

# Processing instructions

## EGGER Worktops



Due to their functionality EGGER worktops are used in kitchens, bathrooms and offices, but also for shopfitting solutions and domestic furniture. Whatever they encounter on a daily basis, the surfaces will retain their high performance characteristics providing that you follow our recommendations on processing and assembly very closely. The following instructions are for a kitchen work surface.

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## 1. Description of the material

The EGGER Worktops Collection is diverse and includes other models and options in addition to the classic postforming worktop.

Postforming worktop – Model 300/3



- 1** Laminate
- 2** Eurospan chipboard, 38 mm
- 3** High density protective layer
- 4** Balancer
- 5** UV lacquer seal
- 6** Seal

## MORE FROM WOOD.

Quality management ISO 9001



Coding: PI WT EN  
Revision: 10  
Approved: 30.10.2020  
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Feelwood worktop with edging – Model 100/1.5



- 1 Laminate XL – Feelwood
- 2 Eurospan chipboard, 38 mm
- 3 ABS-edging, 1.5 mm
- 4 Laminate balancer

PerfectSense Topmatt worktop with edging – Model 100/1.5



- 1 Laminate PerfectSense Topmatt
- 2 MDF, 16 mm
- 3 ABS-edging, 1.5 mm
- 4 Laminate balancer

Square Edged Worktop – Model 100/1.5



- 1 Laminate
- 2 Eurospan chipboard, 25 mm
- 3 ABS-edging, 1.5 mm
- 4 Laminate balancer

**Thin Square Edged Worktop – Model 100/1.5**

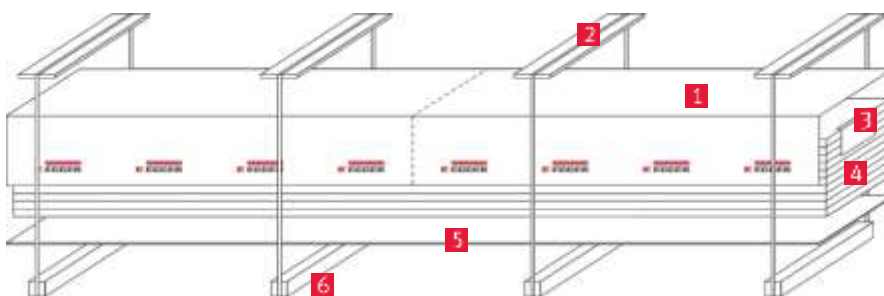


- 1 Laminate
- 2 MDF, 16 mm
- 3 ABS-edging, 1.5 mm
- 4 Laminate

## 2. Transport, storage and handling

### 2.1 Transport

The worktops are usually packaged and transported as shown - see figure1. The packages must be transported dry and must not be exposed to the weather. In addition, the load must be secured against slipping and falling over in the case of transport by using suitable securing means (lashing straps, tensioning straps, etc.). Anti-slip mats should be used to prevent the load from slipping. When manually transporting long worktops, especially “Thin Square Edged Worktop” and “PerfectSense Topmatt Thin Square Edged Worktop”, these must be carried on edge to prevent bending.



- 1 Carton
- 2 Plastic tape
- 3 Pallet label
- 4 Worktops
- 5 Cover board
- 6 Underlays

Figure 1

The worktops must be unpacked after delivery and stored in accordance with chapter 2.2. This is the only way to ensure optimum conditions for further processing of the worktops.

### 2.2 Storage and conditioning

Worktops must be stored in closed and dry rooms, to protect them from moisture. In addition, normal climatic conditions should be present in the rooms.

Once the original packaging is removed, the worktop must be stored on full-surface, horizontal, straight, stable protective boards. Direct floor contact and/or exposure to sunlight must be avoided at all times. A laminated protective board (no raw chipboard) of at least the same format must be used to cover the top.

Prior to assembly, worktops should be conditioned for an adequate period of time at the installation location under the conditions of subsequent use. Compliance with the storage recommendations is required on construction sites as well.

## 2.3 Handling

After removing the packaging and prior to processing, the worktops should be inspected for visible damage. In view of the relatively heavy weight, special care is required when transporting and handling worktops. As a rule, all persons transporting and / or handling worktops should wear personal safety equipment such as gloves, safety footwear and suitable work wear. The boards must be lifted. The decor sides should never be pushed against one another or dragged over one another.

## 3. Processing

As described in chapter 2.2, ensure that the worktops are adequately conditioned before processing. The worktops must be conditioned for at least 24 hours under normal climatic conditions before processing.

### 3.1 Health risk due to dust formation

Dust may be generated during processing. There is a risk of sensitization of the skin and respiratory tract. Depending on the processing and the particle size, especially when inhaling dust, there may be further health risks.

The formation of dust must be taken into account when assessing risks in the workplace.

In particular in the case of machining processes (e.g. sawing, planing, milling), an effective extraction system must be used in accordance with the applicable health and safety regulations. If there is no adequate suction, suitable respiratory protection must be worn.

