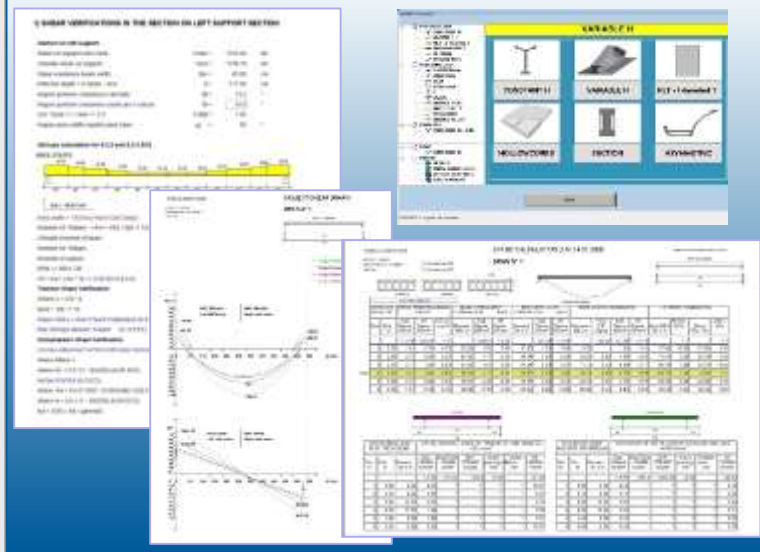


THE FASTER IN THE WORLD PROGRAMS FOR CALCULATION, DRAWING AND ESTIMATION OF PRESTRESSED AND REINFORCED CONCRETE BEAMS

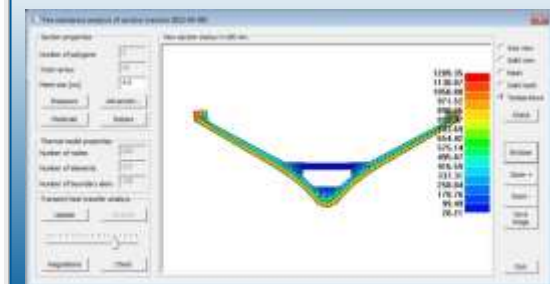
VERIFICATION AND DESIGN OF ANY KIND OF BEAM



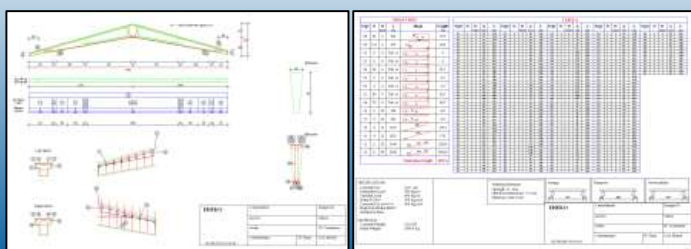
CUSTOM-DESIGNED PROGRAMS



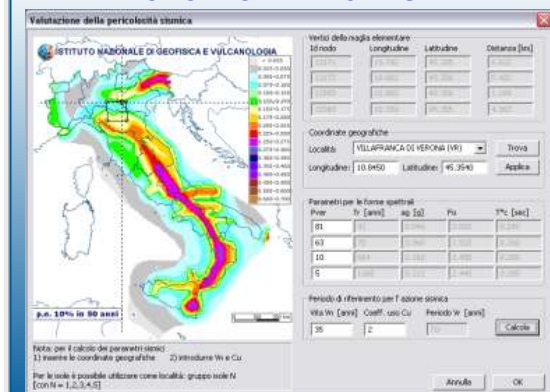
FIRE VERIFICATION



WORKSHOP DRAWING WITH BILL OF MATERIALS, QUANTITIES AND PARAMETRIC REBARS



SEISMIC VERIFICATION



TECHNICAL SUPPORT INCLUDED
speed and expertise guaranteed
Developer technicians and engineers answer
directly to your questions



PREF

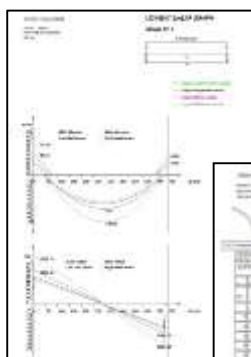
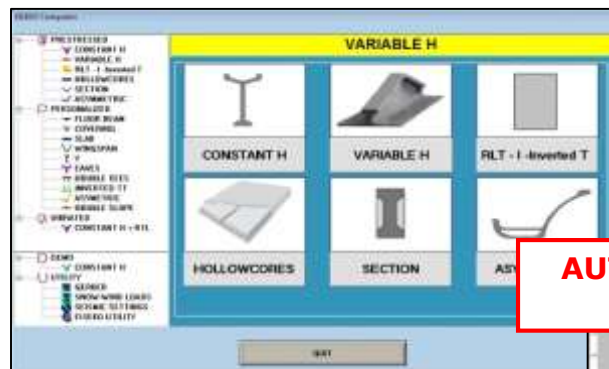
DRAWING AND CALCULATION PROGRAMS FOR PRESTRESSED AND REINFORCED BEAMS

Eurocode 2 UNI EN 1992-1-1 version 2005 and NTC 2018

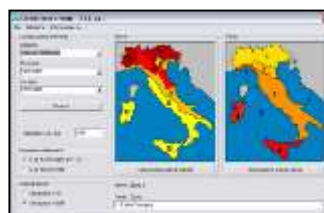
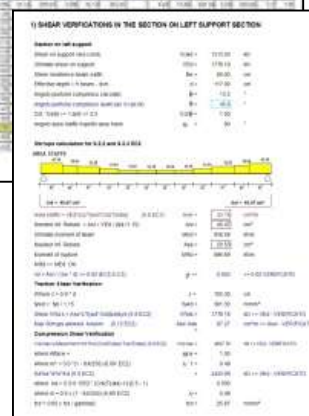
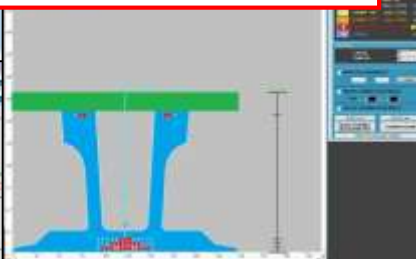
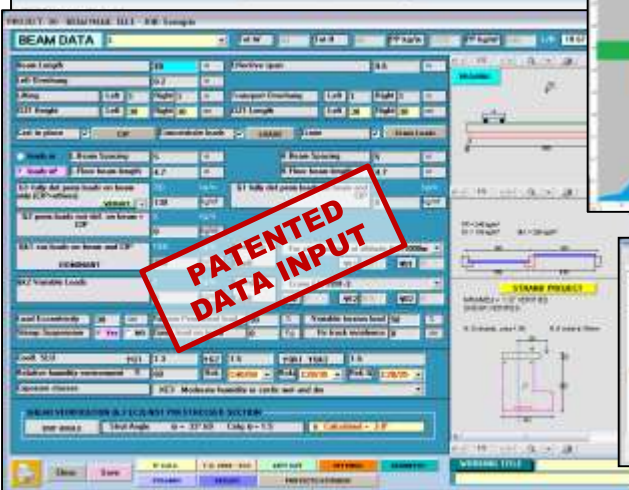


BEAMS WITH ANY KIND OF SHAPE

EASY TO USE CLEAR RESULTS



AUTOMATIC STIRRUPS DESIGN

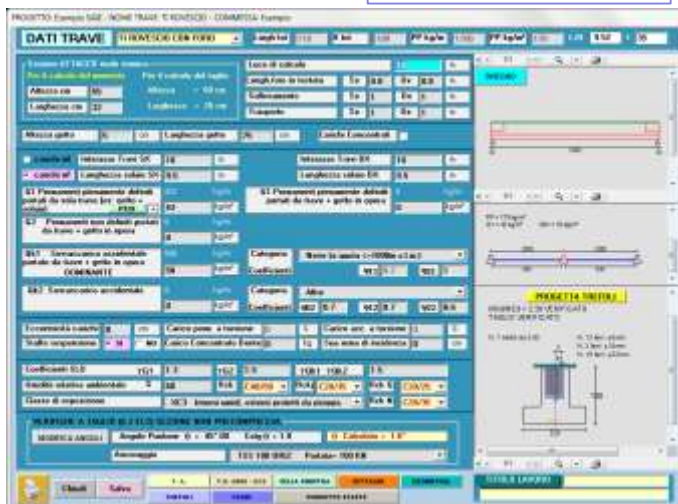


GERBER SUPPORT

SNOW-WIND LOADS



SEISMIC CONNECTION NEW PROGRAM FOR PRESTRESSED BEAMS CALCULATED IN THE TWO PHASES: SIMPLY SUPPORT AND FIXED SUPPORT



✓ **Constantly updated to the newest Regulations**

✓ Checks are iterative and in any point of the beam

✓ Verification of overhang supports

✓ Partial prestress verification

✓ Shear verifications in the not prestressed sections on supports, according to the variable strut inclination method

✓ Input of loads on beam using m^2 or linear m , your choice

✓ CAST IN PLACE – CONCENTRATED LOADS

✓ AUTOMATIC DESIGN OF THE NEEDED STRANDS as for breaking verification for prestressed beams

✓ AUTOMATIC DESIGN OF THE NEEDED REBARS as for breaking verification for not-prestressed beams

✓ AUTOMATIC STIRRUPS DESIGN along the whole beam

✓ Calculation of ANY KIND OF SECTION (input by automatic parametric sections, coordinates, trapeziums, DXF import, customizations)

✓ The complete reports and tables can be exported as: DOC, RTF, PDF, HTML

✓ SO FAST IT CAN BE USED ALSO IN THE QUOTING STEP

✓ Input of piece of rebars in any point of the beam

✓ Constraint Reactions

✓ Diagrams of use

✓ Verification of Gerber supports

✓ Results are evidenced for a faster and easier reading with clear warnings if values are beyond rule limits

✓ Graph of the minimal needed area of stirrups along the whole beam

✓ Easy and graphic management of strands, rebars and sheaths.

✓ Automatic WORKSHOP DRAWING WITH QUANTITIES

✓ Many parametric rebars and stirrups to select

✓ Working verification in any section

✓ Automatic calculation of all the geometrical characteristics

✓ Settings of user defaults data fasten the inputs of the most used configurations of beams

✓ Handy starting menu

✓ VERY EASY TO USE

✓ Lots of enhancements are made according to customer request

✓ Available Languages : Italian, English, Spanish

✓ **TECHNICAL SUPPORT** Developer technicians and engineers answer directly to your questions

PREF FEATURES



Section fire resistance analysis

M-H limit features

Safety factor

Concrete	1.20
Steel	1.00

Tensile section: 2234.3 kN

Compressed: 5979.3 kN

Lower fiber in: 1713.3 kN m

Upper fiber in: -61.2 kN m

Left fiber in tension: 526.8 kN m

Right fiber in: -221.6 kN m

[Update]

V limit features

Safety factor

Concrete	1.20
Steel	1.00

Axi/s: 5.77 cm2/s

Fy/s: 450.0 N/mm2

Theod: 0.0 C

Ann: 1.00

Delta: 0.00 in

Sin fin: 2.49 in

d: 0.95 m

V (tot): 5996.8 kN

Vd: 111.8 kN

Ved: 337.8 kN

V len: 444.2 kN

F: 165.0 kN

Rd / Ed: 1.71

[Update]

Proportional M-H limit features

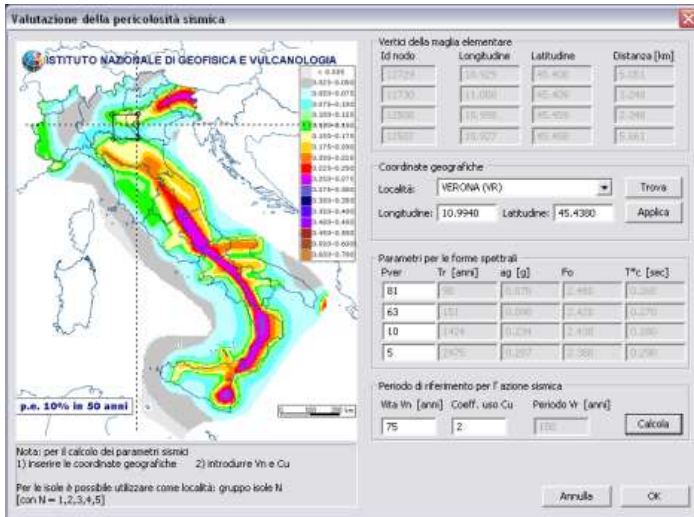
N	0.0 kN	N+e	-0.0 kN	Positive N: compression
M+e	1243.2 kN m	M+e-lens	1713.3 kN m	Positive M+e: lower fiber in tension
M+e-d	0.0 kN m	M+e-d-lens	-0.0 kN m	Positive M+e-d: left fiber in tension

Rd / Ed: 1.38

[Update]

[Save check] [Exit]

SEISMIC VERIFICATION



Project Name : Beni sara 36361

SEISMIC VERIFICATION

Site Class

<input type="radio"/> I	Buildings of lesser importance to public safety	$V_s = 50$	Can = 0.7
<input type="radio"/> II	Ordinary buildings	$V_s = 58$	Can = 1
<input type="radio"/> III	Important buildings in relation to the consequences of possible collapse	$V_s = 90$	Can = 1.5
<input type="radio"/> IV	Buildings whose failure has fundamental importance for civil protection	$V_s = 180$	Can = 2

DELETE LOCATION **CHOOSE LOCATION** SAN MARINO INTERNATIONAL (VNF)

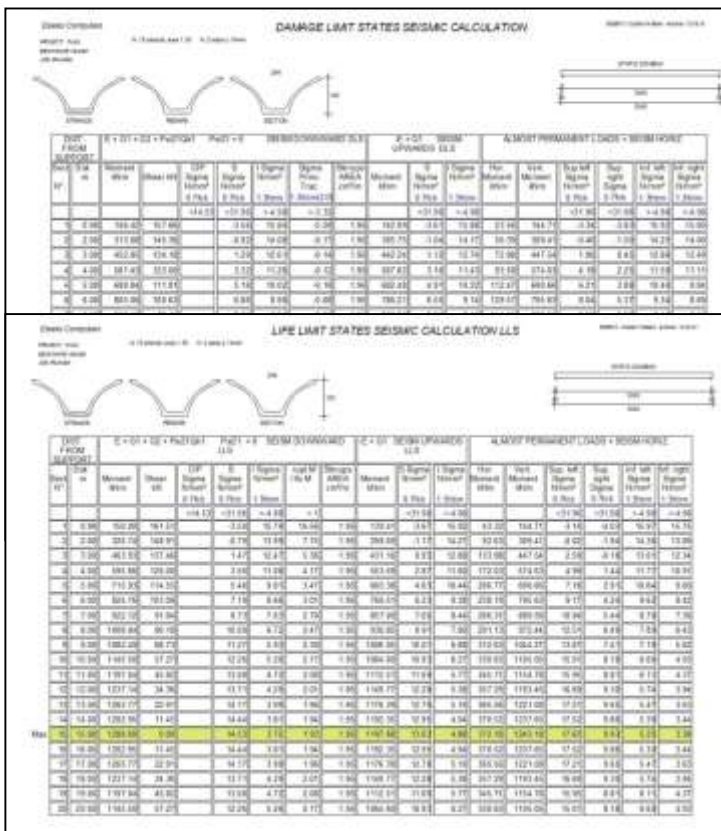
Location Latitude	43.47	Location Longitude	11.506
Beams Normal M6 (10-58) (kg)	20	Drainage cat	1
Period of reference	20	years	
Ultimate limit state (ULS)	0.1	Verifiability limit state (ULS)	0.1
Structure factor	1.5	Use Structure factor	0.6
Topographic Category	II	Subsoil Category	II

Pos	Ti	deg	Fi	T% ₀	
01	04	30.884	0.3	0.34	SLO
02	04	30.825	0.35	0.35	SLO
03	075	35.134	0.43	0.38	SLV
04	075	35.188	0.67	0.26	SLC

ONLY VERTICAL SEISM ☒ **ULS - ULS CALCULATION** **ULS - ELIMINATION** **ELIMINATION**

- ✓ Rules: **TECHNICAL STANDARDS FOR STRUCTURES D.M. 17/01/2018**
- ✓ Graphic visualization on the map of the seismic locations according to the New Seismic Classification
- ✓ Automatic latitude, longitude and needed coefficients once the user choses the location
- ✓ Automatic calculation of the Seismic Dangerousness of the location
- ✓ Seismic Analysis with Project Spectrum calculation, for each limit condition (Limit State of operation, Damage limit state, Limit state of collapse prevention, Life limit state)



Eiseko Computers



SEISMIC REPORT

PROJECT	Puerto
BEAM NAME	Irlanda
JOB	IRLANDA
Date: 15/04/2008	Hour: 08:51:0

The beam is coated with Damage Limita Stone and with LMA Limita Stone following Eurocode 2 (EN 1992-1-1: 2007).
Note: In the calculated the sign—negative traction. The Asbestos are attached with ratio 10 instead of 8 (EN 1992-1-1: 2007) in the usual referred to the relation.

