CANCO FASTENERS
Trusted Name in Quality Fixing System

Dated: 28-01-2025

METALLURGICAL TEST REPORT (Induction Route)

ITEM: CHEMICAL ANCHOR STUD
SIZE: M12 x 110MM
MATERIAL: CARBON STEEL / GRADE: 5.8 / 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 (%)	Cu (%) Max
Minimum	0.12%	0.40%	-	-	0.05%	-	-	-	0.010%	-	-
Maximum	0.20%	0.60%	0.050%	0.050%	0.35%	0.20%	-	-	0.035%	-	-
Achieved	0.16%	0.48%	0.030%	0.035%	0.14%	0.09%	-	-	0.027%	-	-

BASIC PERFORMANCE DATE		
SIZE		M12
MEAN ULTIMATE LOAD		
TENSION LOAD $N_{u,m}$	[kN]	75.60
SHEAR LOAD $V_{u,m}$	[kN]	54.30
CHARACTERISTIC LOAD		
TENSION LOAD $N_{u,m}$	[kN]	64.00
SHEAR LOAD $V_{u,m}$	[kN]	43.00
DESIGN LOAD		
TENSION LOAD $N_{u,m}$	[kN]	44.80
SHEAR LOAD $V_{u,m}$	[kN]	34.40
RECOMMENDED LOAD		
TENSION LOAD $N_{u,m}$	[kN]	36.00
SHEAR LOAD $V_{u,m}$	[kN]	27.50

Thanks & Regards

CANCO FASTENERS ESTD. 1971 NEW DELHI

CANCO FASTENERS
+91-011-42525500
www.cancofasteners.com