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MATERIAL TEST CERTIFICATE

STANDARD REFERENCE DOCUMENT

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PRODUCT INFORMATION

Product Name	CANCO Hook Bolt	Reference Size	M8 × 60 mm
Product Category	Mechanical Expansion Anchor	Base Material	Low Carbon (Mild) Steel
Property Class	4.6 (reference)	Manufacturing Process	Cold Formed / Forged & Assembled
Surface Finish	Electro Zinc Plated	Coating Thickness	5 Microns (min., reference)
Applicable / Reference Standards	ISO 898-1 (Mechanical Properties) · ISO 4042 (Electroplated Zinc Coating)		

DESCRIPTION OF PARTS

Item No.	Quantity (Pcs)	Dia.	Length	Product Type	Material	Grade	Zinc Plating
1	As Per Actual	8 mm	60 mm	Hook Bolt + Expansion Sleeve	Mild Steel	4.6	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
Tensile Strength, R_m	≥ 400 MPa
Yield Strength, R_{eL}	≥ 240 MPa
Proof Load Stress, S_p	225 MPa
Elongation after Fracture, A	≥ 22 %
Core Hardness	120 – 220 HV (67–95 HRB)

Chemical composition indicative of low-carbon steel; mechanical values stated to ISO 898-1 Class 4.6 minima. Anchor performance values are reference benchmarks only and are not a Canco certified product rating.

ANCHOR PERFORMANCE – REFERENCE VALUES (M8 × 60 MM)

Load Type	Characteristic Load, NRk	Design Load, NRd	Recommended Load, NRec
Tension – M8 reference	Concrete C20/25 – 7.50 kN	Concrete C20/25 – 4.17 kN	Project-specific
Shear – M8 reference	Concrete C20/25 – 9.00 kN	Concrete C20/25 – 7.20 kN	Project-specific

All load values are expressed in kN. The anchor performance figures above are reference benchmark values for an M8 expansion anchor under specified concrete conditions; actual capacity depends on anchor geometry, embedment, concrete grade, edge distance, spacing and installation. Final design shall be based on project-specific verification.

QUALITY INSPECTION

Raw Material Inspection	✓ PASS	Surface Finish Inspection	✓ PASS
Dimensional Inspection	✓ PASS	Thread Inspection	✓ PASS
Visual Inspection	✓ PASS	Coating Thickness 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 standards stated herein. Routine in-process and final quality inspections have been 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 for technical evaluation and product information. Chemical composition and mechanical properties are typical values for the specified reference grade. Anchor performance figures are indicative benchmarks only and are not a project design approval. Batch-specific MTCs reflecting actual heat/lot analysis are issued with confirmed customer orders and are available on request.

