



Dated: 28-01-2025

METALLURGICAL TEST REPORT (Induction Route)

ITEM: CHEMICAL ANCHOR BOLT
SIZE: 12X150MM
MATERIAL: MILD STEEL / GRADE: 4.8
FINISH: WHITE ZINC PLATED

DESCRIPTION OF PARTS											
PROCESS ROUTE											
% CHEMICAL COMPOSITION											
Elements	C (%)	Mn (%)	S (%) Max	P (%) Max	Si (%)	Cr (%) Max	Mo (%)	V (%)	Ai (%)	Br (%)	Cu (%) Max
Minimum	0.13%	0.40%	-	-	0.05%	-	-	-	0.010%	-	-
Maximum	0.20%	0.60%	0.050%	0.050%	0.35%	0.20%	-	-	0.035%	-	-
Achieved	0.16%	0.46%	0.022%	0.030%	0.15%	0.07%	-	-	0.028%	-	-

BASIC PERFORMANCE DATE		
SIZE	12MM	
MEAN ULTIMATE LOAD		
TENSION LOAS $N_{Ru,m}$	[kN]	50.40
SHEAR LOAD $V_{Ru,m}$	[kN]	42.15
CHARACTERISTIC LOAD		
TENSION LOAS $N_{Ru,m}$	[kN]	42.00
SHEAR LOAD $V_{Ru,m}$	[kN]	21.00
DESIGN LOAD		
TENSION LOAS $N_{Ru,m}$	[kN]	20.99
SHEAR LOAD $V_{Ru,m}$	[kN]	16.80
RECOMMENDED LOAD		
TENSION LOAS $N_{Ru,m}$	[kN]	14.99
SHEAR LOAD $V_{Ru,m}$	[kN]	12.00

Thanks & Regards



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