Location of the beach: SAN MARTINO BUON ALBERGO (VR)

Latitude 45 4200

Longitude = 11.000 °

Class Profile	•	
1. <i>Highly motivated</i>	1	1
2. <i>Lowly motivated</i>	1	1
3. <i>Highly motivated</i>	1	1
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7. <i>Highly motivated</i>	1	1
8. <i>Lowly motivated</i>	1	1
9. <i>Highly motivated</i>	1	1
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11. <i>Highly motivated</i>	1	1
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94. <i>Lowly motivated</i>	1	1
95. <i>Highly motivated</i>	1	1
96. <i>Lowly motivated</i>	1	1
97. <i>Highly motivated</i>	1	1
98. <i>Lowly motivated</i>	1	1
99. <i>Highly motivated</i>	1	1
100. <i>Lowly motivated</i>	1	1

Dean Forward life	10.0	10	ans
Dean Ford	10.0	10	

Usage Cost	Use =	1.0
T = Ordinary buildings		

Period of reference: 18. x 10³ $\Delta R =$ $\Delta Q =$ $\Delta W =$

Data from CIM-14-01-2008

Damage-Limit State

F_0 = factor that quantifies the max. spectrum amplification = 2.490

T ₀ = initial period with constant spectrum speed	=	0.250 s
--	---	---------

 $ag = \text{max acceleration in location}$ $ag = 0.015 \text{ m/s}^2$

Damage Limit State Coeff.	Pd =	SL
1. Major Component Damage		
2. Minor Component Damage		
3. Minor Component Damage		
4. Minor Component Damage		
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96. Minor Component Damage		
97. Minor Component Damage		
98. Minor Component Damage		
99. Minor Component Damage		
100. Minor Component Damage		

Life-Like State

T_2 = lattice relaxation time for the main spectrum (magnetic field)	=	2.420
T_2^* = initial decay with constant magnetic field	=	0.590

λ_{max} = maximal protein absorption maximum (spectral peak)	λ_{max}	2.280	nm
λ_{ex} = max. excitation or location	λ_{ex}	2.154	nm ²

Life limits State Coeff. LLS	Pst =	0.16
------------------------------	-------	------

	2006	2007
Other coefficients	-0.0008 (-0.001)	-0.0009 (-0.001)

Vert. load structure Factor	=	1.50
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Her final structure factor = 1.00

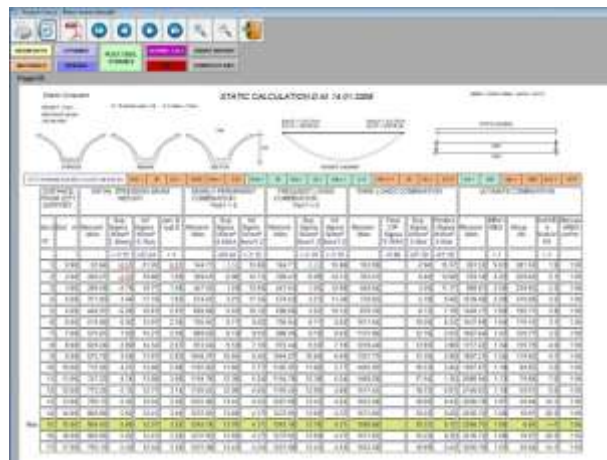
Topographic Category	n	P1
Open	10	0.00
Shrub	10	0.00
Forest	10	0.00
Water	10	0.00
Urban	10	0.00
Barren	10	0.00
Grass	10	0.00
Wetland	10	0.00
Other	10	0.00

Subject Category	A	B
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CONSTANT H BEAMS

DESIGN AND VERIFICATION of symmetric beams **with constant height.**

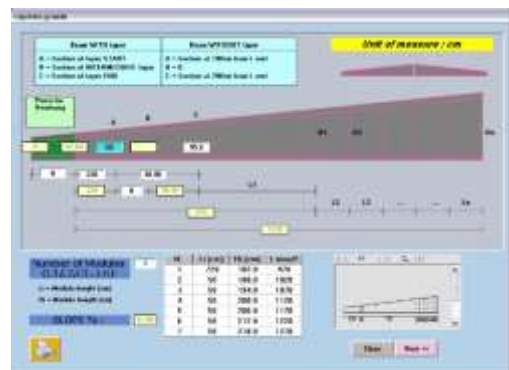
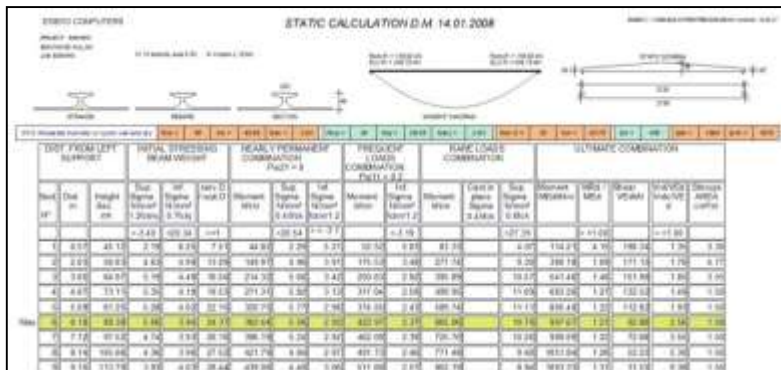
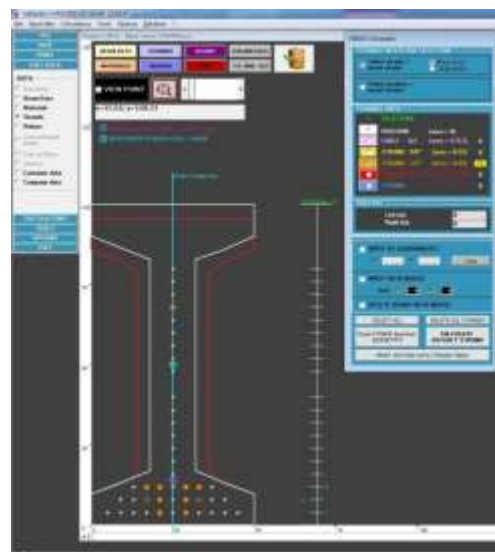
- PRE-TENSED and POST-TENSED beams
- LOCAL VERIFICATION (verification of a load on a tooth, verification of tooth and suspension, verification of the only suspension)
- Automatic parametric sections
- Editing of a database with the most used roof elements for the automatic calculus of G1, so that the user doesn't need to look through weight tables each time



VARIABLE H BEAMS

DESIGN AND VERIFICATION of symmetric beams **with variable height.**

- Input of the formwork to simplify beam dimension management
- Automatic parametric sections
- Handy vertical navigation bar
- Editing of a database with the most used roof elements for the automatic calculus of G1, so that user doesn't need to check weight tables each time
- Calculation of the half beam
- Superior peak flat option
- Asymmetric beams



R L T I BEAMS

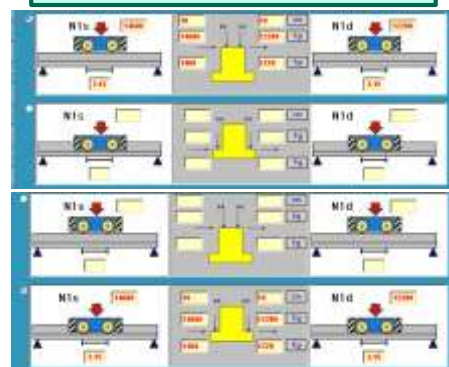
Inverted T, Straight T, L, I, Rectangular and PREDALLES NEW!

- Possibility to save Default Sections
- Parametric Rebars and stirrups
- Embeds
- Lots of lifting hooks to chose
- WORKSHOP DRAWING WITH QUANTITIES
- Check of maximum capacity of strand pulling track
- **Crane:** automatic input of the forces due to cranes (up to 4). The program calculates automatically moments and shares after the needed checks



PARAMETRIC SECTIONS

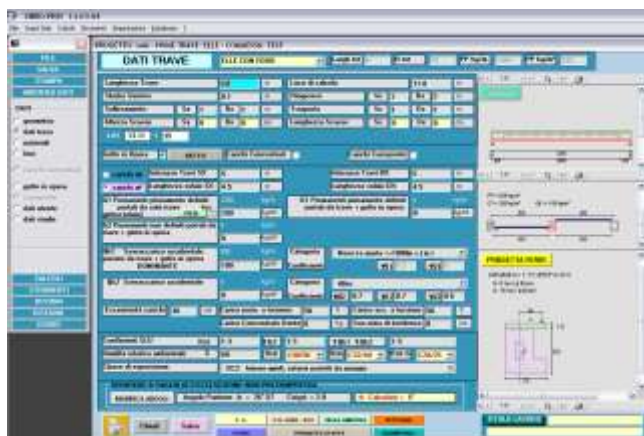
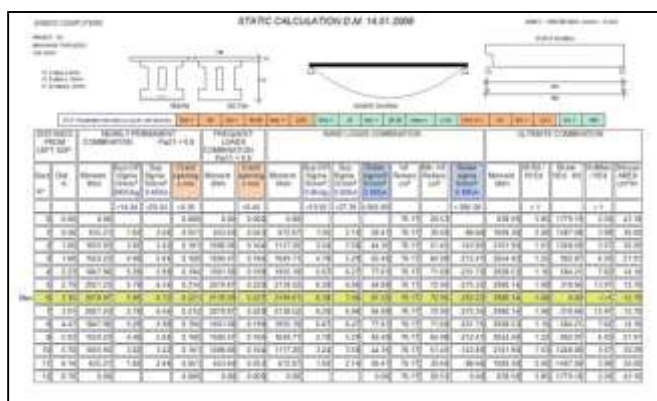
AUTOMATIC CRANE LOADS



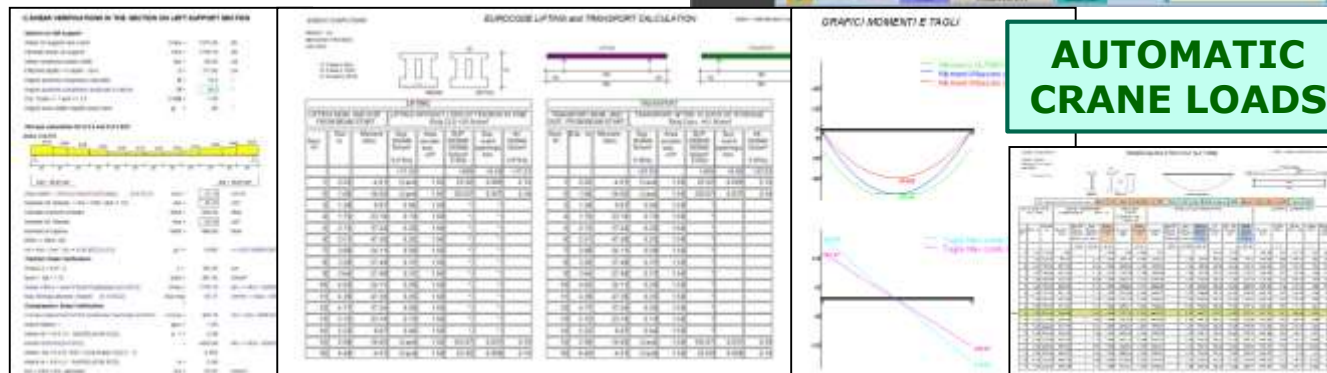
According to ISO Rules

REINFORCED CONCRETE BEAMS

CONSTANT H and VARIABLE H



AUTOMATIC CRANE LOADS



PANTRAF

Simple HOLLOWCORE slabs with semi-rigid joints, placed in continuity

**UP TO 4 SPANS +
OVERHANGS**



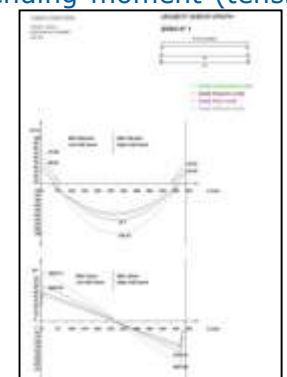
AUTOMATIC DESIGN OF THE HOLLOWCORE

IF YOU THINK 10 SECONDS ARE TOO MUCH, PANTRAF CAN CHOOSE, FROM A LIST DEFINED BY THE USER, THE RIGHT HOLLOWCORE WITHIN 4 SECONDS, JUST THE TIME TO WRITE SPAN AND LOADS. **PANTRAF WILL PROPOSE THE HOLLOWCORE TYPE, THE NUMBER OF HOLES TO FILL, MINIMUM REBARS BOTH FOR FLEXION AND SHEAR.**

NEW FEATURES



- ✓ AUTOMATIC FILLINGS OF CORES
- ✓ Self-weight of hollowcores and cast in place are automatic or set by user
- ✓ Reinforced rebars also in the cast between hollowcores
- ✓ Possible reduction of the Elastic module of the precast element
- ✓ CIP concrete between hollowcores is computed for the calculation of composite section properties: for shear and bending moment verifications
- ✓ Rebar to be grouted in for negative bending moment (tension at extrados)
- ✓ Shear verification EN1168
- ✓ Shear verification at midspan



**MOMENT AND
SHEAR GRAPHS**

FREE ADD-INS FOR ALL PROGRAMS
engineers can easily and quickly
make daily calculations

UNIT OF MEASURE CONVERSION

CONVERSIONE UNITA' DI MISURA

da	in	in	in	in	in	in	in	in	in
mm	1	0.1	0.001	0.000001	0.000000001	0.000000000001	0.0000000000000001	0.000000000000000001	0.00000000000000000001
cm	10	1	0.01	0.0001	0.000001	0.00000001	0.0000000001	0.000000000001	0.00000000000001
m	1000	100	1	0.001	0.000001	0.00000001	0.0000000001	0.000000000001	0.00000000000001
km	1000000	100000	1000	1	0.001000	0.000001000	0.000000001000	0.000000000001000	0.00000000000001000
mm	0.1	0.001	0.000001	0.000000001	0.000000000001	0.0000000000000001	0.000000000000000001	0.00000000000000000001	0.0000000000000000000001
cm	10	0.01	0.0001	0.000001	0.00000001	0.0000000001	0.000000000001	0.00000000000001	0.0000000000000001
m	1000	0.001	0.000001	0.00000001	0.0000000001	0.000000000001	0.00000000000001	0.0000000000000001	0.000000000000000001
km	1000000	0.000001	0.0000000001	0.000000000001	0.00000000000001	0.0000000000000001	0.000000000000000001	0.00000000000000000001	0.0000000000000000000001

SEISMIC PARAMETERS

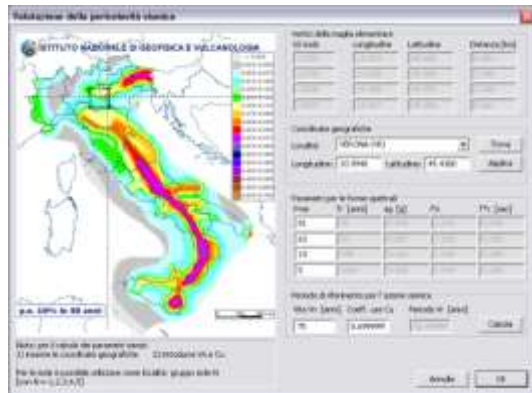


TABLE OF REBAR AREAS

[illegible]

