

## TEST CERTIFICATE

Order No: 10484

Coating: HOT DIP GALVANISED

Certificate No: 20090831017

LOT NO.: 3121140024

### Product Details

Date of Issue: 2009-08-31

Item	Heat No	Description	Hylton Parker Fasteners Part No.	Spec/Grade
001	4109070043	AS1252 HDG BOLT: M24X80	24X80MHSA	AS1252-1983 (DIMENSIONAL) / AS1252-1996 (MECHANICAL)
002	9469711	AS1252 HDG NUT: M24	24MHSN	
003	92-3705	AS1252 HDG WASHER: M24	24MHSW	

#### Chemical Analysis

Item	C%	Si%	Mn%	P%	S%
001	0.38	0.21	0.54	0.014	0.011
002	0.42	0.22	0.60	0.019	0.013
003	0.47	0.21	0.60	0.017	0.015

#### Required Chemical Analysis

Item	C%		Mn%	P%	S%
	Min	Max	Min	Max	Max
001	0.25	0.55	-	0.035	0.035
001	0.15	0.40	0.035	0.035	0.035

#### Mechanical Properties

Item	Yield (MPa)	Tensile (MPa)	Wedge (MPa)	Elong%	Proof Load
001		894	870		212
002	-	-	-	-	411.2
003	-	-	-	-	N/A

#### Required Mechanical Properties

Item	Yield (MPa)	Tensile (MPa)	Wedge (MPa)	Min Elong %
001	660	830	830	12

#### Final Hardness

Item	Scale	Min	Max
001	HRC	28.00	32.00
002	HRC	30.00	34.00
003	HRC	39.00	41.00

#### Required Final Hardness

Item	Scale	Min	Max
001	HRC	23.00	34.00
002	HRC	24.00	36.00
003	HRC	35.00	45.00

Approved:

- Marking: Grade & Trademark
- Decarburization & Head Soundness
- Visual/Dimensional Examination
- Coating Thickness
- Product verified by Independent Batch Testing in Australia (NATA Approved)

Hylton Parker Fasteners certify that the information given is a true and accurate extract from the manufacturers Test Results. The product conforms to:  
 AS1252-1983 (Dimensional)  
 AS1252-1996 (Mechanical)

*Byung Hwan Lee*  
 IL WOO FASTENER CO.  
 PRESIDENT

For & on behalf of **Hylton Parker Fasteners**  
 (A division of Coventry Group (NZ) Limited)