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RESEARCH GROUP CONSTRUCTION  
MACHINES AND MATERIALS HANDLING  
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Type testing of terminations for polymer belts with steel-wire cords			
Termination	Type	Asymmetric wedge socket similar to DIN EN 13411-6	
	Name	belt socket RG 75	
Standard	DIN EN 13411-6		
Chapter	Fatigue test		
Client	Süther & Schön GmbH		
Belt			
Width	Denomination	Min. breaking force $F_{min}$	
75 mm	XHS II	209.00 kN	
Termination			
	Socket body	Wedge	Pin
Item No.	RG1 0075 00 000 SSN	K00 0075 00 000 SSN	B01 0075 00 000 SSN
Material	G 20 Mn 5 N	AlSi9Cu3	8.8
Fatigue test			
Nr.	Min. cycle force = $0.15 \cdot F_{min}$	Max. cycle force = $0.3 \cdot F_{min}$	Load cycles
23/22	31.35 kN	62.70 kN	75,000
Annotation	The test was in accordance with DIN EN 13411-6.		
Result	The fatigue test (6.2.4) did not lead to any signs of permanent deformations or indications of cracks. The crack test was carried out by Süther & Schön GmbH (annex). Hence the samples meet the requirements of 5.3.3 and the test has been passed.		

(nur mit Unterschrift gültig)

  
Dr.-Ing. Jochen Höhbusch