

PRODUCT: BEAMD
VERSION: 2010

NEW version BEAMD

- CONTINUOUS BEAM ANALYSIS
- RC DESIGN
- RC DETAILING
- DRAFTING
- REINFORCEMENT SCHEDULING

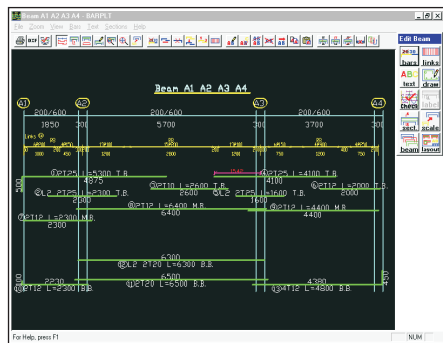
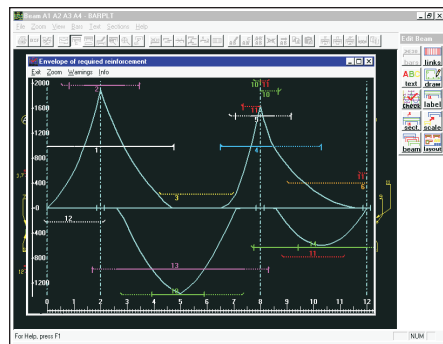
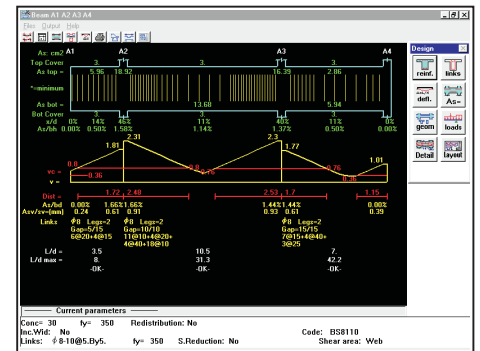
FROM DESIGN TO SCHEDULING IN MINUTES!

BEAMD IS THE COMPLETE TOTALLY INTEGRATED SOLUTION FOR RC BEAM DESIGN, DETAILING, DRAFTING AND SCHEDULING. TRANSFORM A TEDIOUS ERROR-PRONE TASK INTO A FAST, EFFICIENT AND ENJOYABLE INTERACTIVE DESIGN EXPERIENCE WITHOUT BREAKING THE BANK. USE IT ON ITS OWN, USE IT WITH **STRAP**, USE IT WITH A CAD SYSTEM. THE CHOICE IS YOURS. WHICHEVER WAY YOU CHOOSE, YOU WILL ACHIEVE ECONOMIC AND PRACTICAL DESIGNS NEATLY DRAWN AND ACCURATELY SCHEDULED IN MINUTES. **WE CHALLENGE YOU TO WORK FASTER OR SMARTER.** ENGINEERS AROUND THE WORLD HAVE FOUND **BEAMD** TO BE THE MOST PRODUCTIVE RC BEAM PACKAGE EVER. FIND OUT WHY BY TRYING IT YOURSELF FOR FREE. **CONTACT US NOW FOR AN EVALUATION CD.**

BEAMD IS AVAILABLE TO EC2, BS8110, ACI AND OTHER CODES CHECK FOR A VERSION FOR YOUR REGION.

ANALYSIS AND DESIGN

UP TO 10 SPANS. CROSS SECTION TYPES: RECTANGULAR, T, INVERTED T, L, I. CHANGE OF DEPTH WITHIN A SPAN. CONCENTRATED OR DISTRIBUTED LOADS: UNIFORM OR TRAPEZOIDAL - SUPPORT DEFLECTION AND WIND MOMENTS. AUTOMATIC CALCULATION OF ENVELOPE FOR MOMENTS AND SHEAR FORCES - BASED ON LOADING PATTERNS ACCORDING TO CODE REQUIREMENTS. AUTOMATIC MOMENT REDISTRIBUTION. CALCULATION OF LONGITUDINAL REINFORCEMENT INCLUDING CHECK FOR: MINIMUM AND MAXIMUM REINFORCEMENT, COMPRESSION REINFORCEMENT WHEN REQUIRED. LINKS DESIGN FOR SHEAR INCLUDING: SHEAR REDUCTION AT SUPPORTS, AUTOMATIC VARIABLE SPACING DESIGN ACCORDING TO CODE REQUIREMENTS. DEFLECTION CHECK ACCORDING TO THE CODE TABLES.



