

TEST REPORT

KEIL - Undercut Fixing



Material

Description : Del Castillo Slate
Size of panel : 200 mm x 200 mm x 30 mm
Manufacturer / supplier : Nordskiffer
Date of order : 15.02.2017

Test Description

Anchor : KEIL-Undercut Facade Anchor
Insertion depth : $h_S = 15$ mm
Drill hole size : cylindrical $\varnothing 7$ mm
undercut $\varnothing 9$ mm
Tested minimum edge distance : 100 mm
Type of drill : KEIL Diamond Facade Drill Bit
Type of load : shear load

Test Results

sample no.	fracture load [KN]	type of rupture	
		excavation cone [mm]	breakage of sheet
1	10,78	100 x 150	
2	12,43		X
3	11,93	80 x 160	
4	11,22	80 x 160	
5	12,37	80 x 150	
6	12,43	50 x 170	
7	14,65		
8	12,14	130 x 140	
9	11,86	90 x 200	
10	9,87	70 x 90	

Arithmetic average : 11,97 KN
Coefficient of variation : 10,49 %
5 % quantile (75%) : 9,57 KN

The testing has been performed with the greatest precision and care. We will not assume any liability for the above test results and we will not assume any third party's liability against us. For verification of the test results they may be confirmed from another source with our complete support and fullest co-operation. The tested materials and pieces will be maintained at our facility for a time period of four weeks.

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Drill hole size : cylindrical $\varnothing 7$ mm
undercut $\varnothing 9$ mm
Tested minimum edge distance : 100 mm
Type of drill : KEIL Diamond Facade Drill Bit
Type of load : central pull
Support : $\varnothing 135$ mm

Test Results

sample no.	fracture load [KN]	type of rupture	
		excavation cone [mm]	breakage of sheet
1	6,89	110 x 150	
2	6,31	60 x 120	
3	7,12	$\varnothing 135$	
4	6,83	70 x 145	
5	6,51	100 x 170	
6	7,30	90 x 135	
7	7,60	140 x 140	
8	7,44	90 x 130	
9	7,75	110 x 130	

Arithmetic average : 7,08 KN
Coefficient of variation : 6,91 %
5 % quantile (75%) : 6,09 KN

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