

# suggested fixings

October 2020



**The following list is for guidance only. Screw heads must be flush or sub-surface on the Button and on rebated Fixes to avoid interference during assembly. Note that some screw types have oversize self-countersinking heads, which may stand proud, even if they are of the correct suggested size – check before installation!**

With the exception of pop rivets, machine and thread-forming screws, the fixings in the tables 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.

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 all Type 1 fixings, please refer to the 'strength test reports' download on our website, [button-fix.com/technical-resources](http://button-fix.com/technical-resources). 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 no. 171-XXX-X	Net thread length beyond Button-fix	Notes
<b>Fixings for green Countersink Button 171-002-1</b> 		
5.0 x 20 CSK (#10 x 0.75")	11.4 mm (0.44")	For 15 mm panels (0.6")
5.0 x 25 CSK (#10 x 1")	16.4 mm (0.64")	For 18 mm panels (0.7") and over
M5 CSK (#10)		User-defined length
<b>Fixings for orange Euroscrew Button 171-002-2</b> 		
Varianta Ø 7.8 CSK x13.5 mm	6 mm (0.24")	Häfele part no. 013.15.724 <b>Requires Ø 5 mm pilot hole</b>
Varianta Ø 7.8 CSK x 16 mm	8.5 mm (0.33")	Häfele part no. 013.15.733 <b>Requires Ø 5 mm pilot hole</b>

**Fixings for blue Type 2 Button 171-004-21** 

All the fixings listed above for the green **Countersink Button** and the orange **Euroscrew Button** can also be used with the blue **Type 2 Button**.

Fixing type Button-fix part no. 171-XXX-X	Net thread length beyond Button-fix	Notes
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### 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")	Use washers under screw heads
4.5 x 16 pan head (#9 x 0.625")	13 mm (0.51")	
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)		Always use with a suitable washer
TR Fastenings TR00032525-103 #10 x 3/8" pan head Plas-Fix 60	6.4 mm (0.25")	Can be used for acrylic or solid grade laminate panels (e.g. Trespa)
TR Fastenings TR00032523-103 #10 x 1/2" pan head Plas-Fix 60	9.5 mm (0.37")	<b>Requires Ø 4.75 mm pilot hole</b>
Pop rivet or blind fixing Ø 4.8 mm roundhead		For fixing to thin sheet material. Rivet length to suit material thickness. Use washers under rivet heads.

### 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")	
M4 CSK screws (#8)		User-defined length
TR Fastenings TR00032436-103 #8 x 3/8" CSK head Plas-Fix 60	6.4 mm (0.25")	Can be used for acrylic or solid grade laminate panels (e.g. Trespa)
TR Fastenings TR00032434-103 #8 x 1/2" CSK head Plas-Fix 60	10 mm (0.4")	<b>Requires Ø 4mm pilot hole</b> Available from trfastenings.com
TR Fastenings TR00031910-103 4.0 x 16 mm CSK Plas-Tech 30	13.2 mm (0.52")	<b>Requires Ø 3.4 mm pilot hole</b> Available from trfastenings.com
Varianta Ø 7.8 CSK x 10.5 mm	7.2 mm (0.28")	Häfele part no. 013.05.719 <b>Requires Ø 5 mm pilot hole</b>
Varianta Ø 7.8 CSK x 13.5 mm	10.5 mm (0.41")	Häfele part no. 013.15.724 <b>Requires Ø 5 mm pilot hole</b>
Varianta Ø 7.8 CSK x 16 mm	13 mm (0.51")	Häfele part no. 013.15.733 <b>Requires Ø 5 mm pilot hole</b>

Although the Type 1 Fix is not specifically designed for use with Varianta Euroscrews, it can perform satisfactorily with either the Ø 3 mm or Ø 5 mm pilot hole variants.

