

PROGRESS WELDED MESH SDN. BHD.

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PRODUCT TEST CERTIFICATE

Distributor/Trader: PWM STEEL PTE LTD	Delivery Destination:	Test Certificate No. : PWM110723
		Date of Issue : 11/7/2023
		Purchase Order (P/O) No. : 2303-1301
		Delivery Order (D/O) No. :
		Delivery Date :



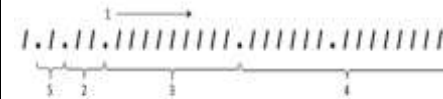
SIRIM
 Certified to MS145:2014
 Certification No.: PC001816

Product Type : STEEL FABRIC					Longitudinal Bar (Main) : Grade 500A according to SS560:2016 Specifications							Transverse Bar (Cross) : Grade 500A according to SS560:2016 Specifications						
Item	Size & Description	Material Supply Source	Material Source Heat No.	Production Job No.	Cross Section (A_n)	Yield Strength (R_e)	Tensile Strength (R_m)	Stress Ratio ($R_m:R_e$)	Total Elongation (A_{gt})	Geometrical Behavior		Cross Section (A_n)	Yield Strength (R_e)	Tensile Strength (R_m)	Stress Ratio ($R_m:R_e$)	Total Elongation (A_{gt})	Geometrical Behavior	
										Rib Profile	Rebend Test						Rib Profile	Rebend Test
1	RA 7	ALLIANCE STEEL S/B	32-5-10991	Stock	36.7	555	626	1.12	2.81	0.049	Passed	36.7	559	636	1.13	3.31	0.049	Passed
2																		
3																		
4																		
5																		

Specification Reference : SS561:2010 (Table 4)		
Performance Characteristics	Minimum Values	
	500A	500B
Yield Strength (R_e) – MPa	500	
Stress Ratio ($R_m:R_e$)	1.03 ^a	1.06
Total Elongation (A_{gt}) – %	2.0 ^b	4.0
^a 1.01 for sizes below 8mm ^b 0.8% for sizes below 8mm		

Item	Minimum ¹ Shear Force ($0.25 \times R_e \times A_n$)	Shear Force Test Results	Status
1	4.82 KN	13 KN	Passed
2			
3			
4			
5			

PWMSB Bar Mark for wire size <10mm



PWMSB Bar Mark for wire size >10mm



Prepared by: Salim Reza
Approved by: Alice Tan

¹ Shear Force shall be calculated based on the Specific Characteristic Yield Strength (R_e) and the Nominal Cross-sectional area (A_n) of the larger bar of the welded joint.

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Disclaimer Notice:
 The test results shown herein is just an indication of the product's performance & characteristics as required to be fulfilled in accordance to the specifications of the standard. However, we shall not be held liable for any failure due to improper application or usage of our supplied goods.



MS146:2014 - D0202J059S219
 MS145:2014 - D0100J059S119
 MS144:2014 - D0201J059S119



Certified to MS144:2014
 Certification No.: PC003764



Certified to MS145:2014
 Certification No.: PC001816



Certified to MS146:2014
 Certification No.: PC003245



REGISTERED No.:
 1151216JH0068