CANCO FASTENERS
Trusted Name in Quality Fixing System

Dated: 28-01-2025

METALLURGICAL TEST REPORT (Induction Route)

ITEM: TIE ROD / TIE-BACK ASSEMBLY
SIZE: M24
MATERIAL: MILD STEEL / GRADE: 8.8
FINISH: ZINC PLATED

DESCRIPTION OF PARTS											
PROCESS ROUTE											
% CHEMICAL COMPOSITION											
Elements	**C (%)**	**Mn (%)**	**Si (%) Max**	**P (%) Max**	**S (%)**	**Cr (%) Min**	**Mo (%)**	**V (%)**	**Al (%)**	**Br (%)**	**Others Max**
Minimum	0.20%	0.70%	-	-	0.05%	-	-	-	0.010%	-	0.10%
Maximum	0.40%	1.00%	0.050%	0.050%	0.060%	0.60%	-	-	0.035%	-	0.20%
Achieved	0.28%	0.82%	0.030%	0.040%	0.028%	0.45%	-	-	0.027%	-	0.07%

BASIC PERFORMANCE DATE		
SIZE		**M24**
MEAN ULTIMATE LOAD		
TENSION LOAD $N_{u,m}$	[kN]	114.50
SHEAR LOAD $V_{u,m}$	[kN]	92.30
CHARACTERISTIC LOAD		
TENSION LOAD $N_{u,m}$	[kN]	90.00
SHEAR LOAD $V_{u,m}$	[kN]	70.00
DESIGN LOAD		
TENSION LOAD $N_{u,m}$	[kN]	58.50
SHEAR LOAD $V_{u,m}$	[kN]	45.00
RECOMMENDED LOAD		
TENSION LOAD $N_{u,m}$	[kN]	52.00
SHEAR LOAD $V_{u,m}$	[kN]	40.00

Thanks & Regards

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