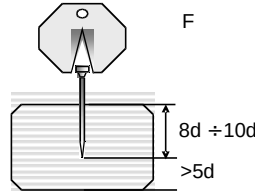


## RESISTANCE TO EXTRACTION OF FASTENING ELEMENTS

References		System design
Test report n°	<b>50/20F</b>	
Reference standard	<b>UNI EN ISO 12777-2:2001 pt.o 5.2</b>	
Test date	05/10/2020	
Test tool	Electronic dynamometer (resolution 1N)	
Tool speed	25 mm/min	
Average test temperature (°C)	21,7	
Average test humidity (% U.R.)	54,2	
Used samples description		
Metal staple with divergent points, model N° 2 , barbed Nominal dimensions: 3,60/4,10 x 17,60 x 50 (L) mm.		
Customer		
Company	Taraschi Andrea	
Place	46010 - Mariana Mantovana (MN)	

### Test data

Staple type	Barbed
Legs wire (mm)	4,10 x 3,60
Length (mm)	50
Crown wide (mm)	17,6

Wood type	pine wood joists
High (mm)	86
Wide (mm)	86
Length (mm)	815
Weight (kg)	2,5
Density (kg/dm3)	0,41

Wood moisture at assembly (%p/p)	-
Wood moisture at test (%p/p)	12,5

Staple penetration (mm)	33
Staples distance (mm)	36

Time elapsed between mounting and testing	>150 hours
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Crown angle	0°
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Crown angle	90°
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Test n°	Maximum force (daN)
1	89,8
2	101,5
3	115,8
4	106,5
5	98,4
6	97,5
7	135,3
8	124,7

Test n°	Maximum force (daN)
9	73,2
10	117,4
11	115,7
12	111,0
13	46,1
14	95,1
15	67,8
16	75,0

<b>Force 0° (daN)</b>	108,7
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<b>Force 90° (daN)</b>	87,7
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<b>Mean max force (daN)</b>	98,2
<b>Expanded Uncertainty ± [daN]</b>	12,5

**NOTE:**  
The assembly was carried out by the customer according to the standard UNI EN ISO 12777-2 : 2001