### 3.2 Fire and explosion hazard

Dust generated during processing can lead to fire and explosion hazards. Safety and fire protection regulations must be observed.

### 3.3 Cutting

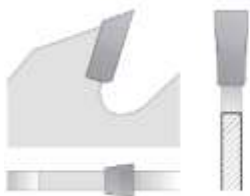
The worktops can be cut to size using standard woodworking equipment, e.g. panel saws, bench circular saws, hand-held circular saws or jigsaws and also CNC routers. Panel saws or bench circular saws are generally used to cut the worktops to size. A good cutting result depends on different factors including whether the decor side is facing upwards, saw blade projection, feed rate, tooth shape, tooth spacing, motor speed and cutting speed.

#### Example – Circular saw:

Cutting speed: approx. 40 to 60 m/sec.  
 Rotational speed: approx. 3,000 to 4,000 rpm.  
 Feed rate: approx. 10 to 20 m/min (manual feed)

With the exception of panel saws and CNC routers, all cutting involves manual feed. Due to the high-quality melamine resins used for the surface of the EGGER laminate, the tool wear is considerably greater than with conventional wood-based materials. We recommend that you use carbide metal-tipped or even diamond-tipped saws cutters or router bits.

Use the following tooth shapes depending on the standard of finish you require (coarse or fine cut) – see figure 2.



Flat tooth



Duplovit tooth with hollow tooth face



Pointed duplovit tooth



Figure 2

Use a cutting guide when working with a hand-held circular saw or jigsaw. Cutting must be from the underside of the board.

Saw type	Decor side	Application
<p><b>Panel or bench circular saws</b></p> <p>The worktop lies on the guide carriage and is guided towards the bench circular saw.</p> <p>Front edge towards the guide rail.</p>	above	
<p><b>Hand-held circular saws or jigsaws</b></p> <p>The hand-held circular saw is guided against the worktop.</p> <p>Front edge towards the operator.</p>	underside	

### 3.4 Edges and edging

The exposed edges of the EGGER worktop can be edged with thermoplastic EGGER ABS edge banding or EGGER melamine edging tape. For the manual application of melamine edging, normally PVAc glues or contact adhesives are used. The PVAc glue is evenly applied to the clean and dust-free chipboard edge using a paint brush. Then the melamine edging is pressed on with an edge press, glue press clamp or screw clamp using a stiff block of wood for protection and ensuring that there is sufficient overhang of edging on both the face and the underside of the worktop. The setting time can be substantially decreased by using heating bars.

Please follow the instructions provided by the machine manufacturer and adhesive supplier.

Edge milling cutters, files, chisels or sharp block planes are used for the finishing of melamine edging. The cutting should always be with light pressure at an oblique angle against the edge (shear action). EGGER melamine and ABS edges are used for the protection and design of worktops. Exposure to moisture in unprotected areas of the edges and well as in the hob and sink cut outs will lead to swelling. This is also the case with worktops which have a P3 (V100) chipboard core, which is often misleadingly described as 'moisture resistant'.

For more detailed information please refer to the "EGGER Edging ABS" processing information.

### 3.5 Cut-outs

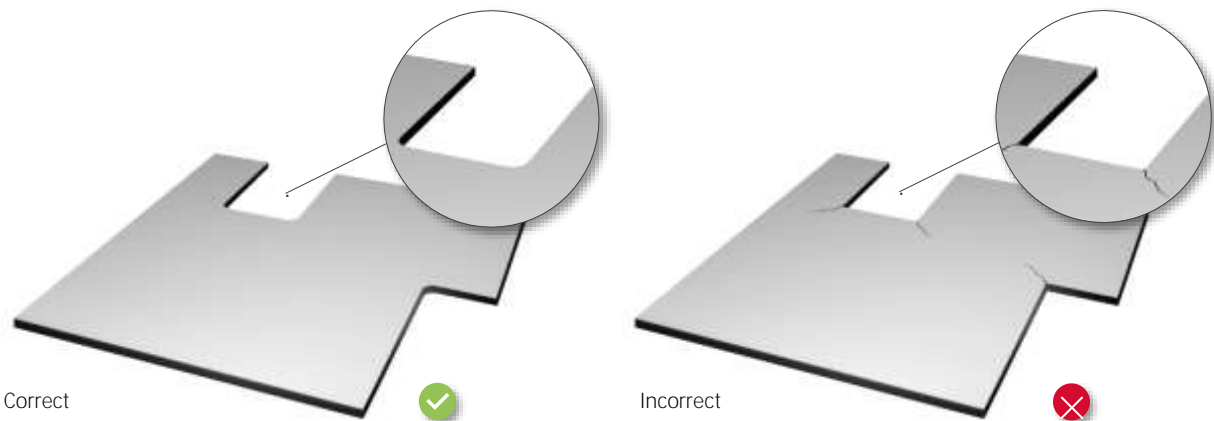
Before processing, ensure that the worktop is supported securely so that the sawing, routing or drilling work is not likely to cause any damage. In particular, narrow board areas surrounding apertures can break or crack if the board is inappropriately handled during processing. The board cut-outs should also be secured so that they cannot break or fall out in an uncontrolled way and thereby cause injury to individuals or damage property.

