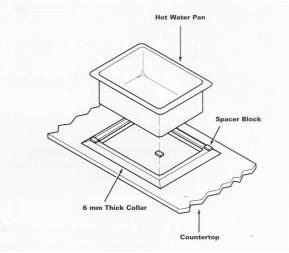
Food service countertops are exposed to much greater temperature stress than residential countertops. Use the following procedures, to prevent countertop cracking, warp and seam separation.

21.1. PREVENTING CRACKED CUT-OUTS

Preventing cracked cut-outs from heating or cooling appliances

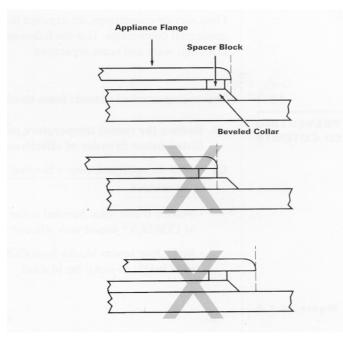
- 1. Reduce the cut-out temperature using technique 1.1, 1.2 or 1.3 (Listed below in order of effectiveness).
 - 1.1. Install the appliance over a bevelled collar and four spacer block of DuPont[™] Corian[®].
 - Make a 6 mm thick bevelled collar from one routed sheet or four strips of DuPont™ Corian[®] joined with silicone adhesive or Joint Adhesive.
 - Make four spacer blocks from DuPont[™] Corian[®] (see the table below to determine what . height to make the blocks).



Spacer Block Height	Cabinet	Countertop Temperature (°C) Reduction
3 mm	With fan	36
13 mm	With rear wall or with bottom vents	30
3 mm	With rear wall or with bottom vents	20



Food and Service Countertop



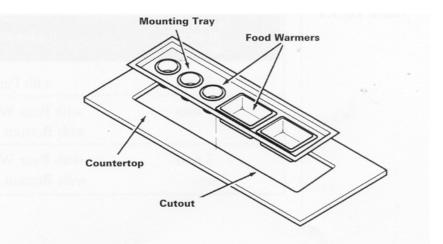
- Attach the collar to the countertop with silicone adhesive or Joint Adhesive.
- Attach the spacer blocks to the corners of the collar with silicone or Joint Adhesive.

Helpful Hints:

To prevent spillage from entering the cabinet and to facilitate countertop cleaning, make sure the appliance flange edge hangs over the bevelled portion of the collar.

1.2. Install the appliance inside a stainless steel mounting tray

This technique reduces the countertop temperature by 22° C.

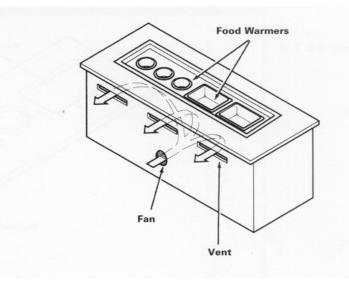




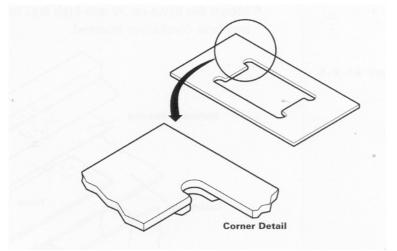
Install a fan and vents in the cabinet 1.3.

This technique reduces the countertop temperature as 19° C.

- Install a fan near the bottom of the rear cabinet wall so that it blows air into the cabinet.
- Make vents in the top of the front and back cabinet walls.



2. Improve the cut-out strength by the high-strength cut-out method Fabricate a high-strength cut-out, following the procedure described in section 8.2.1.



Helpful Hints:

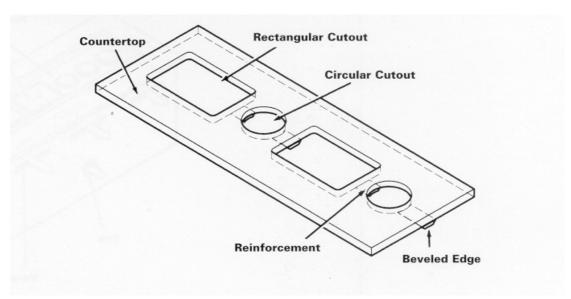
If you are using a collar to reduce cut-out temperature, consider it as an extension of the appliance's flange when choosing the paper pattern.



Helpful Hints:

For circular cut-outs:

Using Joint Adhesive, glue reinforcement strips of DuPont[™] Corian[®] to the underside of the countertop between the cut-outs and between circular cut-outs and countertop edges.



