

ADVANTAGES

CELSAMAX OFFERS A NUMBER OF IMPORTANT ECONOMIC SAVINGS:

SUPERIOR QUALITY

HIGH YIELD GRADE B500C COILS WITH MORE CONSTANT AND CONSISTENT MATERIAL CHARACTERISTICS AND GUARANTEED MECHANICAL PROPERTIES

ENHANCED PERFORMANCE

THE HOT ROLLED PRODUCTION PROCESS ALLOWS SPOOLING WITHOUT TWISTING, ENSURING COILS ARE EASIER TO STRAIGHTEN WITH NO BENDING OUT OF PLANE WHILST DECOILING

IMPROVED SAFETY

NO SPRING IN THE MATERIAL AND NO WELDS IN COILS

LARGER DIAMETERS

WITH SPOOLER TECHNOLOGY, IT IS NOW POSSIBLE TO PRODUCE SPOOLED COILS IN LARGER DIAMETERS UP TO 25mm

INCREASED PRODUCTIVITY

THE POTENTIAL FOR LARGER, HEAVIER COILS ALLOWING GREATER DECOILING SPEED DURING SUBSEQUENT COLD PROCESSING, FEWER CHANGEOVERS AND LESS ADJUSTMENTS NEEDED ON STRAIGHTENING MACHINES

GREATER STORAGE CAPACITY

MORE COMPACT COILS ARE EASIER AND SAFER TO STACK WITH LESS SPACE REQUIRED PER COIL

DECREASED WASTE

REDUCED WEAR ON ROLLS IN STRAIGHTENING MACHINES USED IN THE PRODUCTION OF CUT AND BENT MATERIAL

LOWER COSTS

FOR ROLLING, TRANSPORT AND STORAGE

LESS RIB ALTERATION

RIB HEIGHT REDUCTION IS GREATLY REDUCED WHEN ROLLING AND WHEN PROCESSING

TIGHTER TOLERANCES

IN THE COIL GEOMETRY

AS WELL AS CONVENTIONAL LINES OF PRODUCTION, CELSA GROUP CURRENTLY HAS 4 SPOOLER PRODUCTION LINES DESTINED FOR THE PRODUCTION OF CELSAMAX (BARCELONA, BILBAO, CARDIFF & OSTROWIEC) WHICH, WITH A PRODUCTION CAPACITY OF UP TO 2 MILLION TONNES ANNUALLY, WILL PLACE THE GROUP AS THE WORLD LEADER IN THE PRODUCTION OF SPOOLED COILS

CELSAMAX: A HIGH PERFORMANCE RANGE

COMPLIANCE WITH CURRENT BRITISH AND EUROPEAN STANDARDS IS GUARANTEED
HIGH DUCTILITY GRADE B500C REINFORCING COIL TO BS 4449:2005
FATIGUE AND CYCLIC LOAD PERFORMANCE EXCEEDS CURRENT STANDARD REQUIREMENTS

PRODUCTION RANGE: 8, 10, 12, 16 & 20mm nominal diameter

COIL DIMENSIONS: internal diameter 850mm / height 820mm / external diameter (approx) 1140mm / weight (approx) 2100Kg

CHARACTERISTICS (CELSAMAX B500C)

MECHANICAL PROPERTIES

YIELD STRENGTH (f_y)	≥ 500 N/mm ²
ULTIMATE TENSILE STRENGTH (f_u)	≥ 575 N/mm ²

DUCTILITY PARAMETERS

ELONGATION TO MAXIMUM LOAD (A_{gt})	$\geq 7.5\%$
STRESS RATIO ULTIMATE TENSILE STRENGTH/YIELD STRENGTH	$1.15 \leq f_u/f_y \leq 1.35$