Oven and sink cut-out edges should be radiused (minimum radius > 5 mm) as sharp edges have an adverse effect on the material and can lead to crack formation – see figures 3 and 4. This applies particularly to the hob area where the frequent exposure to heat causes the laminate to dry out, thereby increasing shrinkage tension.

**Please specifically observe the instructions and installation templates supplied by the respective manufacturer!**

The cut-outs should preferably be made using a portable hand router or CNC milling machine. When using jigsaws, the cut-out corners should be pre-drilled with an appropriate radius and the cut-out sawn out from radius to radius. You should cut from the underside of the board to prevent the laminate coating from ripping off. The edges should be finished by means of sandpaper, filing or manual top milling to eliminate cracks due to chipping.

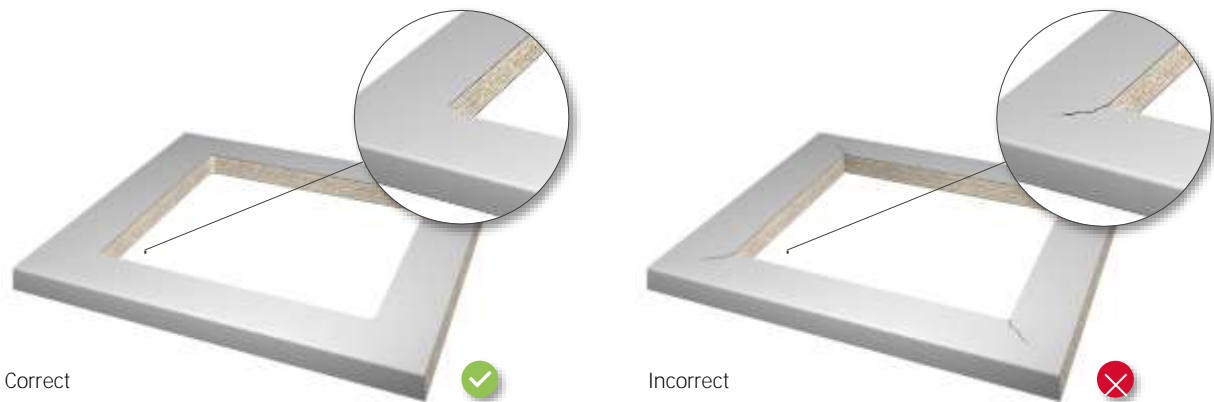
Due to the high cutting pressure, a safe workpiece and tool control is particularly important. All edges should be smooth, free of cracks and notches – see figure 3 and 4. Grooves and folds must also be be chamfered to prevent notches. For installed components, sufficient space must be provided for expansion.



Correct

Incorrect

Figure 3



Correct

Incorrect

Figure 4



### 3.6 Sealing edges, cut-outs and drilled holes

EGGER worktops are effectively protected from moisture penetration by the laminate surface. Moisture and damp can still reach the substrate, however, via unprotected edges such as cut-outs, corner joints, miters, long back edges, drill holes, screw holes and fixtures. This means that the necessary sealing work must be carried out in the final installation. The best products for sealing worktops have been found to be sealing profiles and self-curing sealants such as silicon rubber, polyurethane and acrylic.

When using sealants, you must also use a primer; either one that forms a film or a cleaning primer depending on the material.

**You must follow the manufacturer's instructions carefully when using these materials.**

It is absolutely essential that you clean the areas you are sealing and to allow the manufacturer's specified venting time when using primer. Apply the sealant leaving no gaps or holes and then smooth over with water and detergent. Mask off areas near joints to prevent the surface from becoming dirty. Any pipes or leads that are to be brought up through the worktop should be centered with a minimum distance of 2 to 3 mm on either side and carefully sealed – see figure 5.

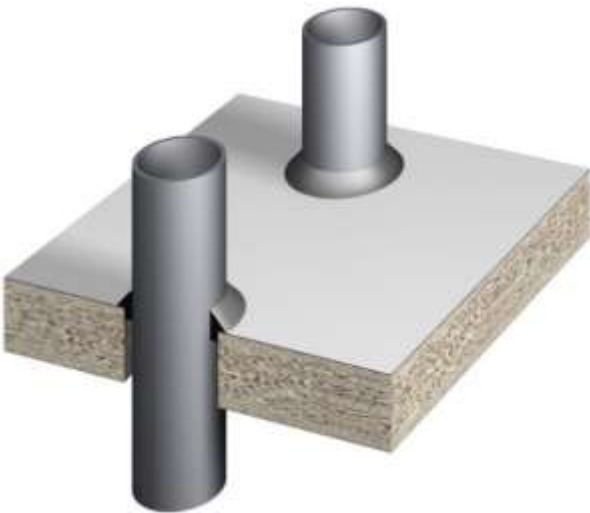


Figure 5

Cut edges can also be sealed using a two-part lacquer or two-part adhesive. Manufacturers supply sealing rings, profiles or collars with attachments such as mixer taps, sinks and hobs. Always follow the manufacturer's instructions when fitting these items.