3. Bain-Marie Instructions

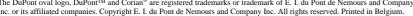
If a Bain-Marie is installed in a DuPont[™] Corian[®] countertop, the Bain-Marie should be supported so that there is no flexing within the countertop. A stainless steel hob collar should be inserted next to the lip of the Bain-Marie to eliminate the possibility of cracks appearing in the countertop.

21.2. PREVENTING COUNTERTOP CRACKING AND WARP

Prevent countertop cracking and warp from heat lamps and portable heating appliances using the following techniques.

- 1. Place a trivet on the countertop under the appliance and the heat lamp.
 - Make the trivet from 19 mm DuPont[™] Corian[®].

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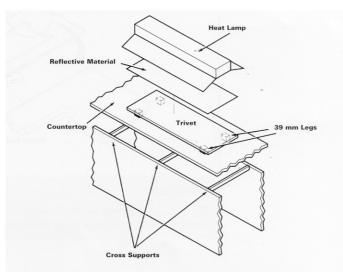




corian.

Food and Service Countertop

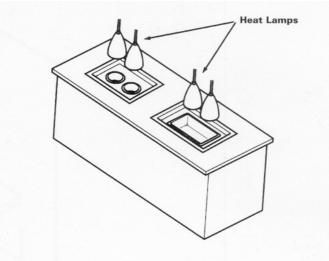
Mount the trivet on 39 mm high legs made of DuPont[™] Corian[®] or any other non-heat conductive material.



Helpful Hints:

As an option to further reduce countertop temperature, put reflective material, such as aluminium tape or high-gloss thin sheet metal, on top of the trivet.

- 2. Add cross supports to the top of the cabinet frame at 761 mm intervals or keep the countertop temperature below 65° C.
- 3. Lock heat lamps in position above the food pans so that they heat the food, not the countertop.

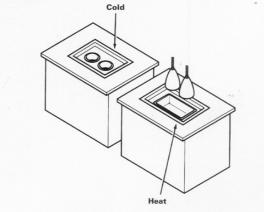




21.3. PREVENTING SEAM SEPARATION

Preventing seam separation from heat lamps or cooling appliances installed in the same countertop.

- 1. Choose technique 1.1, 1.2 or 1.3 to prevent seam separation
 - Make separate countertops for hot and cold food and avoid placing seams under heat 1.1. lamps



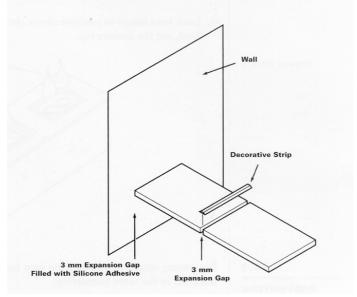
1.2. Join the sheets with expansion-type seams.

For heat lamps:

Fill the seams with flexible material or cover them with decorative strips made of DuPont™ Corian[®] or stainless steel.

For heating and cooling appliances:

Follow the procedure above, positioning the seams between the hot and cold sections.

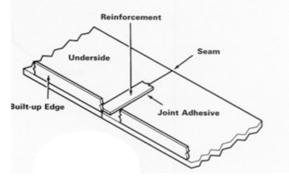




Food and Service Countertop

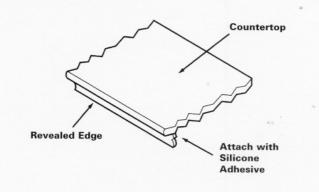
Reinforce the seams. 1.3

- Make reinforcing strips from DuPont[™] Corian[®], as described in Section 11.3.
- Attach the strips with Joint Adhesive, using enough adhesive to prevent any voids or dry spots.



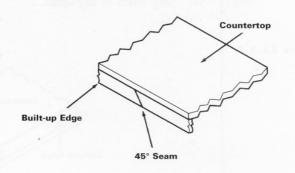
- 2. Fabricate a downturn edge, choosing method 2.1 or 2.2.
 - 2.1 Make a revealed-type edge whenever possible.

Attach the edge to the underside of the countertop with silicone adhesive.



Join all edge sections with a 45° bevelled seam. 2.2

Attach the downturn edge to the countertop with Joint Adhesive.

