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Customer reference : -

TEST REPORT

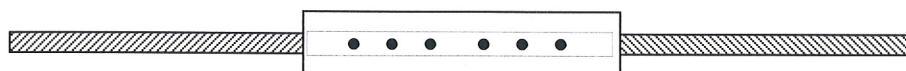
Project : KIWA audit testing
Reference : E. Hermus
Material connector : 25CrMo4
Material inside thread : 42CrMo4
Material reinforcing steel : BST550

RECIEVED TEST SAMPLES

Specimen	
F17841-ALC-32-1 u/t 3	Three ALC couplers, marked: ALC 32 TW

DESCRIPTION TEST SAMPLES

1x Reference reinforcing steel \varnothing 32 mm, Element mark F17841-32-REF
3x ALC-coupler, dimensions L= 480 mm, type ALC 32-TW-43077 42959 with reinforcing steel \varnothing 32 mm, Element mark F17841-ALC-32-1 through F17841-ALC-32-3



A side

B side

DESTRUCTIVE TESTS

Test method: Conform TO NEN 6008/BRL 0504						[Test temperatuur ° C: ambient]				
Specimen no.	Dia- meter [mm]	Cross- section [mm²]	ReH [MPa]	Rm [MPa]	Rm/ReH	Agt [%]	Place of fracture	*6 [mm]	Rm Ratio *7 [%]	Slip [mm]
F17841-REF	32	804	609	709	1.16	10.0	-	-	-	-
F17841-ALC-32-1	32	804	631	730	1.16	7.2	*3	-	103.0	0.05
F17841-ALC-32-2	32	804	630	731	1.16	9.2	*3	-	103.1	0.06
F17841-ALC-32-3	32	804	629	730	1.16	10.9	*3	-	103.0	0.04
Characteristic requirements acc. NEN 6008 for BST550			≥500		≥1.08	≥5.0				
Requirements according BRL-0504								≥25	≥90	≤0.10

CONCLUSIONS/REMARKS

- The coupler is tested in delivered condition.
The connection is torqued up by Terwa
- *1 The reinforcing steel is broken at A side.
 - *2 The reinforcing steel is broken at B side.
 - *3 The reinforcing steel is slipped out the ALC coupler at A side.
 - *4 The reinforcing steel is slipped out the ALC coupler at B side.
 - *5 The coupler thread sheared off.
 - *6 Distance between place of fracture and beginning of the coupler.
 - *7 Tensile strength percentage between the reinforcing steel connection and the reference reinforcing steel.
 - *8 Not determined.
 - *9 The reinforcing steel is broken in the coupler at A side.
 - *10 The reinforcing steel is broken in the coupler at B side.

Element Materials Technology

Authorised: W.H. Mooij



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