TABLE OF STRAND AREAS

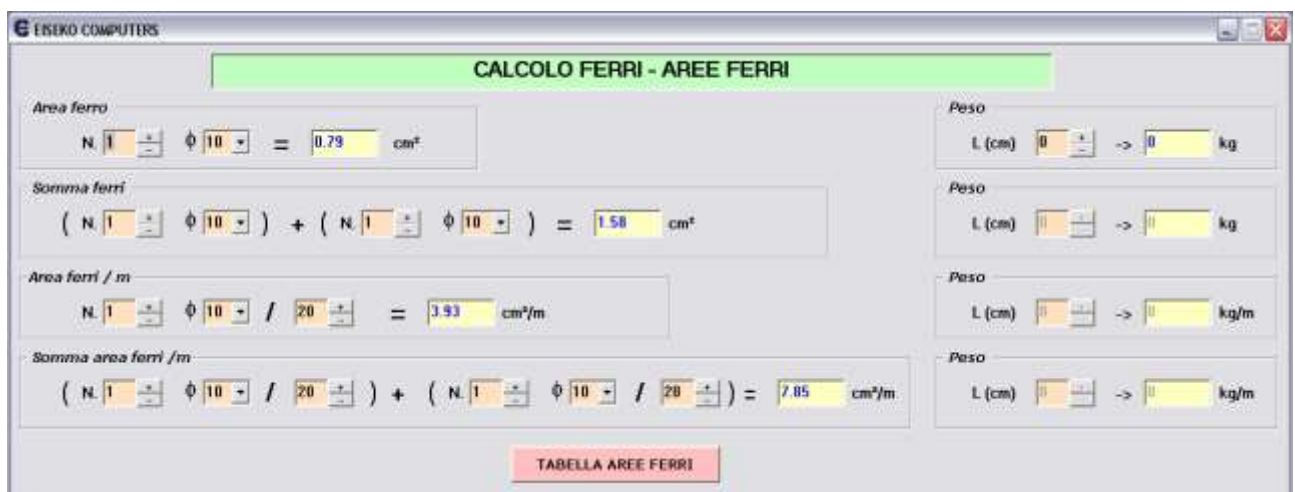
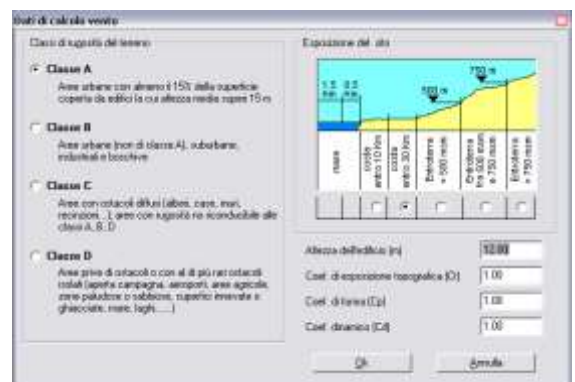
TABELLA TREFOLI				
TIPO	Diametro mm	Diametro Equivalenti mm	Sezione cm ²	Peso Kg/m
TREFOIA 3/3	6,5	2,19	0,212	0,167
TREFOLO 3/8"	9,50	3,14	0,52	0,409
TREFOLO 1/2"	12,50	3,88	0,73	0,73
TREFOLO 6/8"	15,2	5,30	1,33	1,03

CALCULATION OF REBAR AREAS

To calculate the area of one or more rebars, sum them and calculate the area of rebars/m

SNOW-WIND LOADS

for each Italian location
for any load situation



PREF-FAST

DESIGN,
VERIFICATION,
DRAWING AND
ESTIMATION

CUSTOM-DESIGNED PROGRAMS

**Eurocode 2 UNI EN 1992-1-1 version 2005
+ NTC 2018**

EISEKO COMPUTERS

PREF - FAST

Click on program image

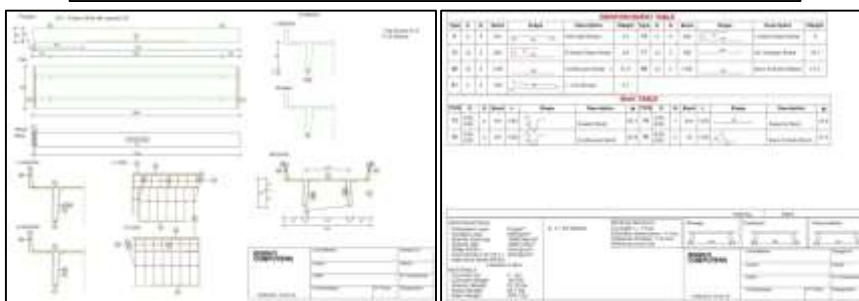


Exit

Within seconds you can verify all Rules changing from a formwork to another, changing loads and dimensions, adding and removing cast in place.

WORKSHOP DRAWING WITH QUANTITIES
Parametric Rebars and stirrups
Embeds – Database of lifting hooks

THE FASTEST!



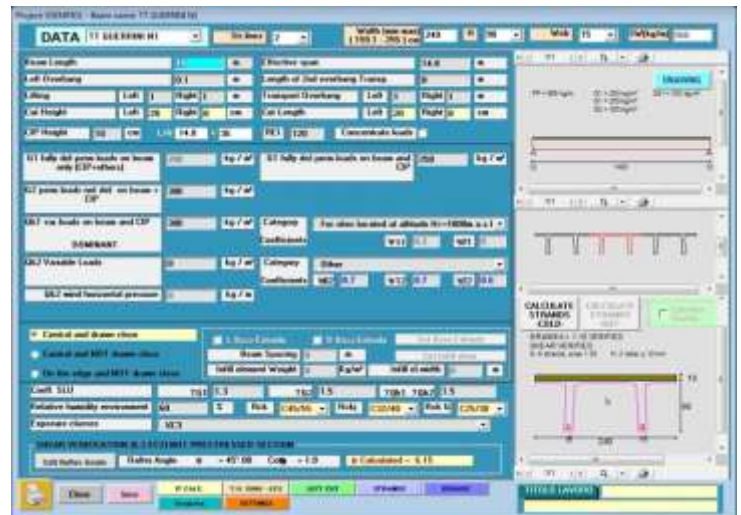
FIRE VERIFICATION

GERBER SUPPORT

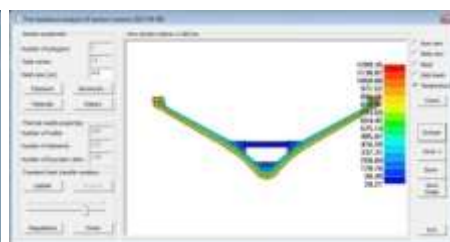
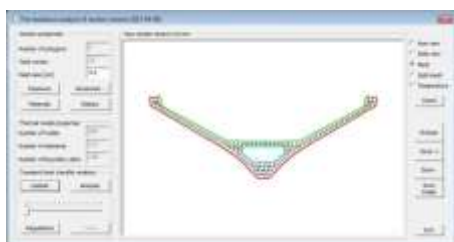
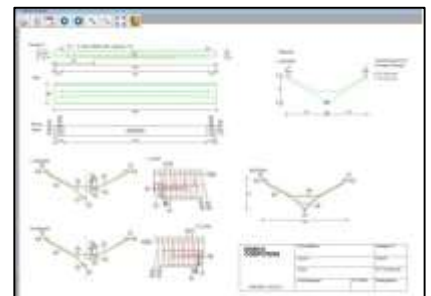
SEISMIC VERIFICATION

SNOW-WIND LOADS

-
- The figure consists of two screenshots from the AutoCAD Civil 3D software interface.
- The top screenshot shows the 'SECTION' view of a road profile. The main window displays a blue cross-section of a road with a central gutter and side slopes. A graph in the top right corner shows the elevation of the road surface and the ground. The 'SECTION' panel on the right contains various settings for the section view, including 'SECTION TYPE' (set to 'SECTION'), 'SECTION ELEVATION' (set to 'SECTION ELEVATION'), and 'SECTION WIDTH' (set to 'SECTION WIDTH').
- The bottom screenshot shows the 'SETTINGS FOR SECTION' dialog box. The 'SECTION' tab is active, showing a table of section data and a graph of elevation vs. stationing. The table has columns for 'STATION', 'ELEVATION', and 'SECTION TYPE'. The graph shows the elevation of the road surface and the ground. The 'SECTION' panel on the right contains various settings for the section view, including 'SECTION TYPE' (set to 'SECTION'), 'SECTION ELEVATION' (set to 'SECTION ELEVATION'), and 'SECTION WIDTH' (set to 'SECTION WIDTH').

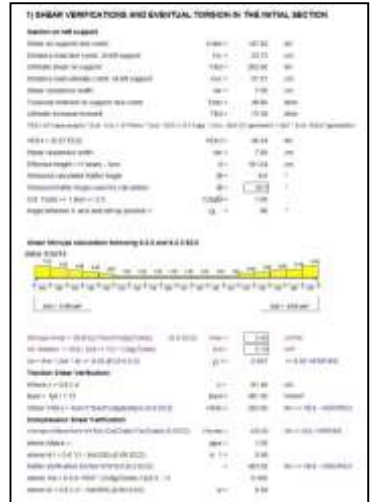
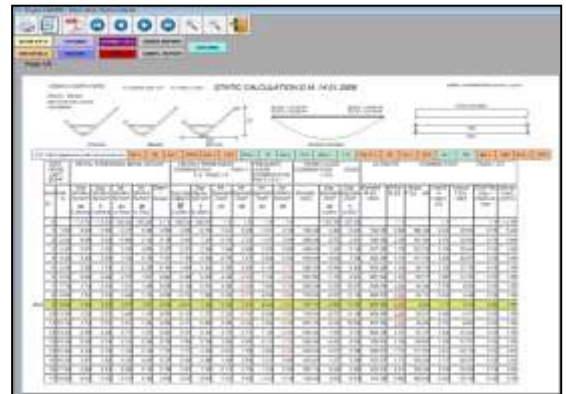
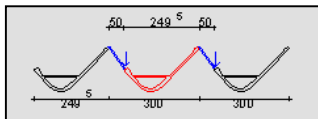
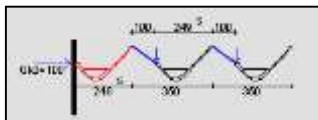
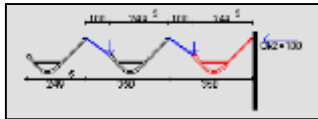


- [illegible]



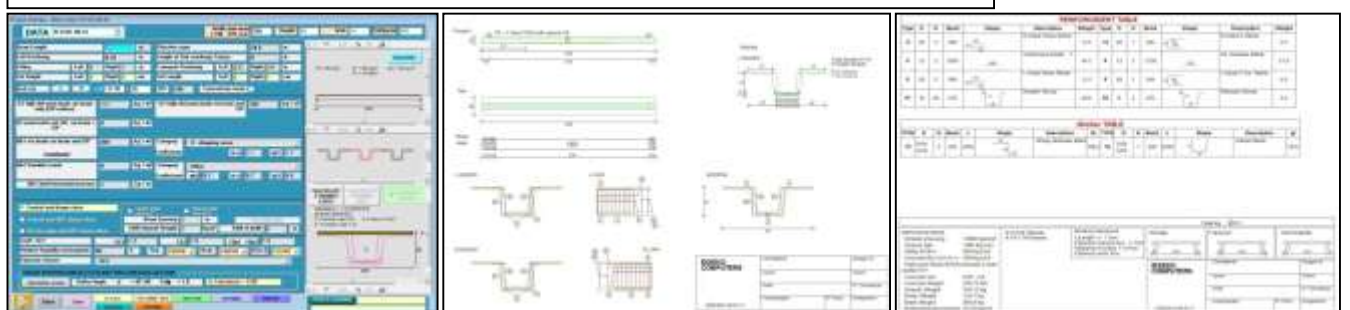
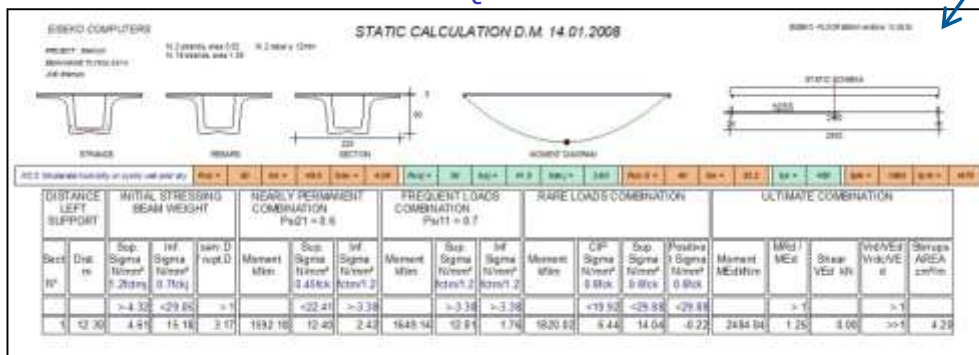
ASYMMETRIC ELEMENTS

- Automatic calculation of the torsional component of the loads, with the possibility to edit the eccentricity
- Calculation of central beams and edge beams (with or without wind force)
- Automatic shear center
- Automatic geometrical characteristics
- Asymmetrical Prestress verification with automatic calculation of torsion
- Automatic verification of support with and without the Gerber support, considering torsion too.
- Input of loads on beam using m^2



FLOOR BEAMS

- Calculation of a single section with different cast in place height, cut of the superior slab (left-right)
- Input of loads on beam using m^2
- Simplified selection of the section to use
- WORKSHOP DRAWING WITH QUANTITIES



EAVES

- Input of loads on beam using m^2
- Simplified selection of the section to use

[illegible]

PROJET - 4000 - 8000 NAME: JORDAN 17000 - 000 NAME:

Geometry

File Edit View Help

Choose from type

GORDON H GD


GORDON H GD

Length (mm) 10 Width (mm) 10

Import Save Close Print

PREF-FAST

INVERTED DOUBLE TEES

- Input of loads on beam using m^2
 - Simplified selection of the section to use
 - WORKSHOP DRAWING WITH QUANTITIES
 - CALCULATION OF THE ELEMENTS IN VARIOUS CONFIGURATIONS (drawn near, central with infill elements, edge elements with infill elements)
- 



Geometry

Choose form type

TT Roversio Alciati

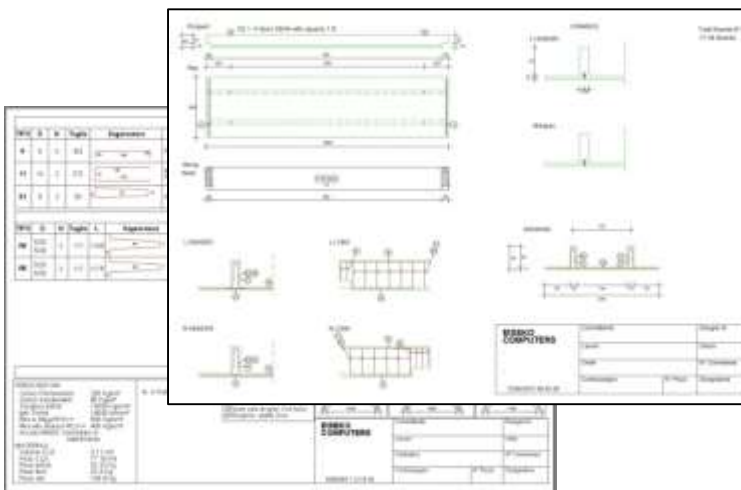
Lee length (cm)	250
Height (cm)	50
Web width (cm)	15
Slab thickness (cm)	5

SECTION SETTINGS

STANDARD LINE MINIMUM

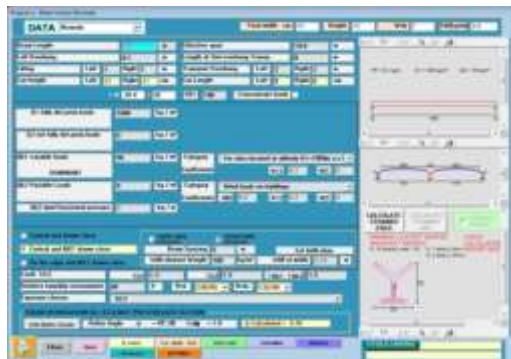
☒ LINE
☐ SLINES
☐ SLINES

COORDINATES Save Cancel

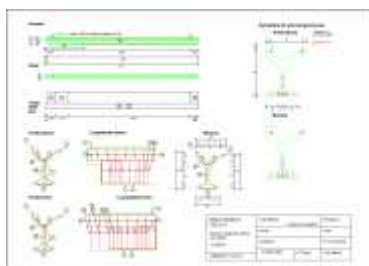
[illegible]