The specially developed EGGER sealing is available for sealing joints that are created for worktop corner connections. The flexible seal prevents moisture and liquids from penetrating into the joint. Detailed information on EGGER Sealing can be found in chapter 4.2.

## 4. Fabrication and assembly

Worktops have good dimensional stability. Climate changes cause the worktop to shrink or expand, which means that format changes must be taken into account.

### 4.1 Installation of sinks and hobs

Cut-outs for hobs or sinks must be produced according to the measurements and positioning details and/or using templates supplied by the manufacturer. The cut-out edges must be carefully protected against moisture according to topic "Sealing edges, cut-outs and drilled holes". Accompanying or integrated dry seals and fastening screws provided by the manufacturer must be used according to their assembly instructions – see figure 6.



Dry seal

Figure 6



Aluminum foil

Figure 7

For any type of hob - stainless steel, glass ceramics - the cut-outs should in all cases be made according to the instructions and installation templates supplied by the manufacturer. Ensure correct centring and an adequate safety margin to the cut edge, particularly for hobs. As additional protection against heat absorption we recommend also fitting self-adhesive aluminium tape or a metal profile around the edges - see figure 7. The hob must not abut against the surface for safety reasons, as a temperature increase of up to 150 K is possible in the event of faulty operation. Further assembly options are the surface-flush mounting - see figures 8 and 9. For this purpose, the core board is milled up to the laminate and then a resin frame is cast below the laminate



Figure 8



Figure 9

As commercial sinks are generally mounted on worktops approx. 38 mm thick, a special solution is required for the thin worktop options "Thin Square Edged worktop" and "PerfectSense Topmatt Thin Square Edged Worktop ". The EGGER fastening set is offered for this purpose, which ensures simple installation – see figure 10 and figure 11.

For more detailed information, please refer to the technical leaflet "EGGER fastening set for sinks".

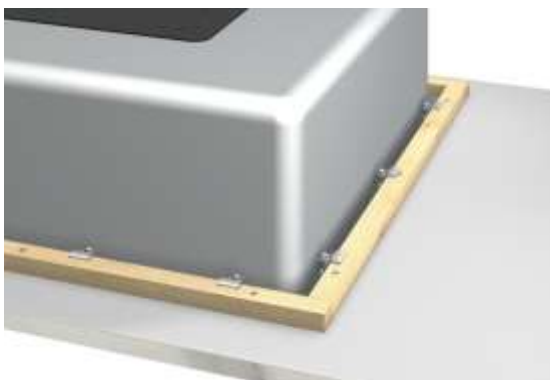


Figure 10



Figure 11

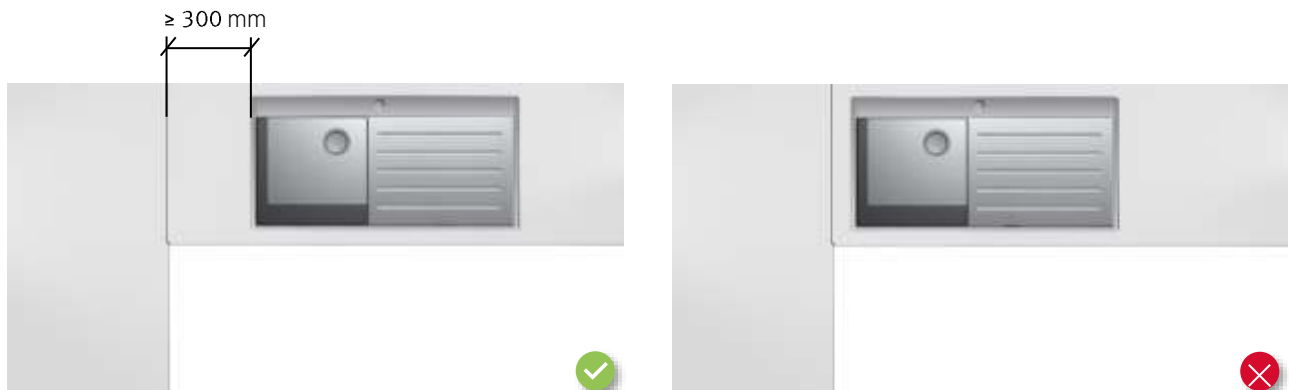


The worktop should not measure less than 50 mm at any one place. For ergonomic reasons, the distance between the hob area and an upright cupboard should not be less than 300 mm. Allow for the hob manufacturer's specified safety margin. The same distance is recommended for the gap between the sink and the hob – see figure 12.



