subfloor should be installed with Altro Everlay.

Only specific grades of Altro floor covering are recommended for "cold" areas. Consult your Altro distributor for recommendations.

Excessive heat

In most cases Altro flooring can be installed under ovens, stoves, broilers, steamers and grills provided that the kitchen equipment incorporates flame guards to limit excessive heat exposure (over 140F/60C) to the floor surface.

- Altro flooring is rated up to 140F/60C degrees. This is for 'dry' heat from an open flame or expelled from an appliance.
- Hot water exceeding 140F/60C can on occasionally come into contact with the flooring without causing damage. Repeated or concentrated draining of steam kettles will lead to damage.
- Pots taken directly from a flame or oven racks should be given a few minutes to cool before being set on the floor.

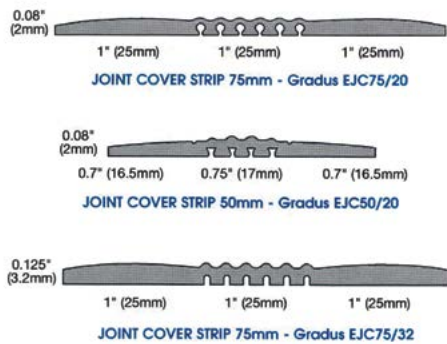
Kitchen appliance heat

Use an infrared thermometer to take a reading of the floor underneath the appliance after it has been in use for a while. If it exceeds 140°F/60°C, do the following:

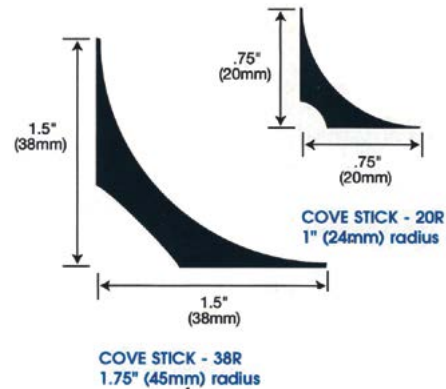
- Kitchen staff or appropriate person(s) check that baffles/flame guards are intact. Consult appliance manufacturer that the equipment is suitable for use on resilient flooring.
- Have the appliance manufacturer determine that the appliance is within factory tolerance regarding heat loss. If it is not have the appliance manufacturer make the necessary repairs.
- Obtain a heat deflector plate available from Altro.

System accessories

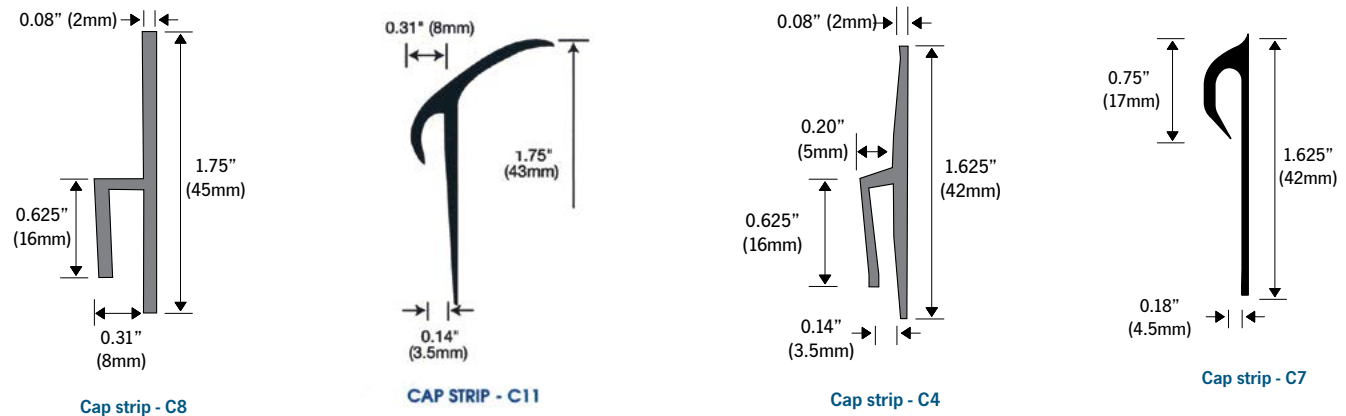
Expansion joints



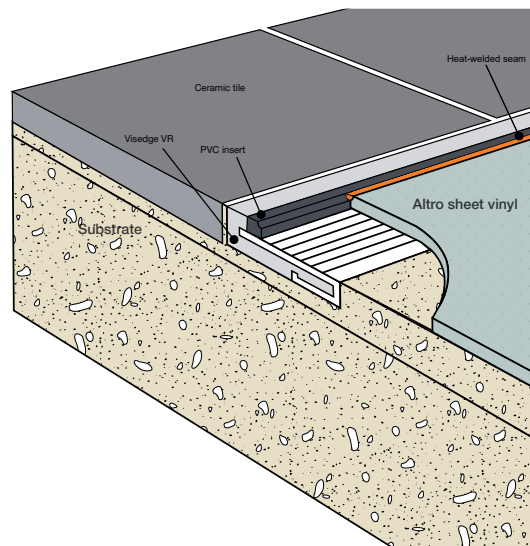
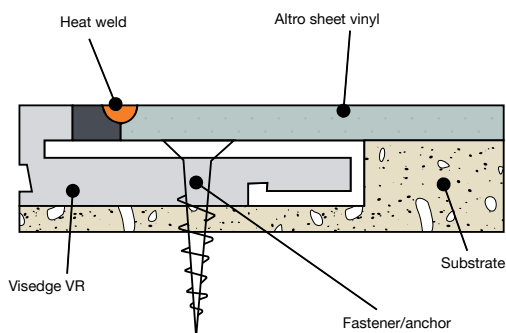
Cove former (cove sticks)