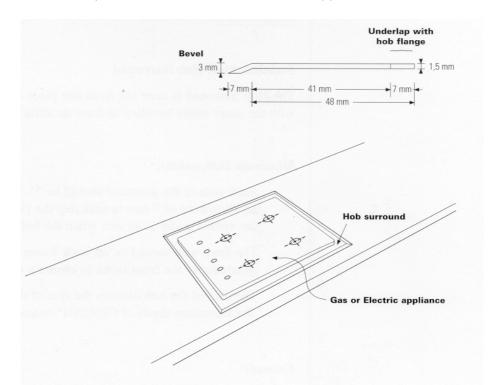


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INSTALLING STAINLESS STEEL HOB SURROUND 21.4.

By using a specially designed stainless steel perimeter hob surround, the cooking appliance can be installed in a manner which will provide more space and provide greatly improved insulation from the appliance into DuPont[™] Corian[®].

The hob surround should be designed with the following dimensions and thickness - the overall size will be determined by the dimensions of the electrical appliance to be installed.



The hob surround enables the existing cut-out to be enlarged as the wider flange of the surround allows more working space.

> **Stainless Steel Hob Surround** 55 mm overall 48 mm 7 mm Putty Appliance CORIAN The Stainless Steel Hob Surround underlaps the appliance flange by 7 mm. 3M The CORIAN® cutout can be enlarged reflective to coincide with the inner edge of Tape the Stainless Steel Hob Surround as illustrated.

The below figure shows a cross section of the hob surround when installed.



Food and Service Countertop

Tests have shown that using a stainless steel hob surround has the desired effect of minimising heat input into the area around a DuPont[™] Corian[®] cut-out, thus greatly reducing the likelihood of any further problems occurring.

This technique is also recommended for industrial cooking areas or when extensive cooking takes place.

AVAILABILITY

Stainless Steel Hob Surround

The Hob Surround is laser cut from one piece of brushed 18/10 stainless steel with the outer edges bevelled to form an attractive design detail.

Minimum Dimensions:

Each web of the surround should be 55 mm minimum which includes an allowance of 7 mm to under lap the flange of the hob. This means the visible width is 48 mm when the hob is installed. The front web should be set back 2 mm minimum from the start of the moulding of the front facia, to ensure a neat appearance.

The size of the hob dictates the size of the surround and also influences the minimum depth of DuPont[™] Corian[®] countertop.

Example:

Overall hob size Overlap hob surround Hob surround cut-out	Width 560 -14 546	× _	Depth 490 -14 476	7mm all round (internal dimensions)
Minimum web size _ Overall surround size	+110 656	_	+110586	(55mm all round) (external dimensions)
Overlap surround DuPont™ Corian [®]	-14 642		-14 572	7mm all round

To calculate Countertop Minimum Depth:

Surround Depth Add 12 mm for facia mould + 2 mm tolerance	=	586 +14	
Minimum DuPont™ Corian [®] countertop depth		600	for 560 x 490 hob, when the rear edge of the surround lines up with the back of the countertop

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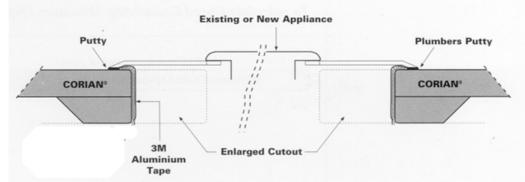
To calculate Coved Countertop Minimum Depth:

Add 10 mm for radius cove	600 +10	
Minimum DuPont™ Corian [®] countertop depth	610	for 560 x 490 hob

STEPS TO COMPLETION

You will need:

- 3M[™] Aluminium Reflective Tape
- Plumbers mate
- Acrylic Artists Paint => kneed together to obtain an acceptable colour match DuPont[™] Corian[®]
- Silicone Sealant
- 1. Check that the Hob flange overlaps the Hob Surround by 7 mm all round and that the cut-outs in the surround and countertop, are correct.
- 2. Mark the location of the external edges of the surround onto the DuPont[™] Corian[®] countertop.
- 3. Fix insulation strips around the DuPont[™] Corian[®] cut-out in the normal way so that the outer edges coincide with the surround location marks. Fix 3M Scotch[™] Brand aluminium reflective tape over this.
- 4. Kneed a bed of plumbers mate into this 6 mm space slightly overlapping the surround location marks and bed the surround onto it with even pressure all round. Trim off the excess.
- 5. Fix the hob in place in the normal way. Apply dabs of Silicone to the corners of the hob flange to fix it to the surround.



(This technique can be used for repeat hob cut-out cracking situations and give an aesthetically pleasing and lasting solution.)

When a hob installation has failed for a second time after a replacement or a repair has been undertaken, it may be better to take the hob surround option to provide a lasting solution to the situation.

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