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MATERIAL TEST CERTIFICATE

STANDARD REFERENCE DOCUMENT

Document No.	CANCO/EB/M10/REF	Revision	00
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PRODUCT INFORMATION

Product Name	CANCO Eye Bolt	Size	M10 × 108 mm
Product Category	Mechanical Expansion Anchor	Base Material	Low Carbon / Anchor Steel
Property Class	Reference anchor steel	Manufacturing Process	Cold Formed / Forged
Surface Finish	Electro Zinc Plated, Yellow Passivated	Coating Thickness	≥ 5 Microns (reference)
Applicable Standards	ISO 898-1 (where applicable) · ISO 4042 · Product-specific engineering specification		

DESCRIPTION OF PARTS

Item No.	Quantity (Pcs)	Dia.	Length	Product Type	Material	Grade	Zinc Plating
1	As Per Actual	10 mm	108 mm	Eye Bolt Expansion Anchor	Low Carbon / Anchor Steel	Reference	≥ 5 Microns

CHEMICAL COMPOSITION (TYPICAL)

Element	Symbol	Composition %
Carbon	C	≤ 0.25
Manganese	Mn	0.30 – 0.90
Silicon	Si	≤ 0.35
Phosphorus	P	≤ 0.050
Sulphur	S	≤ 0.060

MECHANICAL PROPERTIES

Property	Specified Value
Ultimate Tensile Strength, f_{uk}	≥ 300 MPa
Yield Strength, f_{yk}	≥ 180 MPa
Thread Tensile Stress Area, A_s	58.0 mm ²
Characteristic Bending Resistance, $M_{ORk,s}$	58.9 N·m
Reference Design Bending Resistance, M	47.12 N·m

Chemical composition and mechanical values are reference values for the low-carbon anchor steel configuration. Performance values are benchmarked against published mechanical expansion eye-anchor data; actual batch results and project-specific anchor capacity shall be verified for the supplied product.

ANCHOR PERFORMANCE - LOAD VALUES (M10 × 108 MM)

Load Type	Characteristic Load, NRk	Design Load, NRd	Recommended Reference Load, NRec
Tension Load, NRk	Non-cracked concrete – 12.00	Non-cracked concrete – 6.67	Non-cracked concrete – 4.67
Shear Load, VRk	Non-cracked concrete – 14.00	Non-cracked concrete – 11.20	Non-cracked concrete – 7.84

All load values expressed in kN. Values shown are reference characteristic/design values for a single anchor under the stated installation conditions and are not a substitute for project-specific design verification.

QUALITY INSPECTION

Raw Material Inspection	✓ PASS	Surface Finish Inspection	✓ PASS
Dimensional Inspection	✓ PASS	Thread Inspection	✓ PASS
Visual Inspection	✓ PASS	Expansion Sleeve Inspection	✓ PASS

Manufacturer's Declaration — This is to certify that the product described above has been manufactured from quality-controlled raw materials and conforms to the applicable material specifications and manufacturing requirements stated herein. Routine in-process and final quality inspections are carried out in accordance with CANCO Fasteners' Quality Management System.

For CANCO Fasteners
Authorized Signatory

REFERENCE NOTICE

This Material Test Certificate is a standard reference document intended for technical evaluation and product information. Chemical composition and mechanical properties represent typical/reference values for the specified anchor-steel configuration. The M10 × 108 mm configuration and performance figures are reference values benchmarked against published mechanical expansion eye-anchor data and are not batch-specific laboratory results for the supplied Canco product. Actual batch-specific Material Test Certificates — reflecting the heat/lot analysis and inspection results of supplied goods — are issued with confirmed customer orders and are available on request.