

No. 501

## Sawing electrical cable ducts



A

### Description

This application example describes the exact sawing of a PVC cable duct with dimensions 130 x 68 mm using a portable circular saw TS 75.

Electrical lines for telephone, electricity, computers, etc. are laid nowadays by industrial and trade companies in electrical installation duct systems, which are often made of PVC plastic.

Installation is often associated with problems of cutting cable ducts to size or making exact mitre cuts.



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**B**

## Tools/Accessories

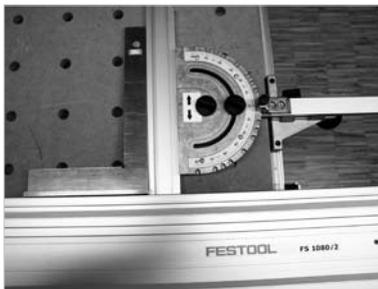


You will need the following tools and accessories for cutting a cable duct:

| Designation                        | Order No. |
|------------------------------------|-----------|
| Plunge-cut saw TS 75 EBQ Plus      | 561182    |
| Guide rail FS 1400                 | 491498    |
| 4x one-hand lever clamp FS-HZ 160  | 491594    |
| 4x MFT-SP quick-action clamp       | 488040    |
| Mobile dust extractor CTM 26 E     | 583848    |
| Multifunction table MFT 3          | 495315    |
| Universal saw blade 210x2.4x30 W36 | 493198    |

**C**

## Preparation/Set-up

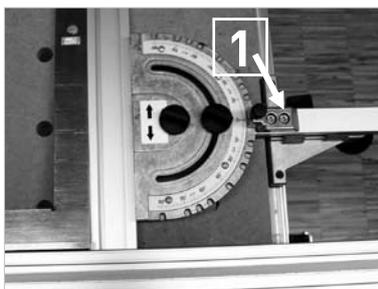


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Preparation at the multifunction table

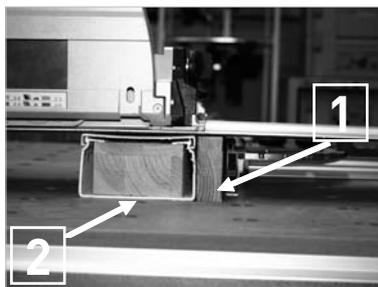
To check the angularity of the stop the guide rail is lowered until it rests on the stop.

Use an angle bracket to check the 90° angle from the stop ruler to the guide rail and readjust if necessary.



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To do this release screw 1, set the 90° angle exactly and retighten the screw.



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Make splinter-free backing

Material: Pine and glued laminated timber used in the example

The splinter-free backing "1" serves as a support for the cable duct when setting up the angle stop and conforms to the height and width of the cable duct to be processed.

To improve stability when working on the PVC cable duct, you can prepare a wooden inlay "2". This fills the entire interior of the cable duct and thus reinforces it during sawing.



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#### Changing the saw blade

- Disconnect the machine from the mains
- Push the FastFix lever down to the stop
- Push switch lock up and push sawing unit down until it locks into place



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- Open screw with Allen screw
- Remove saw blade
- Clean flange
- Insert a universal saw blade [493198]. The direction of rotation of the saw blade and machines must match



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- Mount outer flange and tighten screw
- Push FastFix lever back.



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#### Guide play

- First position the green eccentric jaws in the base plate of the portable circular saw on the guide rail, ensuring there is no backlash.

It should be possible to move the machine on the guide rail without significant resistance.

#### Cutting into the splinterguard at the guide rail

- Prior to the work step, a cut is made into the splinterguard of the guide rail.
- To do this the cutting depth display must be set to 15 mm.
- The cutting depth indicator on the scale is pressed in and, at the same time, set to the desired depth.

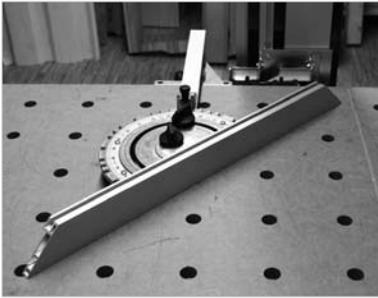
Cut into the splinterguard along the entire length.

This sets the cutting edge of the splinterguard exactly to the circular saw including saw blade and can therefore be used as a guide edge and scribe mark.

# E

## Procedure

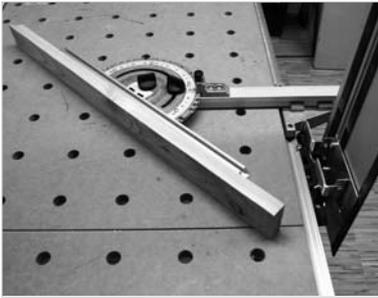
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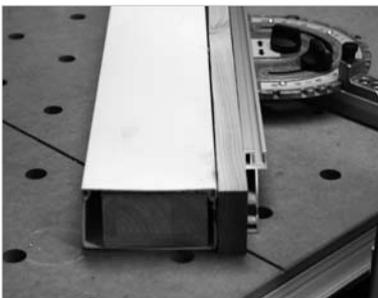
45° mitre cut

- 1. Adjust the MFT pre-set profile setting rail to 45°, Fig. 501/09.



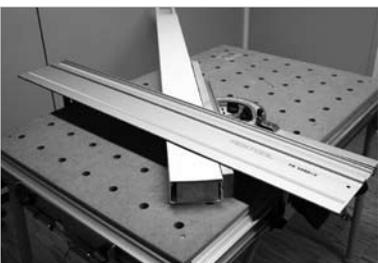
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- 2. Attach splinter-free backing at pre-set profile setting rail.



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- 3. Position cable duct at the splinter-free backing, Fig. 501/11.



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- 4. Fold over guide rail, Fig. 501/12.



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- 5. Adjust guide rail to height of cable duct, Fig. 501/13.



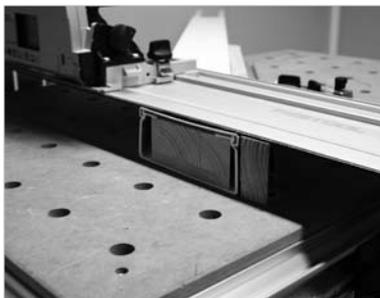
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- 4. Place machine on guide rail. Connect mobile dust extractor and plug-it cable to plunge-cut saw.

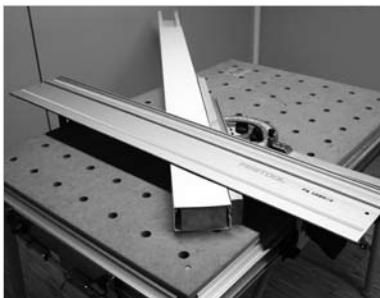


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- 5. Set speed level 4 - 5, switch on machine and cut cable duct at low advance speed.



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**Note:**

Do not use the plastic bristles for structuring. These wear quicker and require considerably more time to create a structure.

The system accessories for the "RUSTOFIX" also include the brush BG 85 with sisal bristles for smoothing and removing salt residue after etching for example (Order No. 508008).

**FESTOOL**

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