Y - H - GENERIC BEAMS

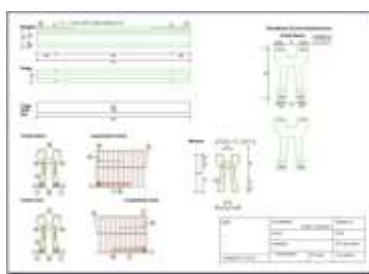
- CALCULATION OF THE ELEMENTS IN VARIOUS CONFIGURATIONS (drawn near, central with infill elements, edge elements with infill elements)
- Input of loads on beam using m^2
- Simplified selection of the section to use
- WORKSHOP DRAWING WITH QUANTITIES



COVERING BEAMS OF ANY SHAPE



Elemento	Descrizione	Quantità	Unità	Valore
1	Trave Y	1.00	m	1.00
2	Trave H	1.00	m	1.00
3	Trave I	1.00	m	1.00
4	Trave J	1.00	m	1.00
5	Trave K	1.00	m	1.00
6	Trave L	1.00	m	1.00
7	Trave M	1.00	m	1.00
8	Trave N	1.00	m	1.00
9	Trave O	1.00	m	1.00
10	Trave P	1.00	m	1.00
11	Trave Q	1.00	m	1.00
12	Trave R	1.00	m	1.00
13	Trave S	1.00	m	1.00
14	Trave T	1.00	m	1.00
15	Trave U	1.00	m	1.00
16	Trave V	1.00	m	1.00
17	Trave W	1.00	m	1.00
18	Trave X	1.00	m	1.00
19	Trave Y	1.00	m	1.00
20	Trave Z	1.00	m	1.00



Elemento	Descrizione	Quantità	Unità	Valore
1	Trave Y	1.00	m	1.00
2	Trave H	1.00	m	1.00
3	Trave I	1.00	m	1.00
4	Trave J	1.00	m	1.00
5	Trave K	1.00	m	1.00
6	Trave L	1.00	m	1.00
7	Trave M	1.00	m	1.00
8	Trave N	1.00	m	1.00
9	Trave O	1.00	m	1.00
10	Trave P	1.00	m	1.00
11	Trave Q	1.00	m	1.00
12	Trave R	1.00	m	1.00
13	Trave S	1.00	m	1.00
14	Trave T	1.00	m	1.00
15	Trave U	1.00	m	1.00
16	Trave V	1.00	m	1.00
17	Trave W	1.00	m	1.00
18	Trave X	1.00	m	1.00
19	Trave Y	1.00	m	1.00
20	Trave Z	1.00	m	1.00

BEAMS WITH NON-LINEAR SLOPE



PROGETTO: Esempio Mononave - NOME TRAVE: Cappella Mononave - COMMESSA: Esempio

Sezione: Cappella Mononave - Punt. 5 - PP1g/m 471 PP1g/m 16 L. 100 L. 100 L. 100

Lunghezza Trave: 24.4 m Luce di calcolo: 23.2 m

Sollecitazione: Sx 1 Dx 1

Lunghezza min. sezione testata: 14.8 m Lunghezza min. sezione centrale: 15 m

Altezza Calce: 71.3 m Disaccanto Calce a Sinistra: 8 m

Altezza sezione Sup.: Sx 1 Dx 1

Carichi Concentrati:

Intensità Travi SX: 5 m Intensità Travi DX: 5 m

Lunghezza sollec. SX: 5 m Lunghezza sollec. DX: 5 m

G1 Sovraccarichi Permanenti pesantemente definiti: 10 kg/m

G2 Sovraccarichi Permanenti NON pesantemente definiti: 0 kg/m

GK1 Sovraccarichi accidentali: 10 kg/m

GK2 Spinta orizzontale vento: 0 kg/m

Coefficienti SLU: 1.35 1.35 1.35

Unif. rel. ambiente: 60 Rck: C50/60 Rck: C40/50 Rck: C30/37

Classe di esposizione: XC4 Sottoposto a cicli acqua-pioggia

VERIFICHE A TAGLIO (S.2 EC2) SEZIONE NON PRECOMPRESSA:

MODIFICA ANGOLI: Angolo Puntone: $\theta = 45^\circ$ Catg $\theta = 1.8$ Calcolato = 37.3

Calcola

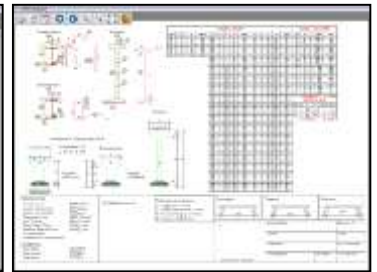
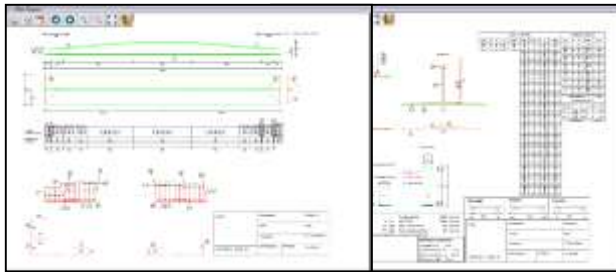
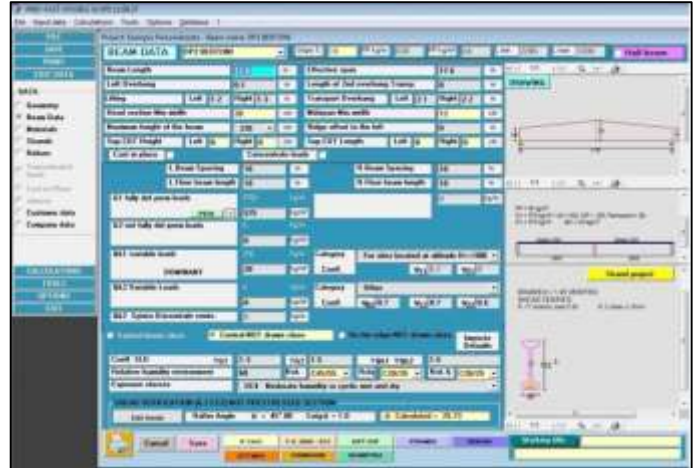
- CALCULATION OF THE ELEMENTS IN VARIOUS CONFIGURATIONS (central or edge elements)
- Input of loads on beam using m^2
- Simplified selection of the section to use

GENERAL COVERING BEAMS with NON LINEAR variation of height

DOUBLE SLOPE BEAMS

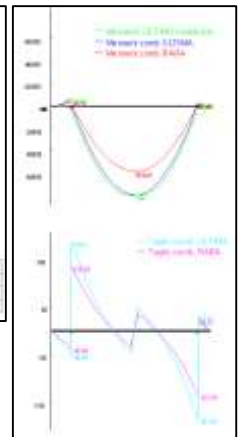
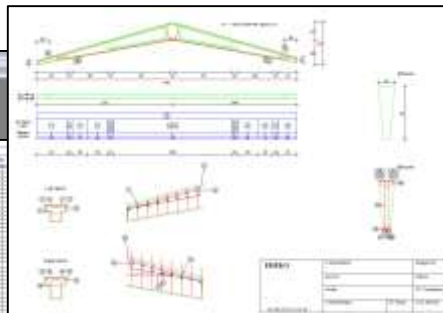
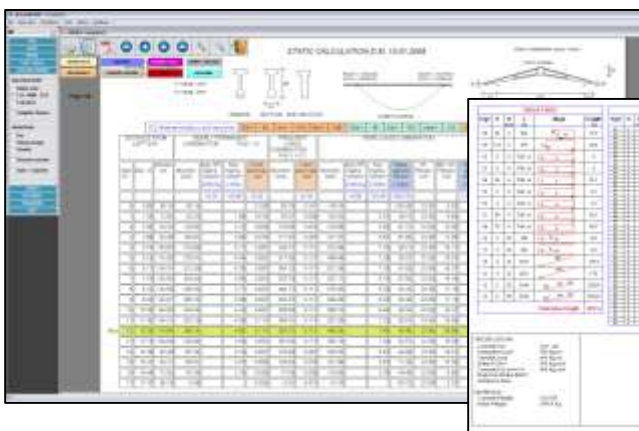
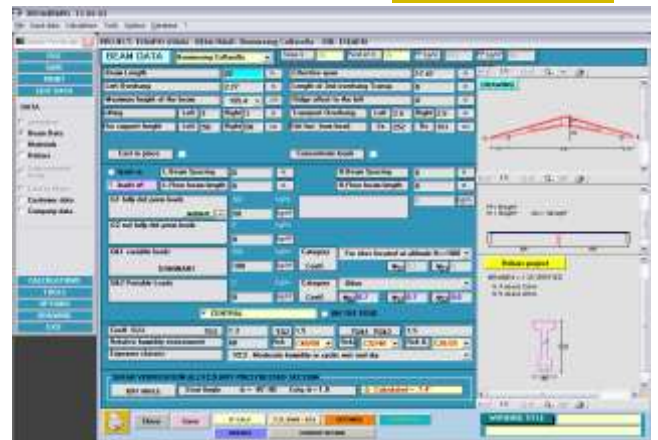
Custom program for the calculation of DOUBLE SLOPES with or without the inferior slab

- CALCULATION OF THE ELEMENTS IN VARIOUS CONFIGURATIONS
- Calculation of the half beam
- Superior peak flat
- Asymmetric beams
- Creation of a database of the most used roof elements for the automatic calculation of G1, so that the user doesn't need to look through weight tables each time
- Input of loads on beam using m^2
- Simplified choice of the element
- WORKSHOP DRAWING WITH QUANTITIES



BOOMERANG

- CALCULATION OF THE ELEMENTS IN VARIOUS CONFIGURATIONS
- Editing of a database of the most used roof elements for the automatic calculation of G1, so that the user doesn't need to look through weight tables each time
- WORKSHOP DRAWING WITH QUANTITIES
- Input of loads on beam using m^2
- Simplified choice of the element
- Superior peak flat
- Asymmetric beams



EXAMPLE OF PREF MAIN FORM

PROJECT: Esempio - BEAM NAME: TIROVESCIO - JOB: Esempio

BEAM DATA REVERSE T

Beam Length	10	m	Effective span	9.8	m
Left Overhang	0.1	m			
Lifting	Left 1	m	Transport Overhang	Left 1	m
CUT Height	Left 0	cm	CUT Length	Left 0	cm

☒ Cast in place

☒ Concentrate loads

☒ Crane

☒ Crane Loads

L-Beam Spacing	10	m	R-Beam Spacing	10	m
L-Floor beam length	9.4	m	R-Floor beam length	10	m
G1 fully def.perm. loads on beam only (CIP+others)	4030	kg/m	G1 fully def.perm. loads on beam and CIP	2000	kg/m
G2 perm. loads not def. on beam + CIP	400	kg/m		200	kg/m
Qk1 var. loads on beam and CIP	4000	kg/m			
Qk2 Variable Loads	400	kg/m			

Category Coeff.

Category	Coef.	Category	Coef.
DOMINANT	0	Crane EN 1991-3	0
	0		0

For sites located at altitude H<=1000m

Load Eccentricity	0	cm	Torsion Permanent load	0	%
add hanging load to stirrups			Variable torsion load	0	%
			Kp	5000	Its track incidence

Category Coeff.

Category	Coef.	Category	Coef.
	0		0
	0		0

Coef. SLU

YG1	1.3	YG2	1.5	YQk1	YQk2	1.5
-----	-----	-----	-----	------	------	-----

Relative humidity environment

Z	60	Rck	C28/35	Rck	C20/25
---	----	-----	--------	-----	--------

Exposure classes

XC3	Moderate humidity or cyclic wet and dry
-----	---

SHEAR VERIFICATION (6.2 EC2) NOT PRESTRESSED SECTION

EDIT ANGLE

Strut Angle	$\theta = 45^\circ 00'$	Colg $\theta = 1.0$	Calculated = 6.4°
-------------	-------------------------	---------------------	--------------------------

Close Save

BEAM DATA REVERSE T

Beam Length	10	m	Effective span	9.8	m
Left Overhang	0.1	m			
Lifting	Left 1	m	Transport Overhang	Left 1	m
CUT Height	Left 0	cm	CUT Length	Left 0	cm

☒ Cast in place

☒ Concentrate loads

☒ Crane

☒ Crane Loads

L-Beam Spacing	10	m	R-Beam Spacing	10	m
L-Floor beam length	9.4	m	R-Floor beam length	10	m
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G2 perm. loads not def. on beam + CIP	400	kg/m		200	kg/m
Qk1 var. loads on beam and CIP	4000	kg/m			
Qk2 Variable Loads	400	kg/m			

Category Coeff.

Category	Coef.	Category	Coef.
DOMINANT	0	Crane EN 1991-3	0
	0		0

For sites located at altitude H<=1000m

Load Eccentricity	0	cm	Torsion Permanent load	0	%
add hanging load to stirrups			Variable torsion load	0	%
			Kp	5000	Its track incidence

Category Coeff.

Category	Coef.	Category	Coef.
	0		0
	0		0

Coef. SLU

YG1	1.3	YG2	1.5	YQk1	YQk2	1.5
-----	-----	-----	-----	------	------	-----

Relative humidity environment

Z	60	Rck	C28/35	Rck	C20/25
---	----	-----	--------	-----	--------

Exposure classes

XC3	Moderate humidity or cyclic wet and dry
-----	---

SHEAR VERIFICATION (6.2 EC2) NOT PRESTRESSED SECTION

EDIT ANGLE

Strut Angle	$\theta = 45^\circ 00'$	Colg $\theta = 1.0$	Calculated = 6.4°
-------------	-------------------------	---------------------	--------------------------

Close Save

BEAM DATA

CAST IN PLACE

SELECT m²-m LOAD INPUT

LOAD DATA

ECCENTRICITY - HANGING LOAD

COEFFICIENTS & MATERIALS

ANGLES FOR THE SHEAR VERIFICATION

PRINT FORM

SELECT FORMWORK TYPE

CONCENTRATED LOADS

VIEW GEOMETRY AND SELF-WEIGHT OF BEAM

CRANE LOADS

L/H RATIO CHECK

WORKSHOP DRAWING

STATIC SCHEMA with loads, CIP and dimensions

COVERING SCHEMA

AUTOMATIC DESIGN OF STRANDS

CHECK RESULTS

SECTION SCHEMA with dimensions, strands, rebars, cip, barycenter

DESIGN DATA

DEFAULT SETTINGS

GERBER SUPP.CALC.

GEOMETRY

EDIT STRANDS-REBARS

STIRRUP DESIGN

TECHNICAL SUPPORT



HELPFULNESS AND FLEXIBILITY

Eiseko Computers provides technical support together with programs, because each single customer has the right to reach immediately all the answers to any question, from a simple information to a solution for a calculation or a technical problem.

People who develop software, both engineers and software experts, are available for our customers for trouble fixing, explanation of procedures, information or tips: how to better use the software, which Rules are used and how, why you get a particular result, but also support for installation or updates.

Supported languages: Italian, English, Spanish.



045.80.31.894
045.87.81.430



support-eiseko



ASSISTENZA REMOTA



support@eiseko.com



SUBSCRIPTION



We studied a particular approach system for our software: rather than buying a single module (prestressed beams, vibrated beams, hollowcores, etc..) or a single update, we offer the use of all the programs with a Subscription with a little annual fee. With this contract you have a right to all the updates and new releases of all the programs and to the technical support.

More set of subscriptions available: with or without fire verification add-in, with a little number of main programs up to the full set.

