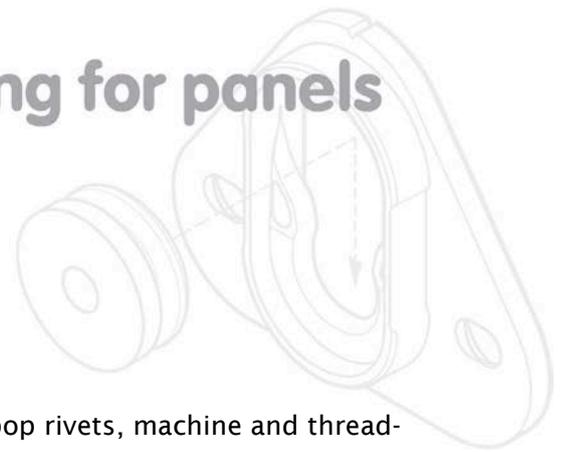


suggested fixings

November 2015



The following list is for guidance only. With the exception of pop rivets, machine and thread-cutting screws, the fixings below are intended for use in timber-based products such as MDF, particleboard and plywood. Alternative fixings and materials may be used but specific combinations should always be tested to ensure suitability.

If using alternative fixings, the screw head **must be flush or sub-surface** on the Button and on rebated Fixes, to avoid interference during assembly. Avoid small screw heads and, for maximum strength, use the largest screw of the maximum length that the panels can accommodate on both the Button and the Fix. For instance, on 18mm panels use 5.0 x 25mm CSK screws on the Countersink Buttons (net thread length of 16.8mm).

Varianta Euroscrews can be found in the Häfele catalogue and on their web sites.

For a guide to peak load capacity for the Type 1 Fix, please refer to the 'load test results' download on our website, www.button-fix.com/useful-information/. Important note: it is the user's responsibility to define the loading safety factor for all uses of Button-fix.

Fixing type Button-fix part numbers 171-XXX-X	Net thread length beyond Button-fix	Notes
--	-------------------------------------	-------

Fixings for Countersink Button 171-002-1

5.0 x 20 CSK (#10 x 0.75")	11.3mm (0.45")	For 12 and 15 mm panels (0.5" to 0.6")
5.0 x 25 CSK (#10 x 1")	16.8 mm (0.66")	For 18 mm panels (0.7") and over
4.0 x 16 CSK (#8 x 0.625")	9.2 mm (0.36")	For 10 mm panels (0.4")
4.5 x 16 CSK (#9 x 0.625")	8.6 mm (0.34")	For 10 mm panels (0.4")
M5 CSK (#10)		User-defined length

Fixings for Euroscrew Button 171-002-2

Varianta Ø 7.8 CSK x13.5 mm (0.5625") Ø5 mm pilot hole	6 mm (0.24")	Häfele part no. 013.15.724
Varianta Ø 7.8 CSK x 16 mm (0.625") Ø5 mm pilot hole	8.5 mm (0.33")	Häfele part no. 013.15.733

Fixing type Button-fix part numbers 171-XXX-X	Net thread length beyond Button-fix	Notes
--	-------------------------------------	-------

Fixings for Type 1 Fix 171-001-1: surface-mounted orientation

4.0 x 12 pan head (#8 x 0.5")	9 mm (0.35")	
4.5 x 16 pan head (#9 x 0.625")	13 mm (0.52")	
5.0 x 20 pan head (#10 x 0.75")	16.2 mm (0.64")	Use 5.0 screws for maximum strength
M5 pan head screws (#10)		Tight fit, but strong
M4 pan head screws (#8)		Use suitable washers to avoid pull-through
Lancaster Fasteners: TCBTZPAN48095ZC (9.5 mm)	6.4 mm (0.25")	Thread-cutting screws for solid grade laminate panels (e.g. Trespa).
Lancaster Fasteners: TCBTZPAN48130ZC (13 mm)	9 mm (0.35")	Requires 10 mm min. panel thickness with Ø4.3 x 8.5 mm min. depth pilot hole to allow for chipping with 9.5 length screw. http://www.lancasterfastener.com/
Lancaster Fasteners: TCBTZPAN48160ZC (16 mm)	12 mm (0.48")	
Pop rivet or blind fixing (generic term) Ø 4.8 mm roundhead		For fixing to thin sheet material. Rivet length to suit material thickness.