DRAWING LAYOUT

WHEN ARRANGING A DRAWING WITH THE DETAILED BEAM ELEVATION, THE USER HAS THE FOLLOWING OPTIONS: INTERACTIVE DEFINITION OF EACH BEAM ELEVATION AND SECTION LOCATION ON THE DRAWING, TO ADD TYPICAL DETAILS AND TEXT FROM FILE LIBRARIES. **THE FINAL FULLY SCALED DRAWING CAN BE PLOTTED, PRINTED OR TRANSFERRED TO AN AUTOCAD DXF FORMAT FILE.**

DETAILING

THE DETAILING MODULE AUTOMATICALLY DISPLAYS A REINFORCEMENT ARRANGEMENT WHICH REPRESENTS AN ECONOMIC AND PRACTICAL SOLUTION. IN A FEW SECONDS THE PROGRAM SELECTS AND DETAILS EACH BAR ACCORDING TO THE RELEVANT CODE REQUIREMENTS: MOMENT ENVELOPE COVERAGE, ANCHORAGE AND CURTAILMENT, ARRANGEMENT OF BARS IN THE SECTION, RESTRICTIONS ON PERCENTAGE OF REINFORCEMENT, NUMBER OF BARS AND ALLOWABLE DIAMETERS, TOP/BOTTOM FACE LEVEL DIFFERENCE BETWEEN SPANS.

THE AUTOMATIC DETAILING IS CARRIED OUT ACCORDING TO USER-DEFINED PARAMETERS (SUCH AS RANGE OF DIAMETERS AND COVERS) BUT REINFORCEMENT DETAILS ARE EASILY MODIFIED INTERACTIVELY. THE DIAMETER, QUANTITY, LENGTH, LAYER, ETC. OF ANY BAR MAY BE REVISED. REVISIONS ARE AUTOMATICALLY REFLECTED IN THE BEAM ELEVATION, THE DETAILING, THE SECTION AND IN THE SCHEDULING. THE USER NEED NOT WORRY THAT THE MODIFIED ARRANGEMENT WILL NO LONGER MEET THE CODE REQUIREMENT AS **AT ANY STAGE** HE CAN REQUEST A COMPLETE DESIGN CHECK OF THE CURRENT ARRANGEMENT AND A GRAPHIC DISPLAY OF THE REINFORCEMENT SUPERIMPOSED ON THE BENDING MOMENT ENVELOPE. **THIS CLEARLY SHOWS ANY EXCESS OR MISSING REINFORCEMENT.**

SECTIONS

THE USER CAN POINT TO ANY LOCATION ALONG THE BEAM AND REQUEST THE PROGRAM TO AUTOMATICALLY DRAFT A CROSS-SECTION, INCLUDING REINFORCEMENT. A SPECIAL GRAPHICS MODULE ENABLES THE USER TO MODIFY THE SECTIONS PRODUCED BY THE PROGRAM (ADD NOTCHES, SLAB DETAILS, ADDITIONAL REINFORCEMENT, TEXT, ETC.). SECTIONS MAY BE IMPORTED (DXF)

THE USER MAY ALSO USE A LIBRARY OF TYPICAL SECTIONS - THE PROGRAM WILL AUTOMATICALLY MODIFY THE SECTION TO SUIT THE ACTUAL BEAM