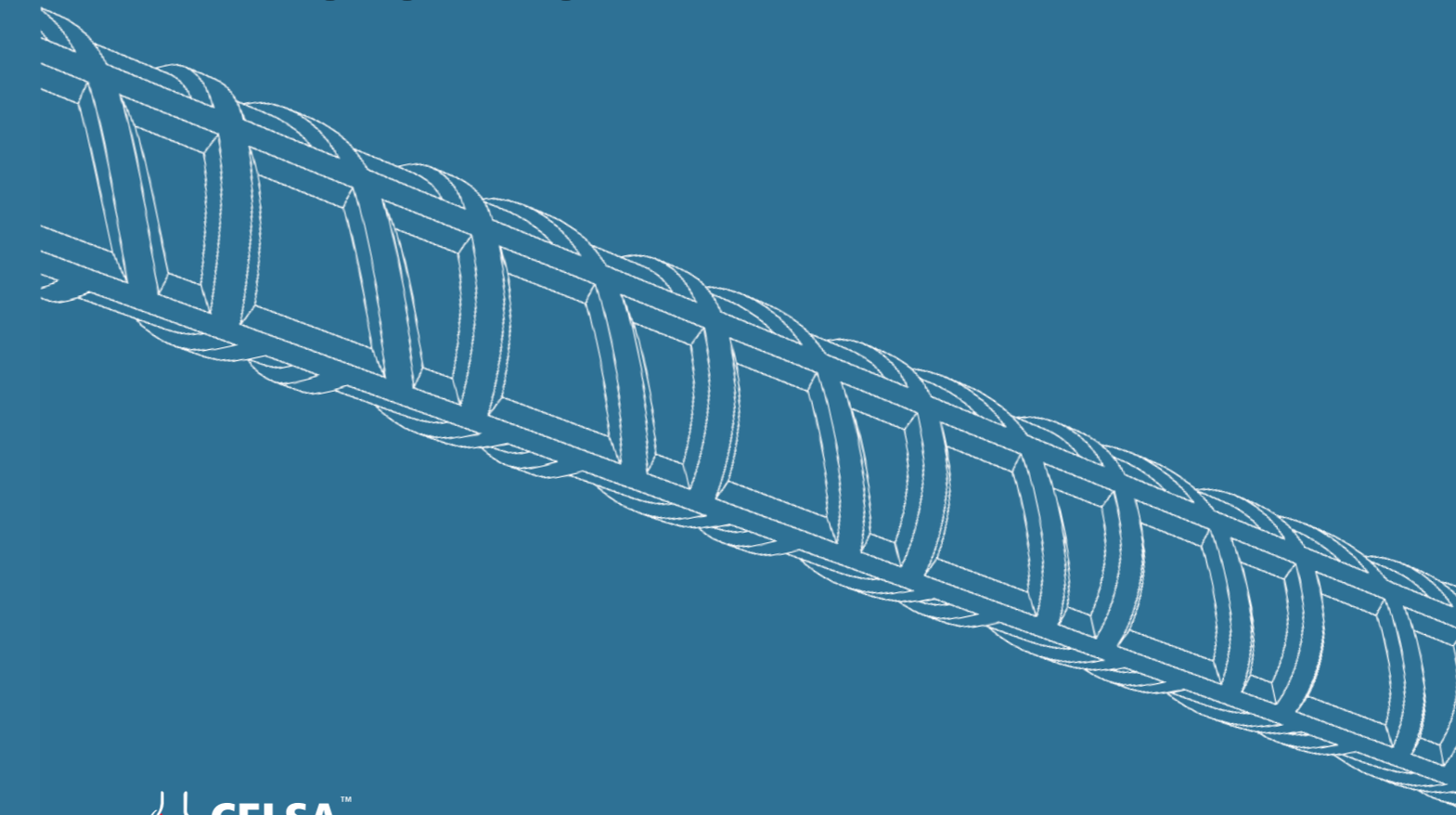
B500C



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CELSAMAX ADDING VALUE TO REINFORCED CONCRETE



ADVANCED DESIGN, ENHANCED RESULTS

CELSA GROUP PRESENTS CELSAMAX, A NEW HIGH PERFORMANCE RANGE OF HIGH YIELD REINFORCING COILS FOR REINFORCED CONCRETE

CELSAMAX'S INNOVATIVE GEOMETRIC DESIGN ALLOWS FOR THE PRODUCTION OF COILS WHICH EXPERIENCE SIGNIFICANTLY LESS DAMAGE DURING ROLLING AND SUBSEQUENT COLD PROCESSING, PRESERVING THE HEIGHT OF THE RIBS AND THE STRAIGHTENING ROLLS ON FABRICATION MACHINES

COMBINED WITH THE BENEFITS OF SPOOLER TECHNOLOGY, AN ENHANCED PRODUCT IS ACHIEVED WITH SUPERIOR PERFORMANCE GUARANTEED. MORE COMPACT, ZERO TWIST COILS WITH BETTER DIMENSIONAL TOLERANCES, SATISFY THE HIGHEST LEVELS OF QUALITY DEMANDED BY OUR CUSTOMERS AND INDUSTRY ALIKE