Figure 12

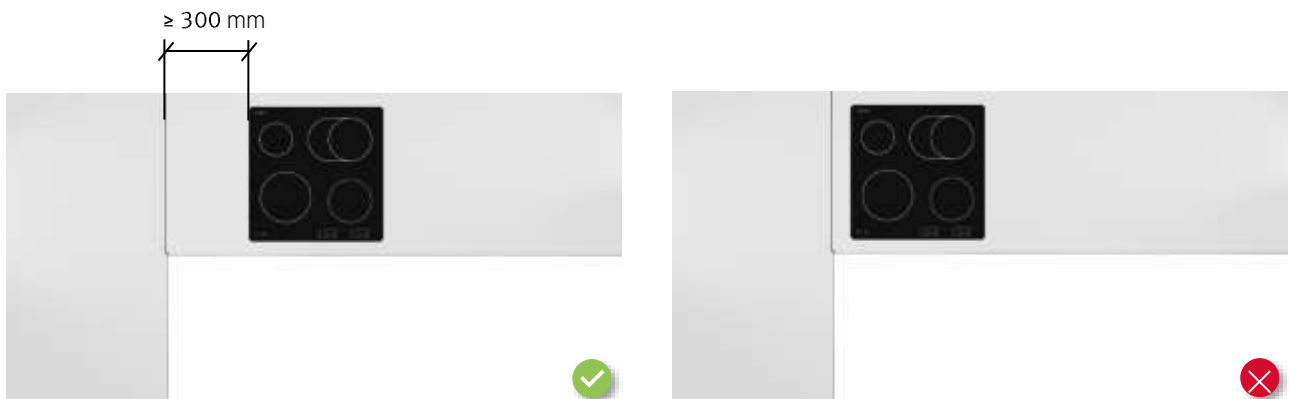
For safety reasons as much as for ergonomic reasons, kitchen designs should be discussed with a kitchen specialist and fitting carried out by a specialist company. Particularly electricity, gas and water supply connections must be carried out by trained specialists. In the region of corner connections, a minimum distance of 300 mm must be taken into account during planning – see figures 12-14.



Correct

Incorrect

Figure 13



Correct

Incorrect

Figure 14

Once the cut-out sections have been implemented in the worktops, any further transportation must be carried out while observing the **utmost caution as to prevent “snapping at thin points”**. Worktops should be carried upright because cut-outs and worktop can be damaged more easily if the boards are carried horizontally.

A standard construction can generally be used for conventional base units. In the construction of sink and/or cooker base units, the assembly of metal traverses has proven to be successful. The worktop is secured against possible bending by the metal traverse, as the worktops are weakened due to sink and/or hob cut-outs and the contact surface on the base units is minimized. Especially for the thin worktop versions "Compact laminate worktop" and "PerfectSense Topmatt worktop with edge", the use of EGGER metal traverses is recommended – see figure 15. In addition to stabilization, the metal traverses are also used to secure the worktop or covers – see figure 16.



Figure 15



Figure 16

For the assembly of the metal traverses, holes must be drilled in the cabinet sides. The drilling pattern contains two drill holes with  $\varnothing 8$  mm and 7 mm depth. A further hole with  $\varnothing 5$  mm and 13 mm depth must be drilled, provided that the fastening is carried out using a 6.3 x 13 mm Euro screw – see figures 17 and 18.

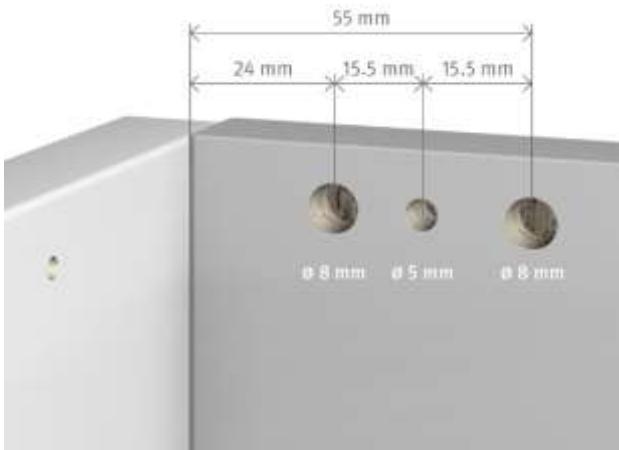


Figure 17



Figure 18

EGGER metal traverses are available for cabinet widths of 600, 800, 900, 1,000 and 1,200 mm, as well as for different cabinet side thicknesses.

For more detailed information, please refer to the technical leaflet "EGGER metal traverse for base cabinets".

## 4.2 Worktop joints and corner joints

In general, a worktop length of 4,100 mm means panel joints are avoided, whereas worktop corner joints are common. These should not be weakened by internal apertures or cut-outs such as for hobs or sinks – see figures 13 and 14. Corner joints on worktops are made by mitering on circular saws or routing using CNC routers and / or using special hand-held routers with the aid of templates – see figures 19 and 20.