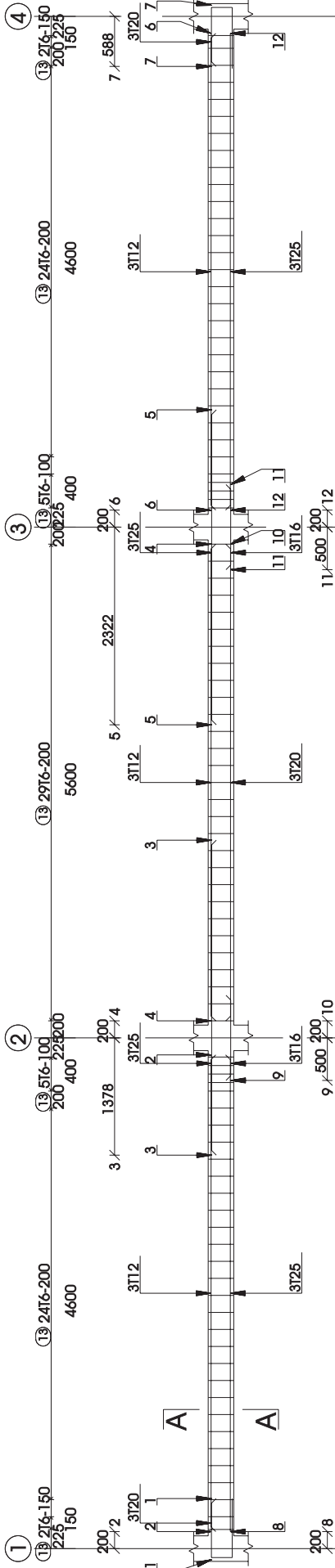
SCHEDULING

THE SCHEDULING MODULE AUTOMATICALLY CREATES A BAR SCHEDULE FOR THE DRAWING. IT MAY ALSO BE USED AS A STAND-ALONE PROGRAM FOR ANY REINFORCEMENT DRAWING.

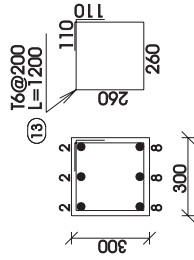
SEE OVERLEAF FOR TYPICAL OUTPUT

Visit www.gtscad.com
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Beam: 1 2 3 4



A-A
1:20



GTS CONBUILD Limited
 Proj number : 1
 Proj name : test project
 File Name : PR01.BAR
 Date : 24/09/04

Bar Schedule

Proj name: test project		Bar schedule ref: 1		Date prepared: 24/09/04		Date revised:				
Site ref:		any drawing		Checked by:		Rev. Letter				
Member	Bar Mark	Type & Size	No of bars	Total no. of bars	Length of each bar	A mm	B mm	C mm	D mm	E mm
Beam: 1 2 3 4	1	T20	1	3	1600	21	718	244	718	
Beam: 1 2 3 4	2	T12	1	3	5600	00	5600			
Beam: 1 2 3 4	3	T25	1	3	3700	00	3700			
Beam: 1 2 3 4	4	T12	1	3	5600	00	5600			
Beam: 1 2 3 4	5	T25	1	3	3700	00	3700			
Beam: 1 2 3 4	6	T12	1	3	5600	00	5600			
Beam: 1 2 3 4	7	T20	1	3	1600	21	718	244	718	
Beam: 1 2 3 4	8	T25	1	3	5600	00	5600			
Beam: 1 2 3 4	9	T16	1	3	1000	00	1000			
Beam: 1 2 3 4	10	T20	1	3	5600	00	5600			
Beam: 1 2 3 4	11	T16	1	3	1000	00	1000			
Beam: 1 2 3 4	12	T25	1	3	5600	00	5600			
Beam: 1 2 3 4	13	T16	1	91	1200	51	260	260	110	110

This schedule complies with BS 8666

This output is representative only. BEAMD can be configured to produce drawings and schedules acceptable in most countries worldwide.