CONTACT US FOR A FREE CUSTOM QUOTE

EISEKO COMPUTERS PROGRAMS	
Constant H prestressed beam with pre-tensed and post- tensed strands	
Variable H prestressed beam	
HOLLOWCORES	
Prestressed R, L, Reverse T beam, T beam, I beam and PREDALLES with Torsion and Gerber support, CRANE and DRAWING	
Constant H REINFORCED CONCRETE BEAM	
Variable H REINFORCED CONCRETE BEAM	
PREF-FAST: CUSTOM PROGRAMS WITH DESIGN, CHECK AND DRAWING OF ANY KIND OF ELEMENT with ANY KIND OF SLOPE.	
✓ Boomerangs	✓ Eaves
✓ Shed (ASYMMETRIC BEAMS)	✓ Double slope prestressed beams
✓ Double Tees	✓ Double slope reinforced conc. beams
✓ Inverted Double Tees	✓ Slabs
✓ WINGSPANS	✓ Floors
✓ Generic covering beams Y, H...	✓ Other programs on demand
✓ Beams with non linear slope	

OTHER PROGRAMS AVAILABLE UPON REQUEST

You will have:

- ✓ Updates from our website of all the programs under subscription
- ✓ Support via internet remote connection
- ✓ Support via Email
- ✓ Support via Skype
- ✓ Support by phone and in our offices
- ✓ Possibility to ask for new functionality and enhancements

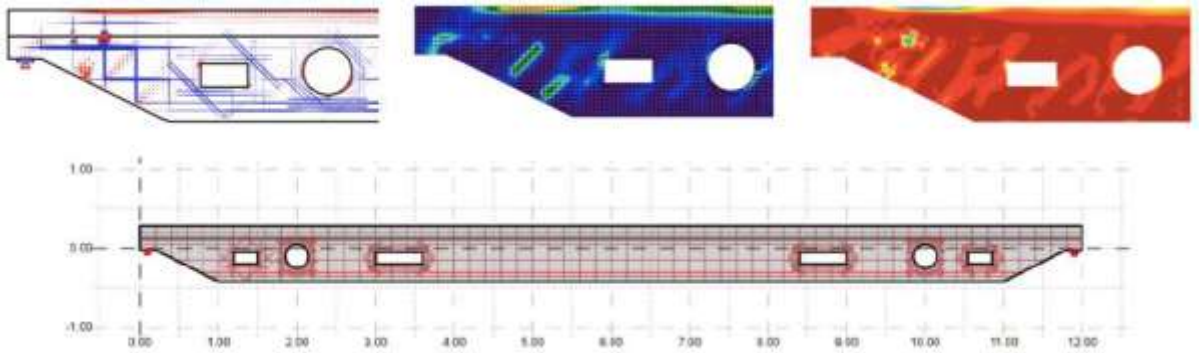
DOWNLOAD FREE DEMO FROM OUR WEBSITE

www.eiseko.com

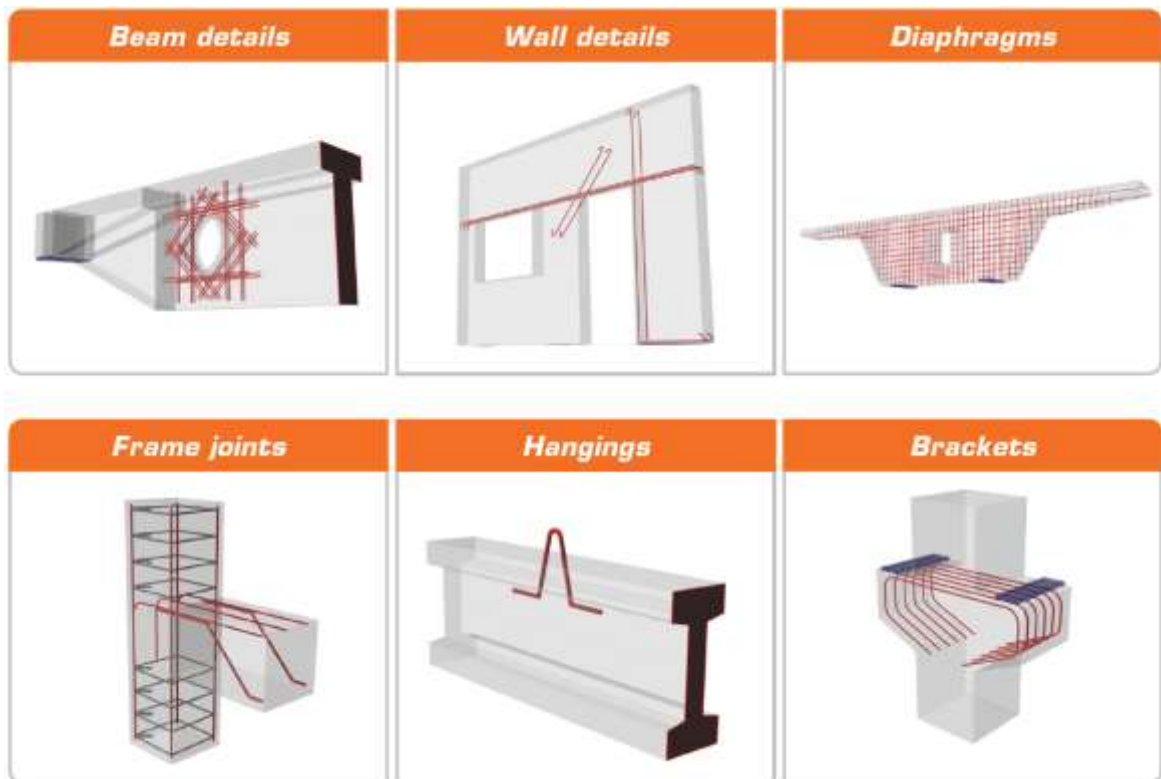
IDEA StatiCa DETAIL



EISEKO presents the new IDEA software to design and check concrete details and walls. With this tool, engineers can break the limits of standard design tools to save time and optimize the material usage. Clear pass/fail checks according to the code are available in minutes, as well as complete output reports.



CALCULATION OF DISCONTINUITY REGIONS



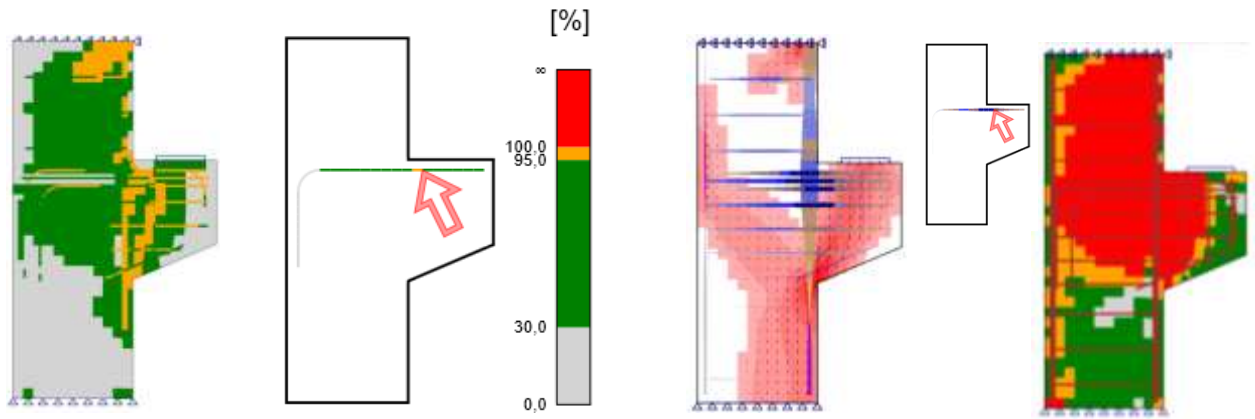
ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

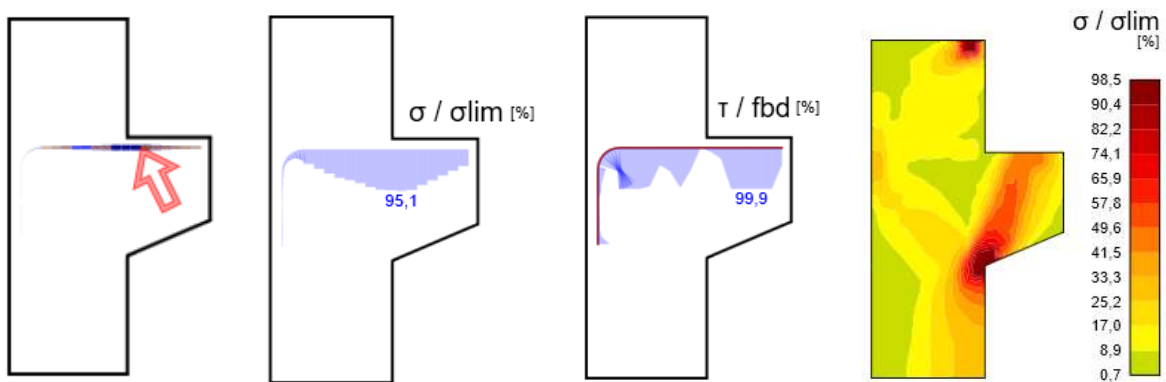


**IN-DEPTH
CHECKS AND
SOFTWARE
VALIDATION**

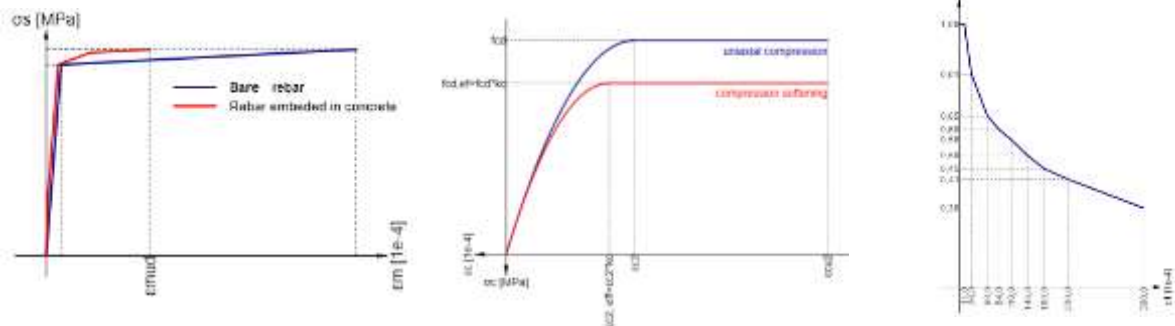
ULTIMATE LIMIT STATE + SERVICEABILITY LIMIT STATE



Reinforcement and code-check of all types of concrete walls, beams, and details according to the code, in minutes



Overall solution, detailed results



IDEA Statica DETAIL IDEA StatiCa Detail deals efficiently with all parts of structure also known as discontinuity regions such as walls, dapped ends, openings, hangings, brackets, and areas above supports. It provides precise checks of concrete and reinforcement strength, stresses and strains. These results are clearly visualized for better understanding of details of structures.

ANY TOPOLOGY

No limits in type or shape of detail. Every type can be easily geometrically defined, reinforced and calculated as your project demands.

ANY LOADING

The overall check of the detail takes into account interactions of internal forces in a plane. Engineer stay on the safe side all the time...

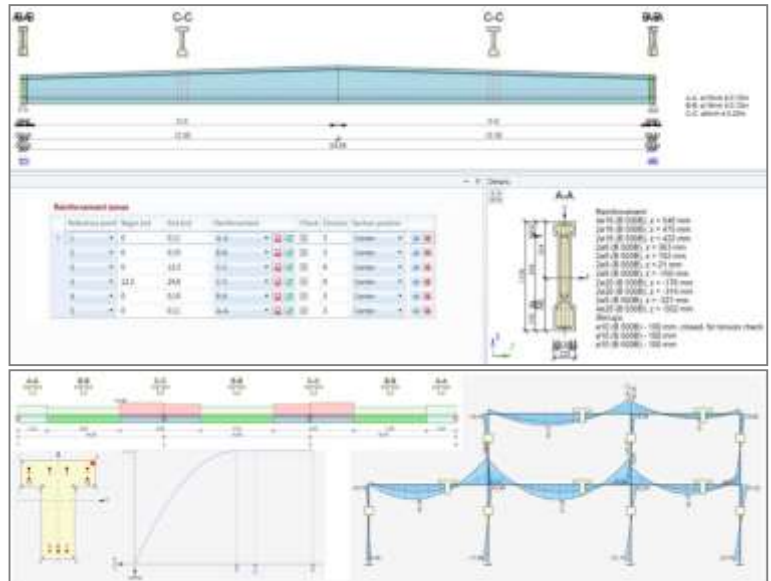
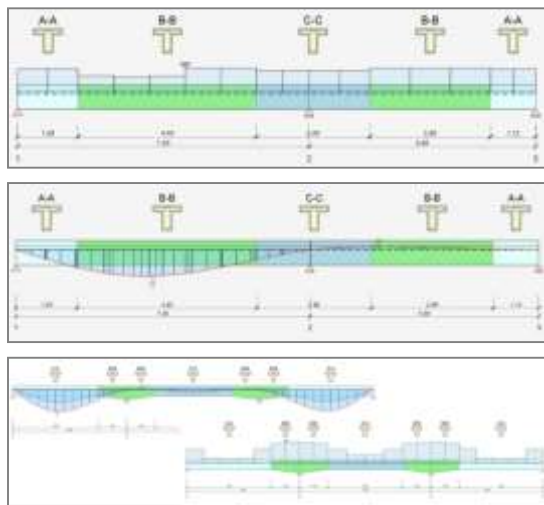
IN MINUTES

The whole design and check process is kept short enough to be a part of everyday work of structural engineers and fabricators all around the world.

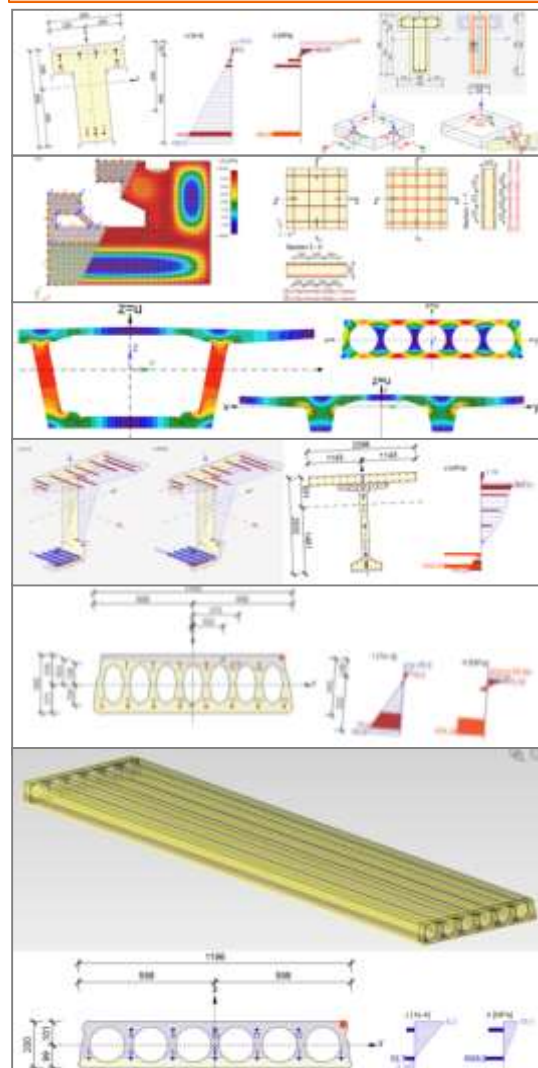
IDEA StatiCa Concrete & Prestressing

3D software for the design, check and drawing of
**reinforced concrete elements and
pre- and post-tensed elements**

