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Revision date : 29-02-2016
Date : 25-02-2016
Element report number : EAM017841-ALC-25R1
Customer reference : -

TEST REPORT

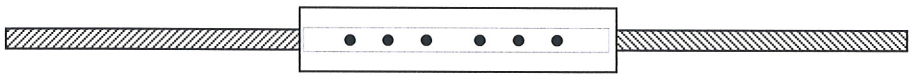
Project : KIWA audit testing
Reference : E. Hermus
Material connector : 25CrMo4
Material inside thread : 42CrMo4
Material reinforcing steel : BST550

RECIEVED TEST SAMPLES

Specimen	
F17841-ALC-25-1 u/t 3	Three ALC couplers, marked: ALC 25 TW

DESCRIPTION TEST SAMPLES

1x Reference reinforcing steel ø 25 mm, Element mark F17841-25-REF
3x ALC-coupler, dimensions L= 390 mm, type ALC 25 TW 43075 592599 with reinforcing steel ø 25 mm, Element mark F17841-ALC-25-1 through F17841-ALC-25-3



A side B side

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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	25	491	613	701	1.14	11.6	-	-	-	-
F17841-ALC-25-1	25	491	612	689	1.13	5.6	*3	-	98.3	0.05
F17841-ALC-25-2	25	491	611	699	1.14	7.1	*3	-	99.7	0.05
F17841-ALC-25-3	25	491	611	703	1.15	9.4	*1	150	100.3	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.

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Authorised: W.H. Mooij

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