Fixings for Type 1 Fix 171-001-1: rebated orientation

4.0 x 16 CSK (#8 x 0.625")	14 mm (0.55")	
4.5 x 16 CSK (#9 x 0.625")	12.8 mm (0.5")	
4.5 x 20 CSK (#9 x 0.75")	16.9 mm (0.67")	
4.5 x 25 CSK (#9 x 1")	21.9 mm (0.86")	
Varianta Ø 7.8 CSK x 10mm (0.4375") Ø5 mm pilot hole	7.2 mm (0.28")	Häfele part no. 013.15.915
Varianta Ø 7.8 CSK x 13.5mm (0.5625") Ø5 mm pilot hole	10.5 mm (0.41")	Häfele part no. 013.15.724
Varianta Ø 7.8 CSK x 16mm (0.625") Ø5 mm pilot hole	13 mm (0.55")	Häfele part no. 013.15.733
Varianta Ø 7 CSK x 16mm (0.625") Ø5 mm pilot hole	12.1 mm (0.48")	Häfele part no. 013.14.930
Varianta Ø 7 CSK x 25mm (1") Ø5 mm pilot hole	22 mm (0.87")	Häfele part no. 013.14.950
Although the Type 1 Fix is not specifically designed for use with Varianta Euroscrews, it can perform satisfactorily with either the Ø3 mm or Ø5 mm pilot hole variants.		
M4 CSK screws (#8)		User-defined length

Fixing type Button-fix part numbers 171-XXX-X	Net thread length beyond Button-fix	Notes
--	--	--------------

Fixings for Type 2 Fix 171-004-1

4.0 /4.5 x 12 pan head (#8/#9 x 0.5")	9 mm (0.35")	For 10 mm panels (0.4")
4.0/4.5 x 16 pan head (#8/#9 x 0.625")	13 mm (0.52")	For 15 mm panels (0.6")
4.0/4.5 x 20 pan head (#8/#9 x 0.75")	17 mm (0.67")	For 18 mm panels (0.7")
4.0/4.5 x 25 pan head (#8/#9 x 1")	22 mm (0.87")	For 25 mm panels (1") and over
Varianta Ø9 x 10.5mm (0.4375") Ø3 mm pilot hole	5.8 mm (0.23")	Häfele part no. 013.20.814
Varianta Ø9 x 13.5mm (0.5625") Ø3 mm pilot hole	8.8 mm (0.35")	Häfele part no. 013.20.832
Varianta Ø7 CSK x 16mm (0.625") Ø3 mm pilot hole	11.8 mm (0.46")	Häfele part no. 013.14.830

Although the Type 2 Fix is not specifically designed for use with Varianta Euroscrews, it can perform satisfactorily with Ø3 mm pilot hole variants. Ø5 pilot hole Varianta Euroscrews are not suitable)

M4 Pan Head screws (#8)		Use suitable washers to avoid pull-through
Lancaster Fasteners: TCBTZPAN48095ZC (9.5 mm)	6.4 mm (0.25")	Thread-cutting screws for solid grade laminate panels (e.g. Trespa).
Lancaster Fasteners: TCBTZPAN48130ZC (13 mm)	9 mm (0.35")	Requires 10 mm min. panel thickness with Ø4.3 x 8.5 mm min. depth pilot hole to allow for chipping with 9.5 length screw. http://www.lancasterfastener.com/
Lancaster Fasteners: TCBTZPAN48160ZC (16 mm)	12 mm (0.48")	

Fixings for Type 1 Flush Fix 171-018-1

Varianta Ø 7.8 CSK x 16mm (0.625") Ø3mm pilot hole	8 mm (0.31")	Häfele part no. 013.15.635 Suitable for 18 mm panels
Varianta Ø 7.0 CSK x 16mm (0.625") Ø3mm pilot hole	9.5 mm (0.37")	Häfele part no. 013.14.830 Suitable for 19 mm panels
4.5 x 20 CSK (#9 x 0.75")	12 mm (0.48")	Suitable for 25 mm panels