Cap strips

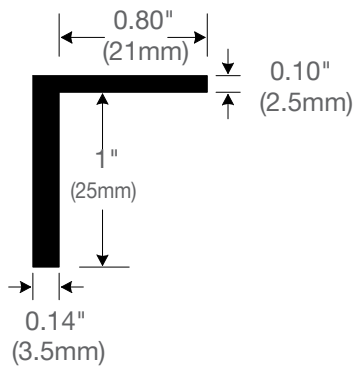


Visedge VR

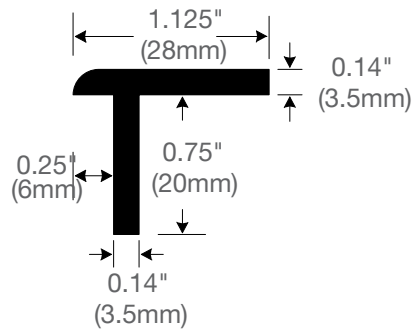


See section 5.2 of the [Altro flooring installation guide](#) for more information on installing the visedge VR.

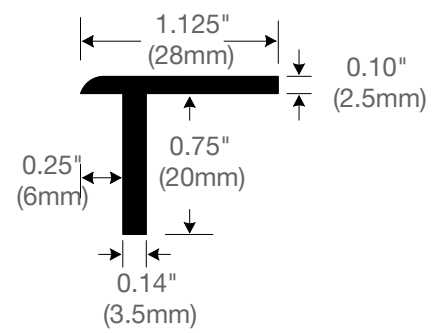
Gulley edge and gulley angle



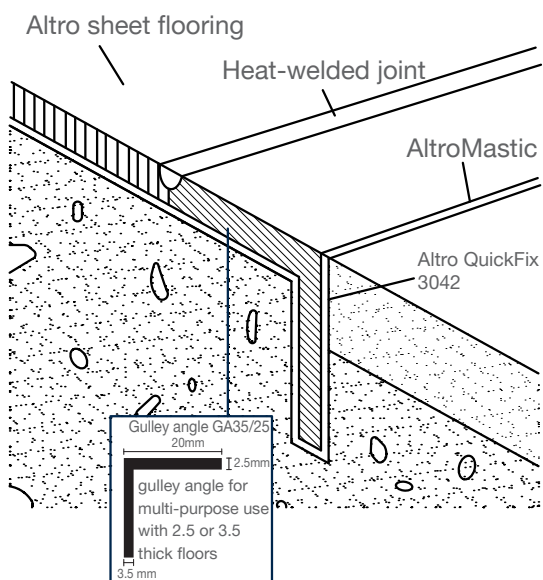
Altro gulley angle - GA35/25



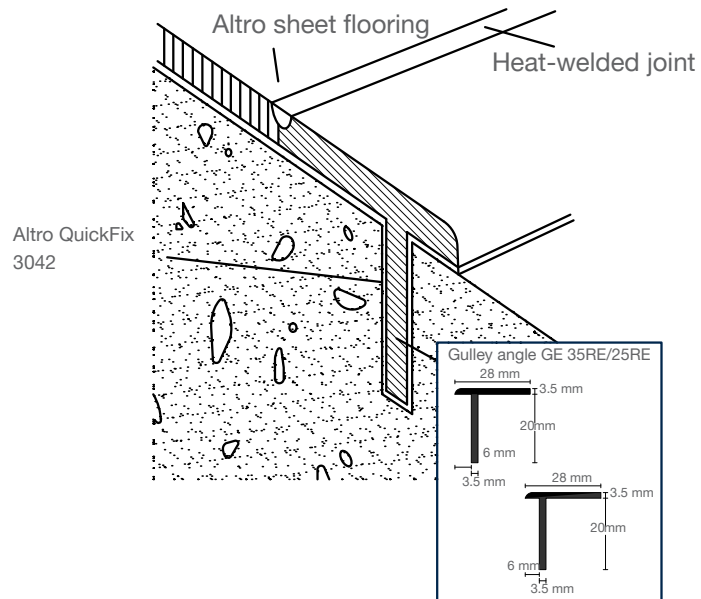
Altro gulley edge - GE 35RE



Altro gulley edge - GE 25RE



Altro gulley angle - GA35/25



Altro gulley edge (GE25/RE) 2 - 3mm floors

Altro gulley edge (GE 35RE) 4mm floors