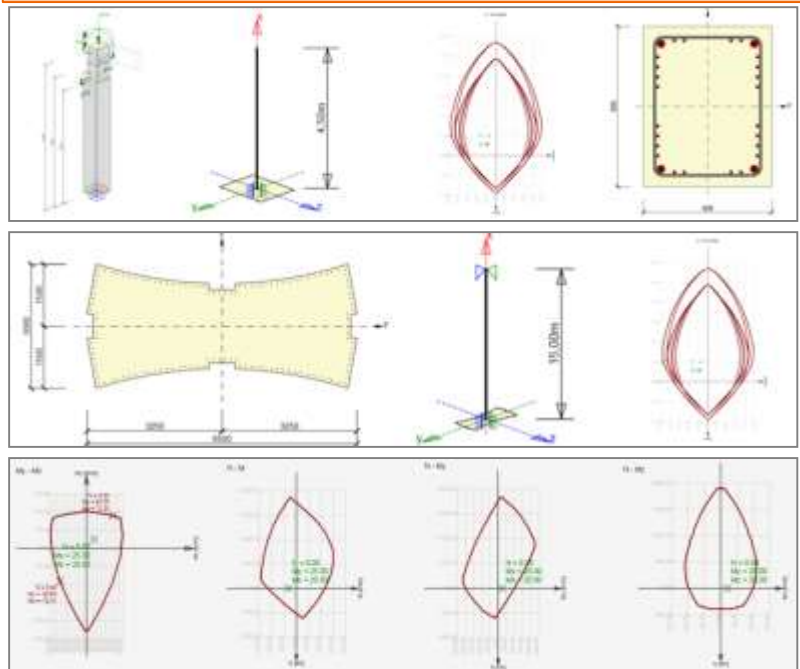
CONTINUOUS BEAMS



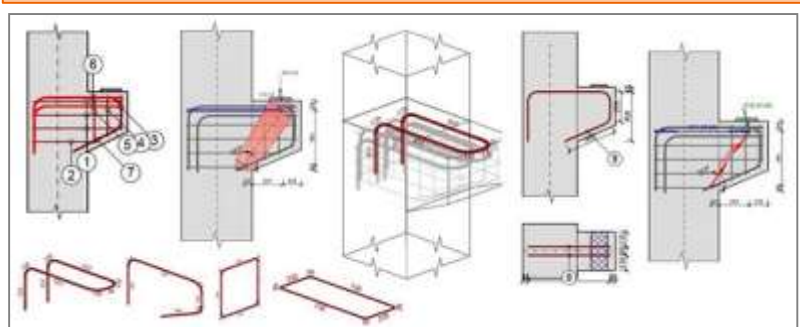
GENERIC SECTIONS



COLUMNS

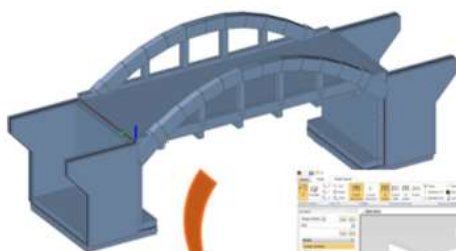
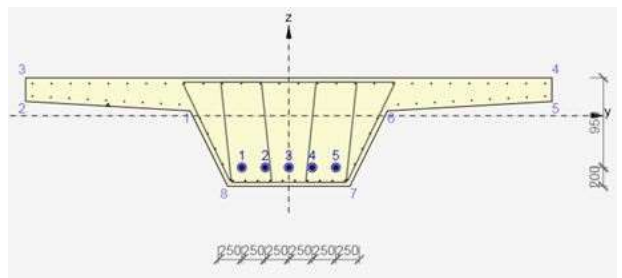
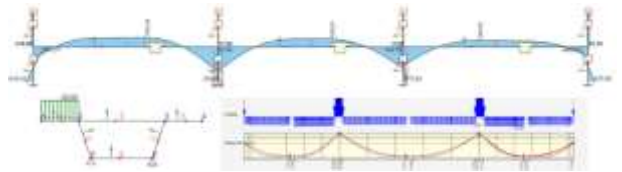
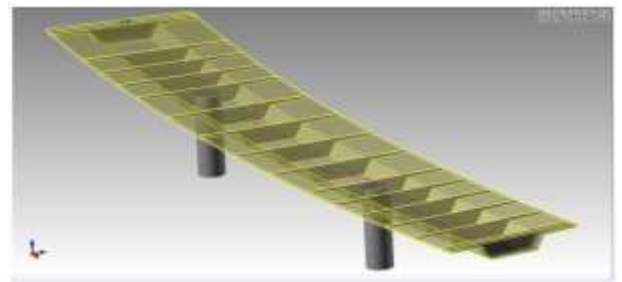
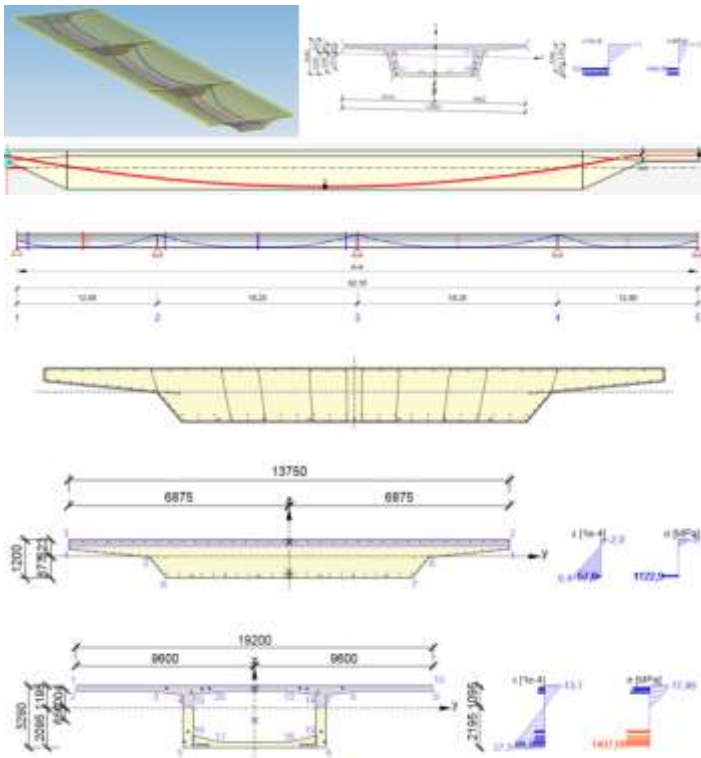
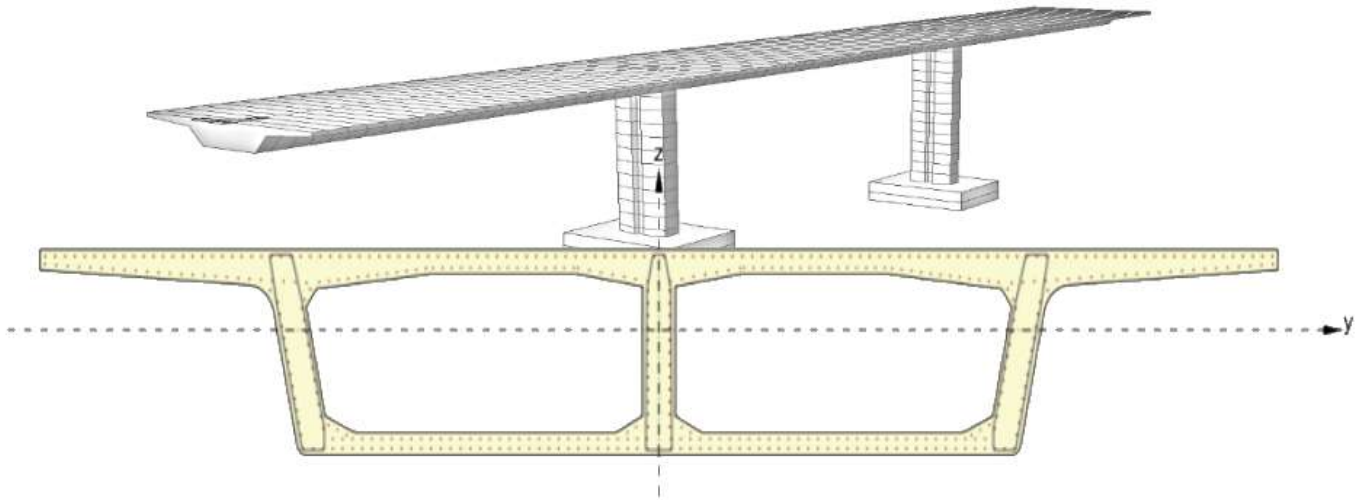


BRACKETS

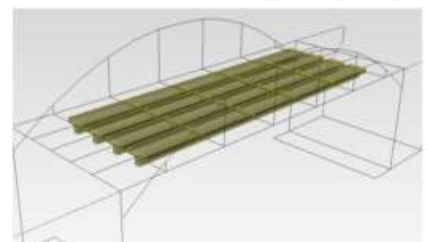
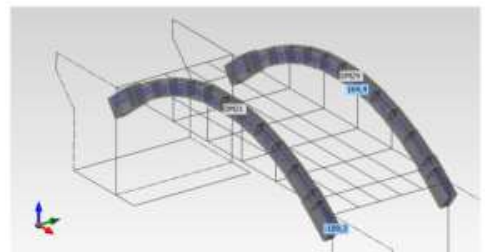


BRIDGE CHECKS

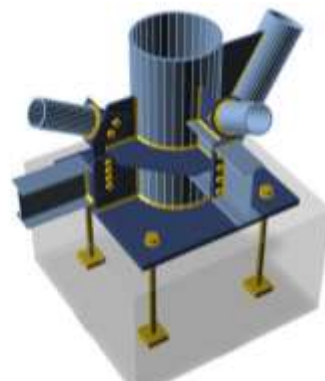
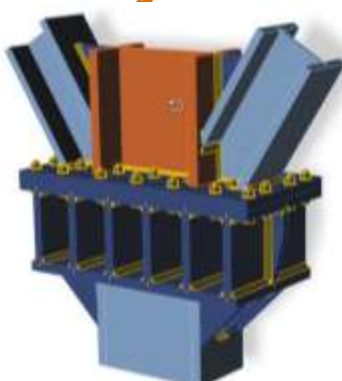
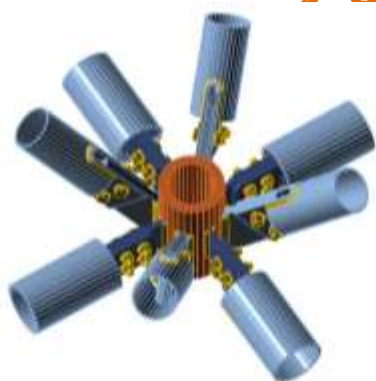
WITH DATA IMPORT FROM FEM MODELS



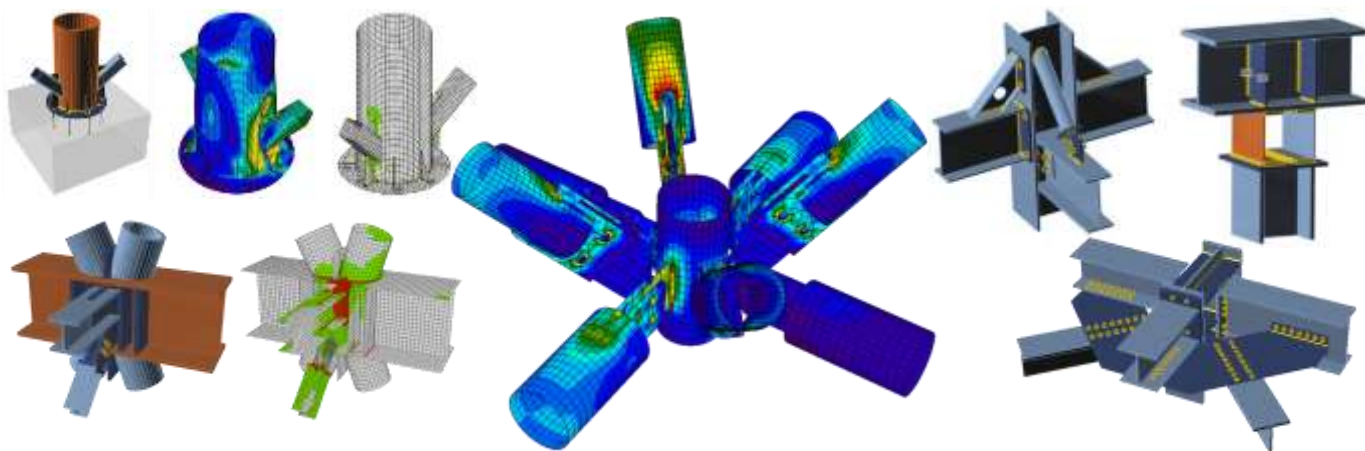
3D MODEL
SCIA ENGINEER



software for the design of steel connections of
any geometry and any load



GENERAL - SIMPLE AND FAST - EASY



Eurocode EN 1993-1-8, American code AISC, Canadian CISC and Australian code

Trimble
Tekla
Structural Designer

Tekla
Structures

technisoft
MODESt

Axis VM

CONSTEEL

MIDAS

AUTODESK
A ADVANCE STEEL

AUTODESK
R ROBOT STRUCTURAL
ANALYSIS PROFESSIONAL

AUTODESK
R REVIT

Bentley
STAAD.Pro

SCADA Pro
Structural Analysis & Design

ADVANCE
G DESIGN

ETABS

SAP2000

IDEA StatiCa BIM

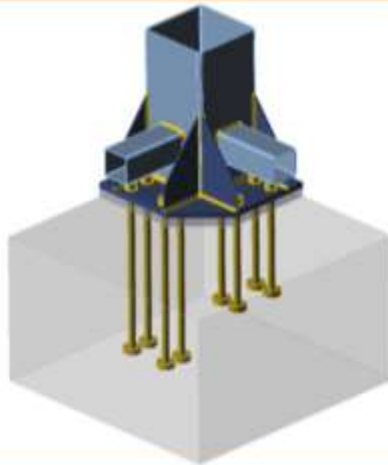
RFEM
RSTAB

SCI A
ENGINEER

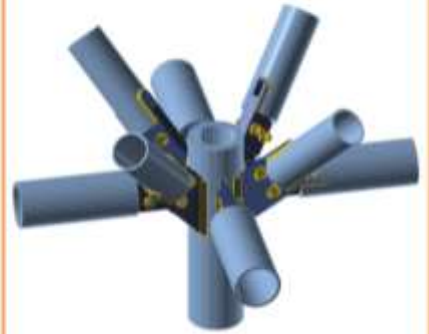
2D FRAMES & TRUSSES



FOOTINGS, ANCHORING



3D FRAMES & TRUSSES



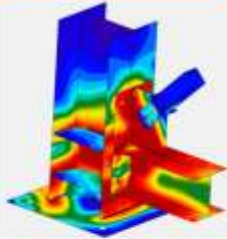
Overall check

According to various national design codes



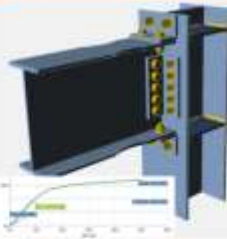
Stress/strain analysis

FE model of steel joint is compared automatically



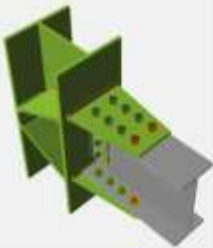
Stiffness analysis

Rotational or transversal stiffness of any connection



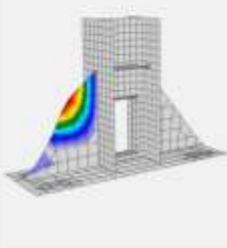
Member capacity design

Systemic check of non-dissipative connections



Buckling analysis

Local buckling effects and critical load factors



Design joint resistance

Maximal possible loads, reserve in joint capacity

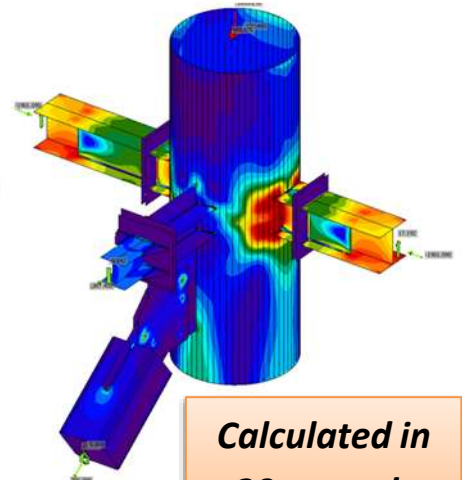
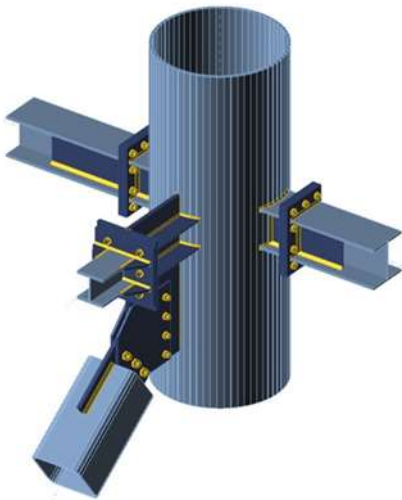