Figure 19

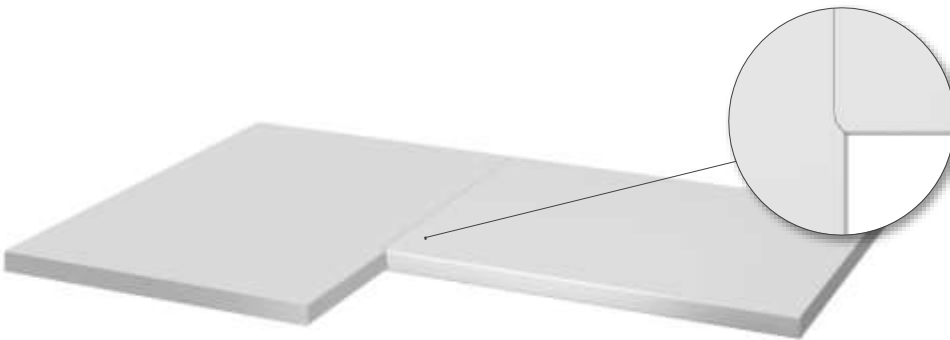


Figure 20

Alternatively, metal connection profiles can be fitted. These profiles are easy to install but can have a negative impact on the overall appearance of the work surface, as it breaks up the decor and can also be difficult to keep clean – see figure 21.

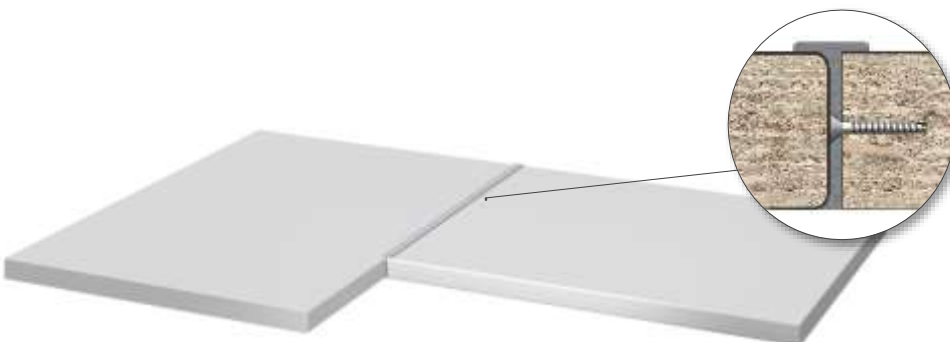


Figure 21

Worktop joints and corner connections need to fit perfectly and be completely sealed, not just for aesthetic reasons. They need to repel any moisture which can cause swelling of the chipboard. For this purpose, EGGERSeal was specially developed for sealing the joints (corner joints) of kitchen worktops. The flexible sealing prevents moisture and liquids from penetrating into the joint. It is resistant to detergents, water, fats, oils etc. and is available in 13 different colors. The content of the 20 g tube provided in each worktop installation kit is enough for an average joint length of 670 mm – see figure 22. EGGERSeal is also available in a 290ml cartridge.

For 16mm worktops machine a butt and scribe joint using the 16 mm pin position on the EGGER jig and then cut three toggle bolt and three Jointing Biscuit slots. For 25mm and 38mm worktops once the joint has been mitred, cut three EasiBolt and three Jointing Biscuit slots. The worktops should be dry fitted first to ensure the joint is acceptable. Flush fitting worktop surfaces are achieved by always measuring the locations of the jointing biscuit slots from the top of the worktop surfaces and by ensuring a tight fit of the biscuits themselves. Once confirmed the final jointing process can begin. Ensure the area to be sealed is dry and free from dust and grease.

The application of the sealing begins with the perforation of the membrane closure of the tube and the following unscrewing of the red application support – see figure 22. Add a bead of EGGERSeal to the edge of the jointing biscuits and position in place on one side of the worktop joint



Figure 22



Figure 23

**600 mm/670 mm Deep Worktops:** Starting from the rear bolt slot and using the applicator to guide, apply a constant bead of EGGERSeal along the underside, up the back edge, along the top edge, down the front edge and along the underside to the rear bolt slot. Ensure all of the edges are sealed and that there is no gaps in the EGGERSeal.

**920 mm Deep Worktops:** Starting from the rear bolt slot and using the applicator to guide, apply a constant bead of EGGERSeal along the underside, up the back edge, along the top edge and round to the front bolt slot only. Ensure all of the edges are sealed and that there is no gaps in the EGGERSeal - see figure 23.

For more detailed information and recommended combinations of the colors for the respective worktop decors, please refer to the technical leaflet "EGGERSeal Colour Match Guide".



- 1 EGGERSeal
- 2 Jointing Biscuits

Figure 24

The individual worktops are attached using worktop connectors as well as jointing biscuits, and additional glue to strengthen the bond – see figures 24. Depending on the type of worktop, different worktop connectors are required. The "PerfectSense Topmatt worktop" and the "Compact laminate worktop" require the use of special worktop connectors due to their low material thickness. EGGER offers corresponding connectors in the worktop installation kits. EasiBolts are supplied in the 25mm and 38mm worktops installation kit and toggle bolts in the 16mm worktops installation kit. – see figures 25 and 26.



