

Bodycote Materials Testing Ltd, Teesside Laboratory, Holwick Road, Riverside Park, Middlesbrough, TS2 1QS  
Tel: 01642 250336, Fax: 01642 250337

## Test Certificate

PENN FABRICATION LTD  
3 ARMSTRONG ROAD  
WASHINGTON  
DISTRICT 2  
TYNE & WEAR  
NE37 1LH

REF No T303252 : Issue 1  
Ord No TBA  
Date Tested 26/06/03  
Date Reported 30/06/03

Attn: MR H BARSK

Item - 9 OFF STUD CLIPS

Specification - PRODUCT SPECIFICATION NOT APPLICABLE

Load Test - Client Requirement			
	Position	Details	Comments
001:Failure Load	R1437/01	90 DEG UPWARDS	* 2493kg/5498lbs - FAILURE IN TRACK AND DEFORMATION OF RING
002:Failure Load	R1437/01	PARALLEL TO TRACK	* 1577kg/3477lbs - FAILURE IN CLIP AND DEFORMATION OF RING
003:Failure Load	R1437/01	90 DEG TO TRACK	* 1766kg/3893lbs - FAILURE IN TRACK AND DEFORMATION OF RING
004:Failure Load	R1434/01-36	90 DEG UPWARDS	1633kg/3601lbs - FAILURE IN RING
005:Failure Load	R1434/01-36	PARALLEL TO TRACK	1198kg/2641lbs - FAILURE IN TRACK AND DEFORMATION IN RING
006:Failure Load	R1434/01-36	90 DEG TO TRACK	929kg/2048lbs - FAILURE IN TRACK AND DEFORMATION IN RING
007:Failure Load	R1434/01	90 DEG UPWARDS	* 1744kg/3846lbs - FAILURE IN TRACK AND DEFORMATION OF RING
008:Failure Load	R1434/01	PARALLEL TO TRACK	See Below
009:Failure Load	R1434/01	90 DEG TO TRACK	* 1146kg/2526lbs - FAILURE IN CLIP AND DEFORMATION OF RING
Item 08: 1014kg/2263lbs - FAILURE IN TRACK AND DEFORMATION OF RING AND CLIP			

### Certificate Comments

\* FIXED TO MIDDLE OF R1438 TRACK AND R1439 BACK PLATE  
This is an electronic copy. See original certificate for terms and conditions.

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Tested by BODYCOTE TEESSIDE LTD.

*R.L. Hannant*

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R.L.HANNANT.  
OPERATIONS MANAGER  
For and on authority of  
Bodycote Materials Testing Ltd