- ✓ Joints with various numbers of beams in multiple directions and loads
- ✓ Analysis model created according to manufacturing operations used – cuts, plates, stiffeners, ribs, openings, cleats, welds, bolts, etc.
- ✓ Automatic generation of joint's FE model, user does not handle with FEA
- ✓ Stiffness analysis of any kind of connection
- ✓ Efficient FEA solver delivers result faster than current methods
- ✓ More than 90% of calculations is national-code independent
- ✓ Calculation of internal stress/forces in joints based on elastic/plastic FE analysis
- ✓ Clear information about behavior of the joint/connection
- ✓ Local buckling analysis of steel joint, critical load factor
- ✓ Wide range of predefined joint/connection templates; easy definition of user templates

ANY GEOMETRY

ANY LOADING

IN MINUTES



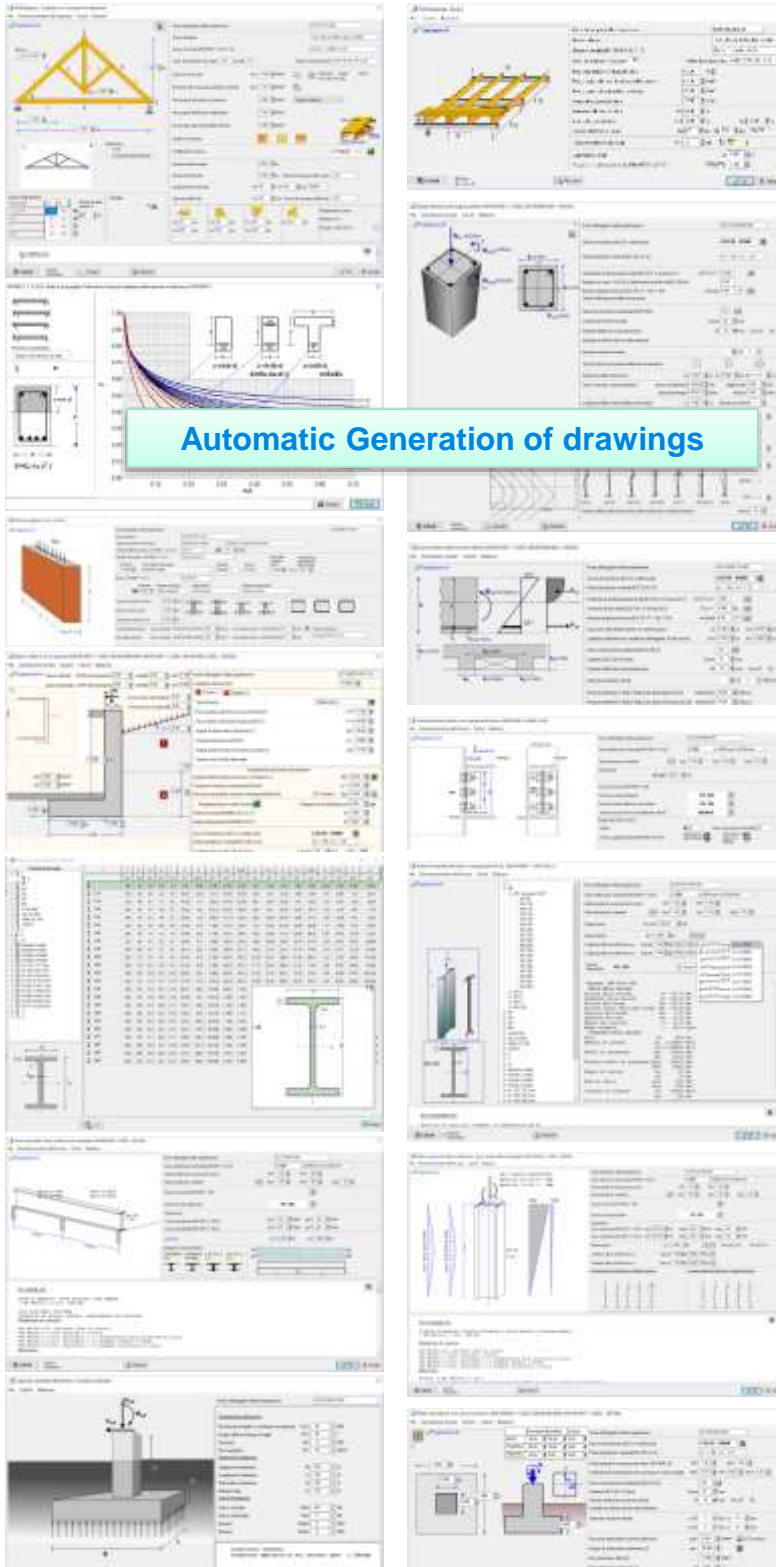
**Calculated in
20 seconds**

software for the design, check and drawing of all structural Eurocodes



Eurocodes EC0-EC1-EC2-EC3-EC4-EC5-EC6-EC7-EC8

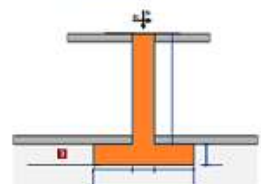
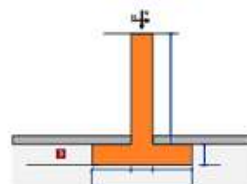
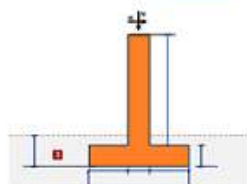
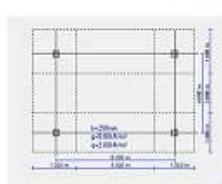
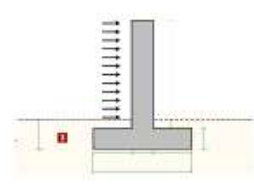
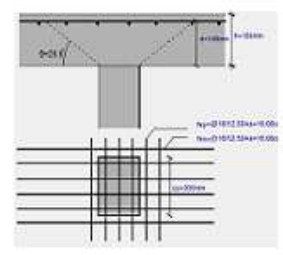
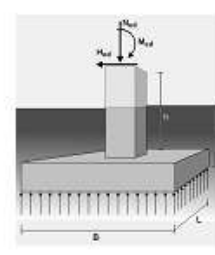
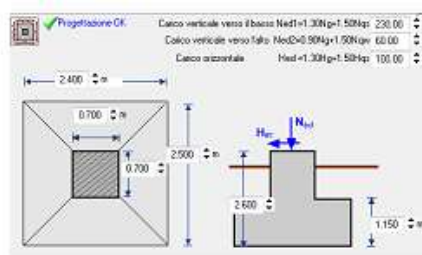
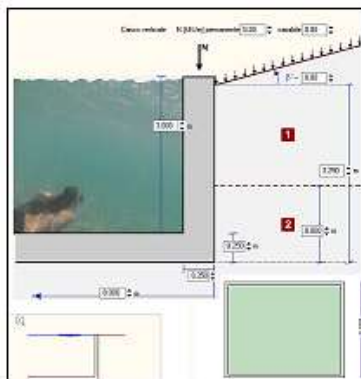
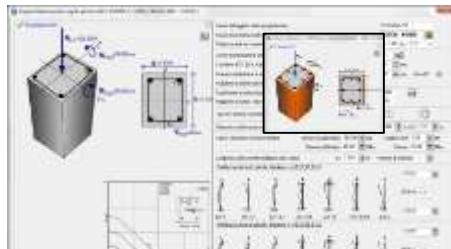
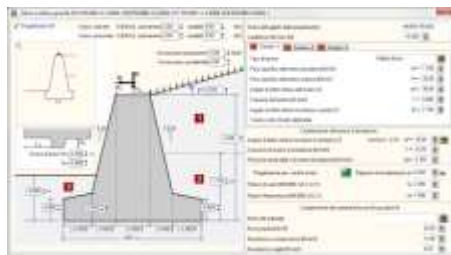
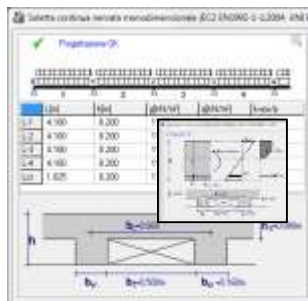
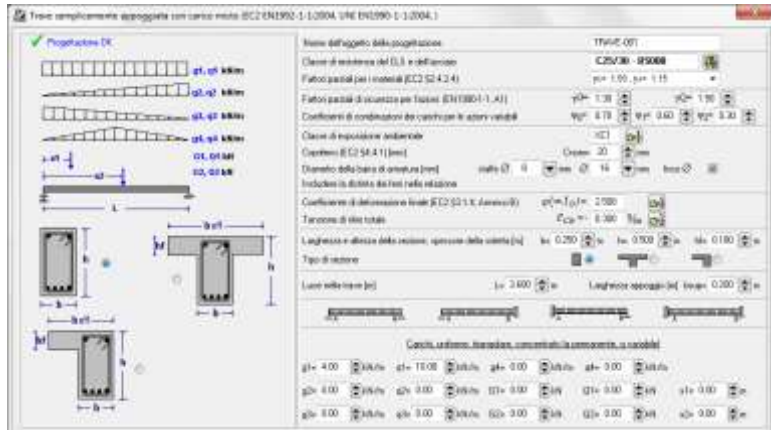
EUROCODEexpress is an integrated and comprehensible software including all the structural Eurocodes. It is a work and studying companion for all the Eurocodes, from Eurocode 0 to Eurocode 8.



- ✓ EC0
 - Basic design principles and verification equations
 - Partial safety factors
 - Load combinations
 - Material factors
- ✓ EC1
 - General action
 - Category of use
 - Imposed loads on building parts
 - Snow loads and Wind Loads
- ✓ EC2
 - Reinforced concrete slabs
 - Reinforced concrete beams
 - Reinforced concrete columns
 - Design charts of Reinforced concrete
- ✓ EC3
 - Tables and graphs from Eurocode 3
 - Steel sections
 - Resistance of steel cross section
 - Design of beams
 - Design of columns
 - Design of bolted connections
- ✓ EC4
 - Steel-Concrete composite floor
 - Timber concrete composite floors
- ✓ EC5
 - Design of cross-sections in ULS
 - Design of timber connections
 - Design of timber beams
 - Design of timber floors
 - Design of timber roofs
- ✓ EC6
 - Mechanical properties of masonry
 - Eurocode 6 design charts
 - Eurocode 6 Strength
 - Masonry Design
- ✓ EC7
 - Eurocode 7 parameters
 - Soil bearing capacity
 - Spread footings
 - Retaining walls
- ✓ EC8
 - Elastic response spectrum
 - Design response spectrum
- ✓ Structural analysis
 - Helpful tables for structural analysis
 - Beams of one span
 - Moments of inertia of common cross sections
 - Tables for Beams diagrams V (shear) M, (moment)
 - Tables for Beams diagrams V (unit load)
 - Tables for end forces of beams (Cross method)
 - Tables for beams deflections
 - Tables for areas and centroids of diagrams
 - Tables of Mohr's integral

THE ONLY PROGRAMMS WITH NO NEED OF MAUAL CHECK! ALL DESIGN STEPS AND FORMULAS ARE EXPLAINED

software for the design, check and drawing of concrete structural elements

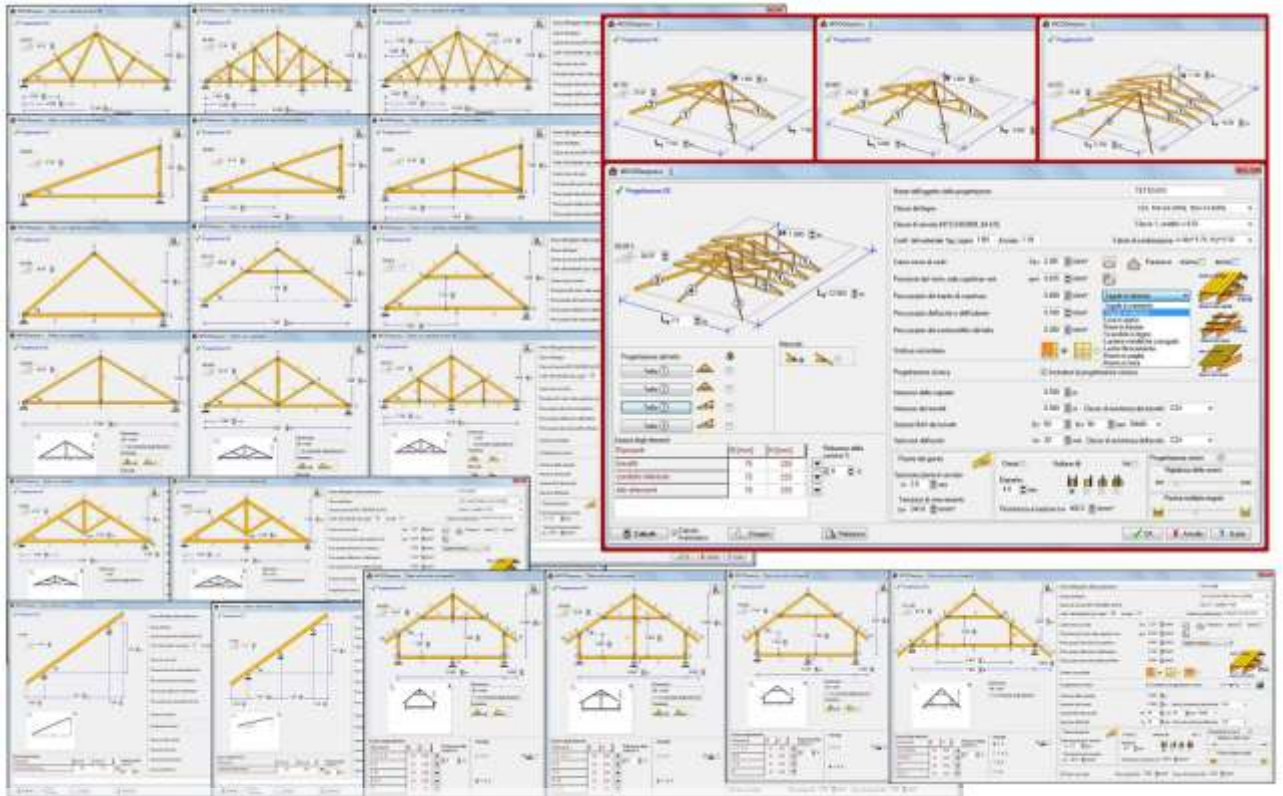


EUROCODES

- ✓ Solid and ribbed slabs
- ✓ T and Rectangular Beams
- ✓ Columns
- ✓ Spread Footings, Fundaments of Steel columns
- ✓ Corbels and supports
- ✓ Deep beams
- ✓ Retaining walls of gravity or cantilever type
- ✓ Flat slab, Punching shear, Flat slab design
- ✓ Foundation Bearing resistance
- ✓ Water basins
- ✓ Basement and Bearing walls
- ✓ Walls with horizontal distributed load
- ✓ Reinforced concrete design charts
- ✓ Design of reinforced beams
- ✓ CAD drawings with reinforcement, rebar table
- ✓ Complete reports
- ✓ Choice of National Annexes-Parameters-Design Rules
- ✓ Engineering tools

THE ONLY PROGRAMMS WITH NO NEED OF MAUAL CHECK! ALL DESIGN STEPS AND FORMULAS ARE EXPLAINED

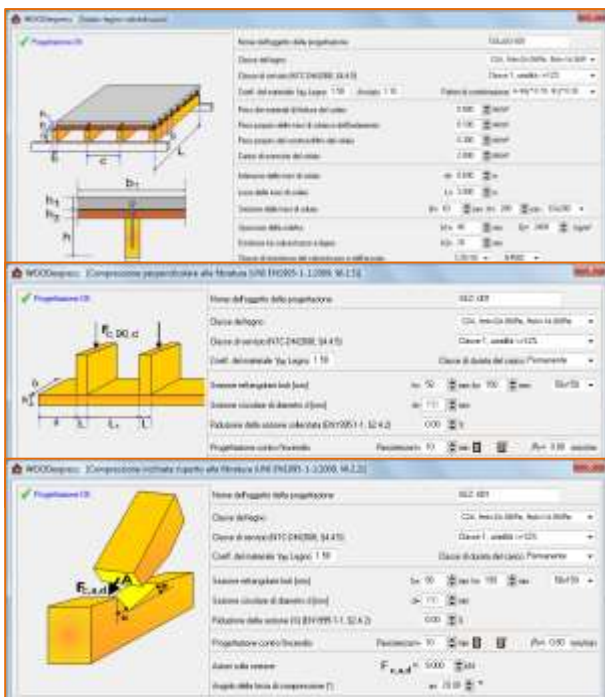
software for the design, check and drawing of timber structural elements



User can edit material properties, loads, code parameters and sections according to National Annexes needs.