Fixing type Button-fix part no. 171-XXX-X	Net thread length beyond Button-fix	Notes
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### Fixings for Type 1 Metal 171-021-11 Button

5.0 x 20 CSK (#10 x 0.75")	11.4 mm (0.44")	For 15 mm panels (0.6")
5.0 x 25 CSK (#10 x 1")	16.4 mm (0.64")	For 18 mm panels (0.7") and over
M5 CSK (#10)		User-defined length
Varianta Ø 7.8 CSK x 13.5 mm	6 mm (0.24")	Häfele part no. 013.15.724 <b>Requires Ø 5 mm pilot hole</b>
Varianta Ø 7.8 CSK x 16 mm	8.5 mm (0.33")	Häfele part no. 013.15.733 <b>Requires Ø 5 mm pilot hole</b>

### Fixings for Type 1 Metal 171-021-11 Fix: surface-mounted orientation

5.0 x 12 pan head (#10 x 0.5")	9 mm (0.35")	
5.0 x 16 pan head (#10 x 0.625")	13 mm (0.51")	
5.0 x 20 pan head (#10 x 0.75")	16.2 mm (0.64")	For 18 mm panels (0.7") and over
M5 pan head screws (#10)		User-defined length
TR Fastenings TR00032525-103 #10 x 3/8" pan head Plas-Fix 60	6.4 mm (0.25")	Can be used for acrylic or solid grade laminate panels (e.g. Trespa) <b>Requires Ø 4.75 mm pilot hole</b>
TR Fastenings TR00032523-103 #10 x 1/2" pan head Plas-Fix 60	9.5 mm (0.37")	Available from <a href="http://trfastenings.com">trfastenings.com</a>
Pop rivet or blind fixing Ø 4.8 mm roundhead		For fixing to thin sheet material. Rivet length to suit material thickness.

### Fixings for Type 1 Metal 171-021-11 Fix: rebated orientation

5.0 x 16 CSK (#10 x 0.625")	12.4 mm (0.49")	
5.0 x 20 CSK (#10 x 0.75")	16.4 mm (0.64")	
5.0 x 25 CSK (#10 x 1")	21.4 mm (0.84")	
M5 CSK screws (#10)		User-defined length
TR Fastenings TR00032416-103 #10 x 1/2" CSK Plas-Fix 60	9.8 mm (0.4")	Can be used for acrylic or solid grade laminate panels (e.g. Trespa) <b>Requires Ø 4.75 mm pilot hole</b>
Varianta Ø 7.8 CSK x 10.5 mm	8.2 mm (0.32")	Häfele part no. 013.05.719 <b>Requires Ø 5 mm pilot hole</b>
Varianta Ø 7.8 CSK x 13.5 mm	11.5 mm (0.45")	Häfele part no. 013.15.724 <b>Requires Ø 5 mm pilot hole</b>
Varianta Ø 7.8 CSK x 16 mm	14 mm (0.55")	Häfele part no. 013.15.733 <b>Requires Ø 5 mm pilot hole</b>

Fixing type Button-fix part no. 171-XXX-X	Net thread length beyond Button-fix	Notes
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#### Fixings for Type 1 Flush Fix 171-018-1



TR Fastenings TR00031910-103 4.0 x 16 mm CSK Plas-Tech 30	8.2 mm (0.32")	For 18 mm panels (0.7") <b>Requires Ø 3.4 mm pilot hole</b>
4.5 x 20 CSK (#9 x 0.75")	12 mm (0.48")	For 25 mm panels (1") and over

#### 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 (0.51")	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 Ø 9 x 13.5mm	8.8 mm (0.35")	Häfele part no. 013.15.626 <b>Requires Ø 3 mm pilot hole</b>

Although the Type 2 Fix is not specifically designed for use with Varianta Euroscrews, it can perform satisfactorily with Ø 3 mm pilot hole variants.

Ø 5 mm pilot hole Varianta Euroscrews are not suitable.

M4 pan head screws (#8)		Always use with a suitable washer
TR Fastenings TR00032557-103 #8 x 3/8" pan head Plas-Fix 60	6.4 mm (0.25")	Can be used for acrylic or solid grade laminate panels (e.g. Trespa)
TR Fastenings TR00032555-103 #8 x 1/2" pan head Plas-Fix 60	9.4 mm (0.37")	<b>Requires Ø 4 mm pilot hole</b>