Figure 25



Figure 26

### 16mm Worktops

Bring the joint together before tightening the Toggle Bolts using the 3 mm Hex Key supplied. Ensure the worktop is level along the full length of the joint. Tighten the Toggle Bolts fully so that the excess EGGERSeal squeezes out the top of the joint. Remove the excess using the angled scraper side of the applicator.

### 25mm and 38mm Worktops

Place the EasiBolt over the head of the bolt so that it holds the bolt head and washer together and stops the bolt from spinning. Push the EasiBolt into the side of the bolt slot that will be the least accessible once the worktop is in place above the cabinet frame. The EasiBolt will then hold the bolt in place leaving the fitter with both hands free for levelling and tightening.

Bring the joint together and, before tightening the EasiBolts, ensure that the worktop is level along the full length of the joint see figure 27. Tighten the bolts fully so that the excess EGGERSeal squeezes out the top of the joint. Remove the excess using the angled scraper side of the applicator.



Figure 27

Using a lint free cloth, remove any further excess by wiping across the joint at 90° whilst applying moderate pressure. For stubborn residue use solvent cleaner only.

For more detailed information please refer to the technical leaflets "16mm Installation Guide" and "25mm and 38mm Installation Guide" or watch the fitting video at [www.egger.com/worktops-accessories](http://www.egger.com/worktops-accessories).

**The following production steps should be observed:**

1. Remove any raised wood chips near the cut or milled edges with sand paper (grit 120).
2. Bevel the laminate slightly along the joint with a sanding sponge or sandpaper (grit 360).
3. Lay the worktops on the aligned cupboard framework and check the joints and fitting holes for correct fit.
4. Join worktops, insert fittings and tighten screws slightly. Align worktops horizontally (wedge or lever) and vertically (rubber mallet or clamps - protect with cushion blocks). Tighten worktop connectors finger tight after aligning. When tightening, you must check that the two worktop surfaces remain aligned and the sealant emerges on all sides. Do not place any stress on the worktops while the sealant is hardening.
5. An EGGER fitting jig is available separately. This will ensure a discreet joint.

### 4.3 Fastenings and wall connection

Before sealing the long edge of the worktop against a wall, make sure that it is not just adequately supported, but is also joined to the sub-frame. Stresses can otherwise occur that will interfere with the sealing joint. The worktop is usually fixed to the base units with screws using the base unit traverses - see figure 28. This conventional fastening is also possible with thin worktops such as the . However, it must be noted that the contact surface of a thin worktop on the base unit traverses must be adjusted for base units > 600 mm wide to prevent possible bending. For cabinet and worktop stabilisation, EGGER metal traverses have proven themselves, which at the same time allow the worktop to be screwed to the base cabinet see figures 15 and 16.



Figure 28

When fitting, make sure that the worktop is not tilted towards the wall. This will result in water collecting at the joint area. Clean and degrease around the sealing area on both the worktop as well as the wall joint and pre-treat with a bonding agent depending on the sealing used.

Even if using worktop wall profiles or EGGER upstands, you need to seal the long back edge and all transverse edges which abut to a wall with EGGERSeal. When attaching the fixing rails provided with complete wall seal profile systems, ensure that the laminate is predrilled in the screw fastening area. The holes must be at least 1 mm larger than the screw diameter to prevent tension building up in the material – see figures 29 and 30. We also recommend protecting the inside of the screw hole with sealing before fixing the screw.



Figure 29



Figure 30

### 4.4 Structural water-repelling measures

Worktops are particularly subject to steam and heat exposure near dishwashers and ovens. In addition to the lacquer coating and the sealant you should also protect the underside of the worktop by structural means. Self-adhesive aluminum foils generally provide reliable water vapor protection and are easy to handle – see figure 31. Appliance manufacturers supply aluminum repellent strips or protective cover plates, which you must use. This moisture-repellent strip or cover plate deflects and repels steam and heat – see figure 32.

Refer to the manufacturer's instructions carefully before assembling.



