

No. 432

Sanding tubular radiator elements and similar round profiles



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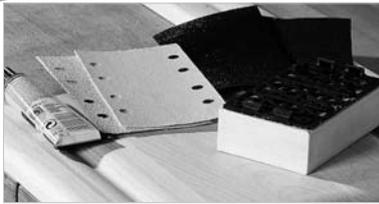
Description

Tubular radiator elements and similar round profiles, such as stair railings and handrails, can be sanded effortlessly and perfectly with the Festool linear sander Duplex LS 130 EQ.

The innovative linear sanding motion of the Duplex corresponds to the manual sanding operation used up to now to sand such profile parts.



432/01



432/02

Solution:

You can make the matching profile sanding pad yourself without any problems with the DIY construction kit Ref. no. 490780 from Festool. The DIY construction kit for creating your own customised profile sanding pad contains the following parts:

- 1 sanding pad blank
- 2 self-gluing fastening sheets (red)
- 2 fastening sheets (black)
- 1 tube of contact adhesive glue
- 1 sandpaper Brilliant P 60
- 1 sandpaper Brilliant P 120

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432/03

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Tools/accessories

Basic equipment:

Denomination	Order no.
Linear sander (Duplex LS 130 EQ) GB 240V	567 811
DIY construction kit STF-LS 130	490 780



432/04

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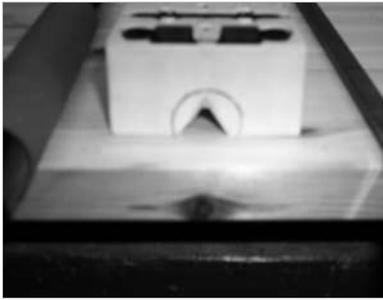
Procedure

Creating the profile sanding pad:

Glue the self-adhesive red fastening sheet onto a round pole that has the same diameter as the object that you then wish to sand. Ensure that the fastening sheet is pressed on firmly and is fitted correctly on the round pole. Then secure the Brilliant P 60 sandpaper onto the fastening sheet. Here too you must press the sandpaper very carefully onto the fastening sheet, following the shape of the profile. The more precisely you work when doing this, the more precise your profile sanding pad will be later.



432/05



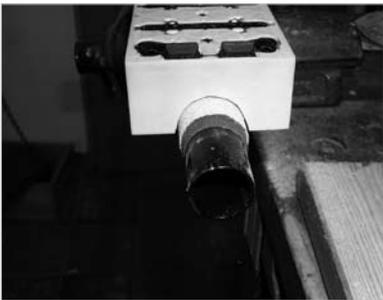
432/06

With large profile depths such as this round pole, you should cut out a section of the profile coarsely with a saw. To do this, the contour of the profile is transferred to the front face of the sanding pad blank.



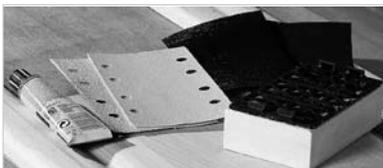
432/07

Then take the sanding pad blank and fasten it onto the Duplex LS 130 Q linear sander. Connect the tool to a dust extractor and set the speed level to 6. Now switch on the DUPLEX LS 130 EQ linear sander and place the sanding pad blank on the sandpaper with a minimum of pressure. Carefully sand the profile completely into the sanding pad blank. To give the blank the precise shape of the profile, keep the tool as stable and straight as possible.



432/08

Replace the Brilliant P 60 sandpaper with the finer P 120 paper and sand the profile finely once more to finish. This gives you a particularly even and precise mirror profile in the sanding pad blank.



432/09

Take the blank off the DUPLEX LS 130 EQ linear sander again and fully coat the entire finished profile contour and the smooth side of the black fastening sheet with contact adhesive glue. Then allow the glue about 15 minutes to flash off until "touch dry"; in other words, when the glue no longer sticks to your fingers the solvent has evaporated completely and the glue is ready to use. Then (and only then), starting from the side, glue the black fastening sheet onto the sanding pad blank and press it evenly and precisely into the profile shape. Proceed with great care because the parts cannot be moved after the first contact.

Note:

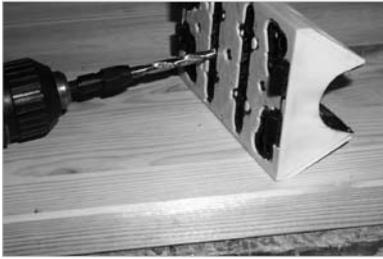
What matters for the strength of the glue bond is the application pressure and not the duration of application.

Next, use a pair of scissors or a utility knife to cut off the overlapping part of the fastening sheet until flush with the sanding pad blank.



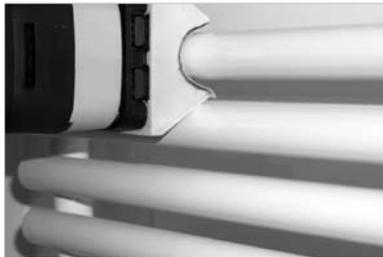
432/10

In order that the profile sanding pad can move between the closely arranged radiator element tubes, the two sanding edges alongside of the profile must be bevelled approx. 40°.



432/11

Finally, carefully drill the dust extraction holes from the back of the sanding pad through the fastening sheet. Ensure that the fastening sheet has been correctly drilled through and that the holes are not covered again when the abrasive is placed in position.



432/12

Now you can use the Duplex and your prepared sanding pad to sand the tubes of the radiator elements or round poles on stairs in a tidy and efficient manner.

FESTOOL

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