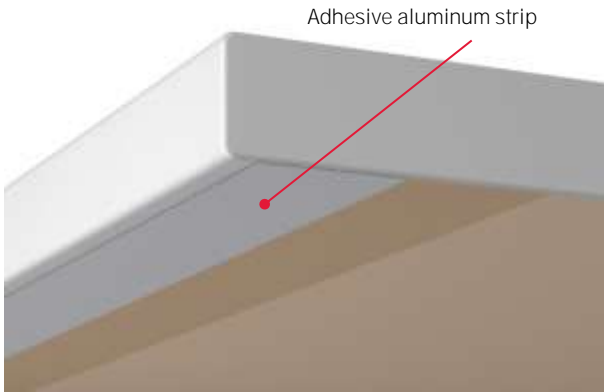


Figure 31

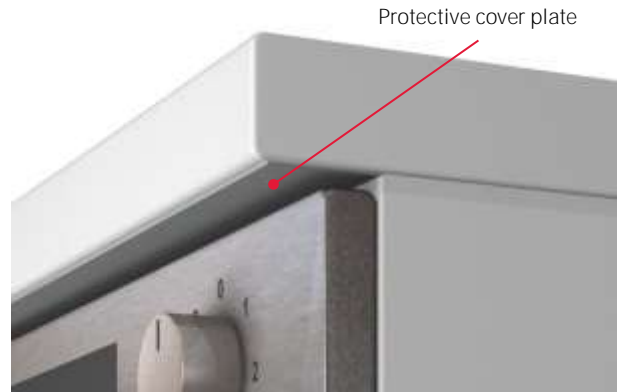


Figure 32

The mounting of the aluminum foil on the underside of the panel differs between models 300 and 100. For the postforming worktop (model 300), the aluminum foil should overlap the laminate infeed by about 2 mm – see figure 33.

For the straight-edge worktop model (model 100), the aluminum foil should be mounted so that it overlaps the ABS edge by about 1 mm – see figure 34.

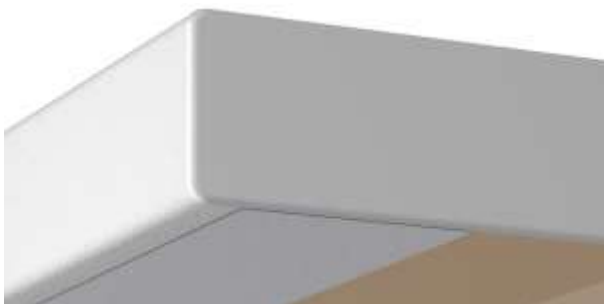


Figure 33

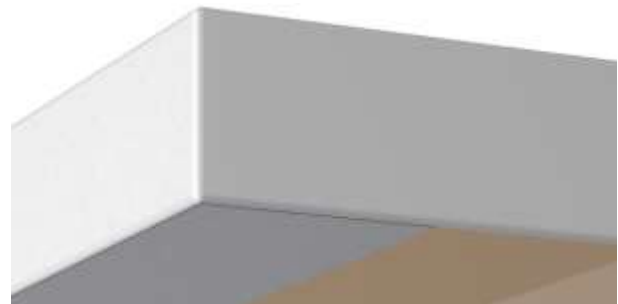


Figure 34

## 5. Maintenance and cleaning recommendations



Placing burning cigarettes on the laminate surface leads to surface damage. Always use an ashtray.



Laminate surfaces should not be used as a cutting surface as this can also leave cutting marks on highly resistant laminate surfaces. Always use a chopping board.



Placing hot cooking utensils such as saucepans and frying pans directly from the hob or oven onto the laminate surface should be avoided, as, depending on the heat exposure, a change in the gloss appearance or damage to the surface can arise. Always use heat resistant mats.



To prevent the worktop from swelling, e.g. in areas of cut-outs and joints, liquids should be wiped up quickly. Do not open dishwashers, washing machines and dryers until they have cooled down.



Spilled liquids should always be cleaned up immediately, especially in the areas around cut-outs and joints as prolonged exposure to some substances may cause a change in the gloss appearance of the laminate surface.

For detailed information, please refer to the leaflet "EGGER Laminate Cleaning and Maintenance instructions".

## 6. Handling of scraps

Due to their high calorific value, the various worktop designs are very suitable for thermal recycling in appropriate firing systems. If the wood residues are collected by a disposal company for further recycling, they may usually contain a small amount of wood-based materials with ABS edges. How high the proportion of ABS and other so-called impurities may be should be agreed with the disposal company. The country-specific laws and regulations on disposal must always be observed.

## 7. Additional documents / Product information

You will find further information in the following documents:

- Technical datasheet “EGGER Postforming worktop”
- Technical datasheet “EGGER Feelwood worktop with edging”
- Technical datasheet “EGGER PerfectSense Topmatt worktop with edging”
- Technical datasheet “EGGER Compact laminate worktop”
- Technical leaflet “EGGER Laminate with the surface texture ST9 – Smoothtouch Matt“
- Technical leaflet “EGGER Laminate Cleaning and Maintenance instructions“
- Technical leaflet “Resistance to chemicals – EGGER Laminate”
- Technical leaflet “EGGER fastening set for sinks”
- Technical leaflet “EGGER worktop connector”
- Technical leaflet “EGGER sealing for corner connections”
- Technical leaflet “EGGER metal traverse for base cabinets”
- Technical leaflet “EGGER Worktop wall profile”
- Processing instruction “EGGER Worktop wall profile”

**Provisional note:**

This processing instruction have been carefully drawn up to the best of our knowledge. The information provided is based on practical experience, in-house testing and reflects our current level of knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or its suitability for specific applications. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical modifications may result from the continuous development of EGGER Worktops, as well as from changes to standards and public law documents. The contents of the processing instruction should therefore not be considered as instructions for use or as legally binding. Our General Terms and Conditions apply.