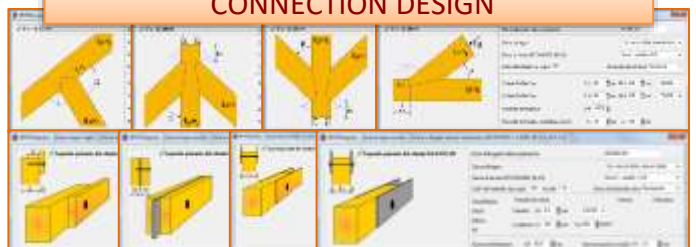
WIDE RANGE OF DOUBLE SLOPE BEAMS AVAILABLE



EUROCODES

Calculation reports, dynamically created changing input data, show in detail all the calculations and the design steps, with all the references to the code prescriptions. In case design is not verified, a message will warn user.

CONNECTION DESIGN

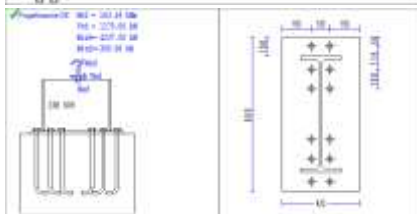
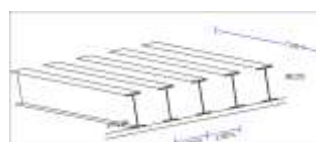
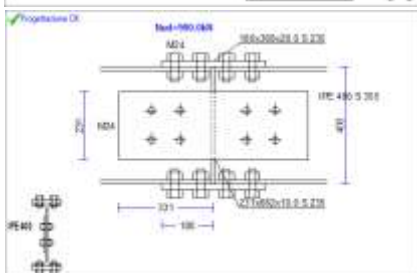
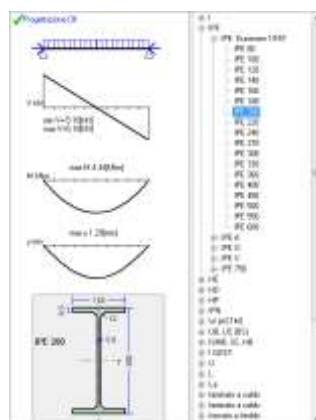
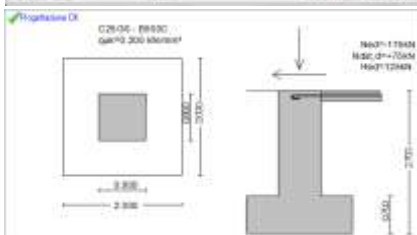
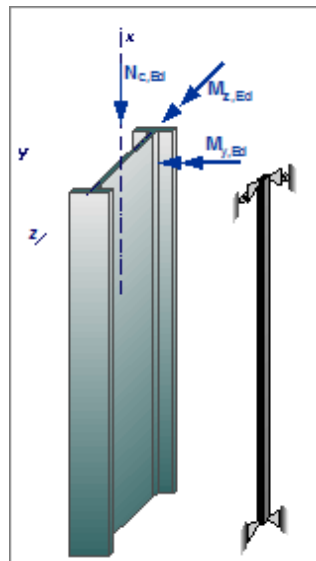
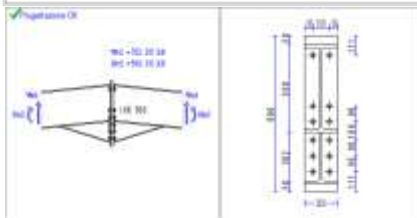
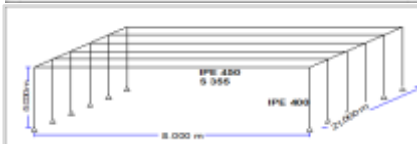
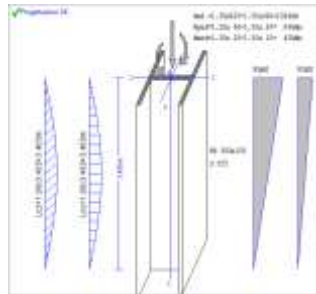
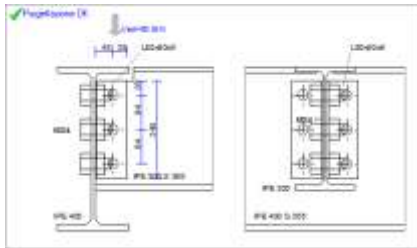


THE ONLY PROGRAMS WITH NO NEED OF MAUAL CHECK! ALL DESIGN STEPS AND FORMULAS ARE EXPLAINED

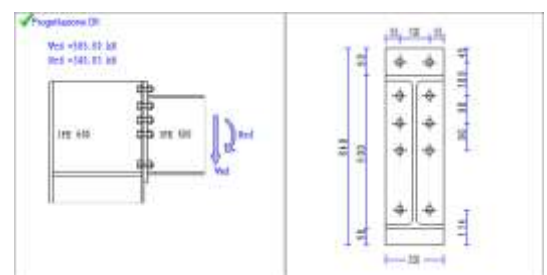
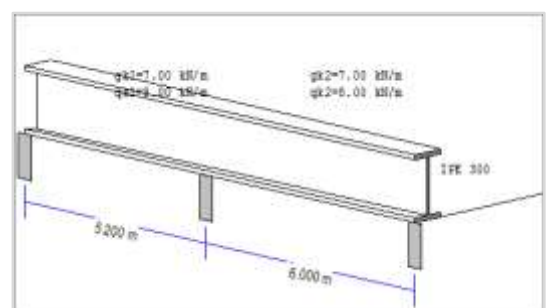
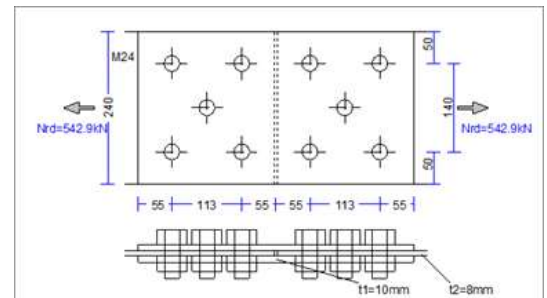


software for the design, check and drawing of steel structural elements

Eurocode 3 EN 1993:2005



- ✓ Classification of cross-sections
- ✓ Resistance of cross-sections in single and combined actions
- ✓ Flexural and lateral buckling resistance of members.
- ✓ Design of connections.
- ✓ Design of beams, columns, roof and floor structures.
- ✓ Design one floor frames and two floor frames.
- ✓ Design of purlins and bracing systems.
- ✓ Design of footings of steel structures.
- ✓ Parameters according to National Annex of Eurocode.
- ✓ Detailed reports with references to Eurocode paragraphs and necessary drawings.
- ✓ Tables with all international steel profiles with dimensions, resistance and buckling resistance values.
- ✓ User defined steel section properties.
- ✓ Welded steel sections formed by the user.

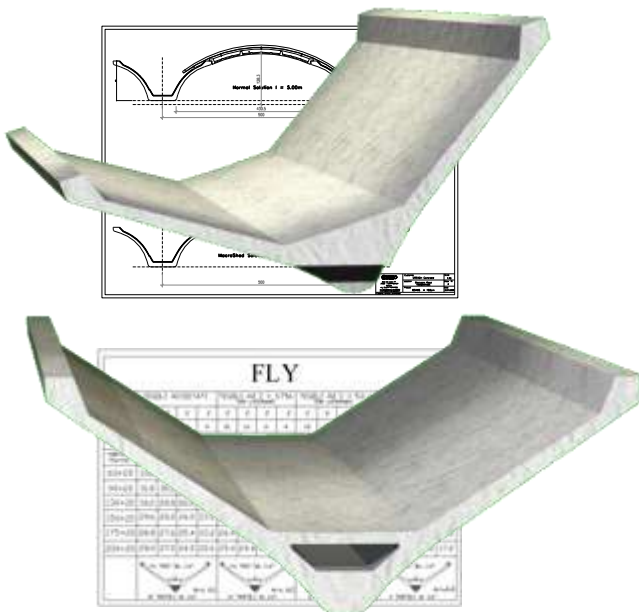
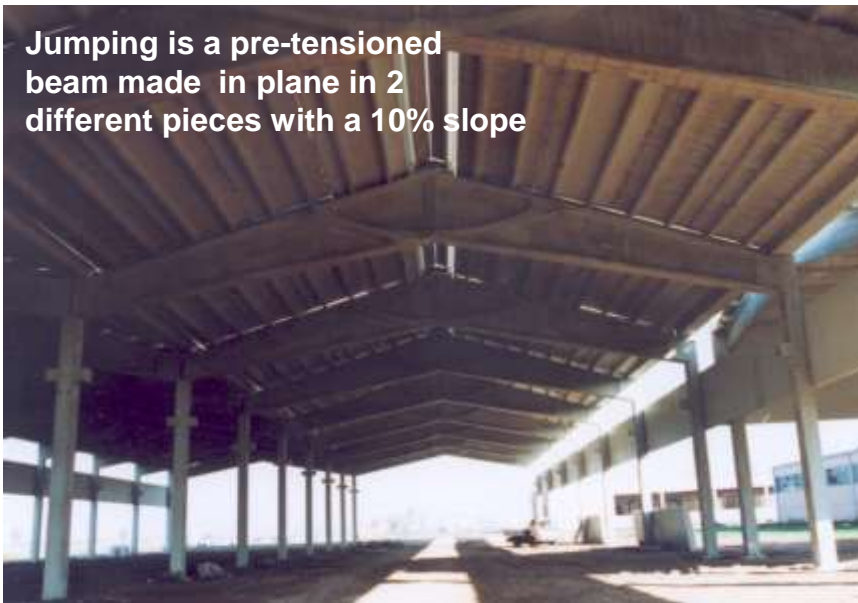


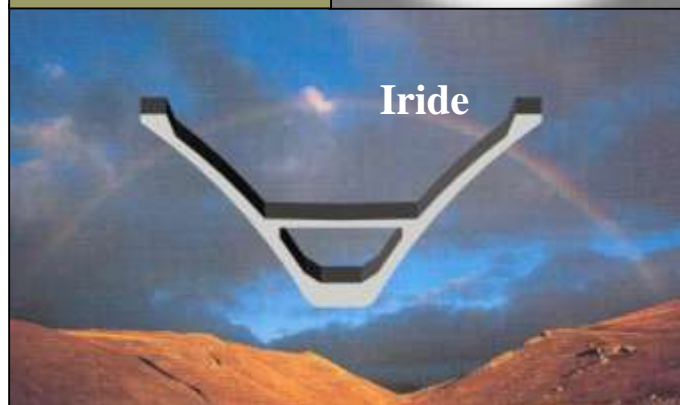
COMPLETE PROJECT AND DESIGN OF NEW STRUCTURES

THE DESIGN CONSISTS OF THE FOLLOWING STEPS

1. Comparison between your needs and the types of structures we can offer, checking the workability , weight, reinforcement, type of market for which it is intended.
2. Definition of the structure more suitable for your requirements.
3. Execution of graphs and usability tables for different reinforcements with different working conditions: as provided in the design.
4. Execution of drawings of structural work, fittings, working shop and calculation reports.
5. Signed reports and drawing for Ministerial Deposit
6. Verification of all the reinforcement to standard fire
7. Program to calculate, draw and design the beam so that the technical office is able to manage the design with full autonomy.
8. Exclusivity of production for 100 km radius
9. Upon request, brochure with pictures and renderings.

Jumping is a pre-tensioned beam made in plane in 2 different pieces with a 10% slope






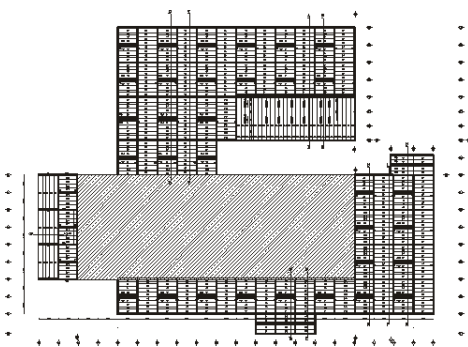
FLY made by SIPC (MI), Basso cav.Angelo (TV), Beta (LT), Ged (FO), Avanzini (VR), Sgarioto (RG), Dipaolo (TE), Nuova SCAC (SS), SOM.MA(Lodi), **Orione** by Italtprefabbricati (TE), **Ixia, Miura e Iside** by Battilana (VI), **Mistral** by CSP (BG), **Ibis** by Mozzo (VR), **Planet** by Bcg (MN), **Variant** by Hormipresa (Barcelona), **Lyra** da Morri (RN), **Shed2000** da Beton Piave (TV), **Irbis** by Delta (PU), **Iride** by G&D (TE), **Mondo V** by LPM (CN), **Team** by Casitalia (CR). **F1** by S&T Varese (VA), **Argo** by ITER (RA), **Bb-Light** by Latercementi (TV), **Sky** by Zanette (PN), **Nerèò** by Errevi (BO), **Bat100** by SOM.MA (Lodi), **Daniel** by SPAV (UD), **V100** by EDILSOLAI (FC), **Solare** by IPEM (UD), **Wingspan** by Creagh (Ireland), **Wave** by Gattelli (RA), **Solaio antifuoco (firewall)** by Nico Velo.



Eiseko Computer and Eiseko Engineering have joined together to form the Eiseko Group, with the aim of offering a complete service in terms of software and project work.

In particular, **Eiseko Engineering** offers the following services:

- Project working design of precast buildings:
 - ✓ Predimensioning, structural analysis of complex buildings,
 - ✓ General arrangement drawings and after sales service,
 - ✓ Development of production projects (drawing of the precast elements, rebars, embeds and construction details),
 - ✓ Erection drawing and technical support
- Project design of foundation work for civil and precast buildings
- Feasibility and engineering studies of new precast elements
- Anti-seismic improvements of industrial buildings 



ANTI-SEISMIC IMPROVEMENTS OF INDUSTRIAL BUILDINGS



EISEKO ENGINEERING: the staff is expert in the assessment of the anti-seismic resistance of structures and design security systems for every need.

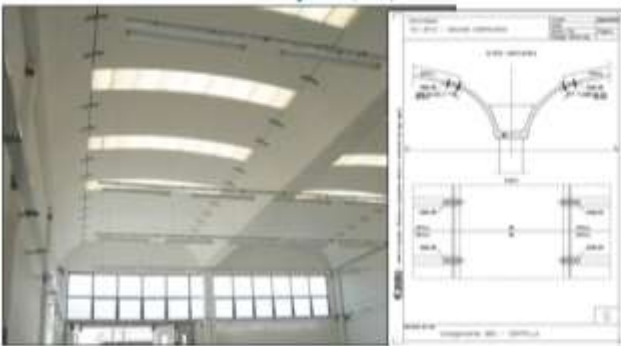
After a careful and thorough inspection, our staff will offer the best technical intervention depending on the type of building..

Our projects fully meet the safety requirements by law.

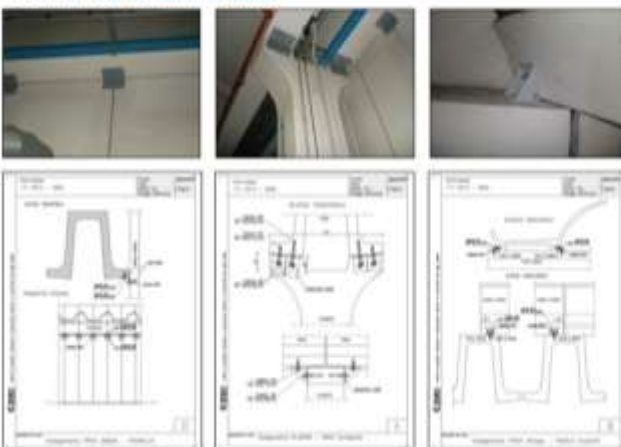
QUOTES ON REQUEST

SOME EXAMPLES OF ANTI-SEISMIC IMPROVEMENTS

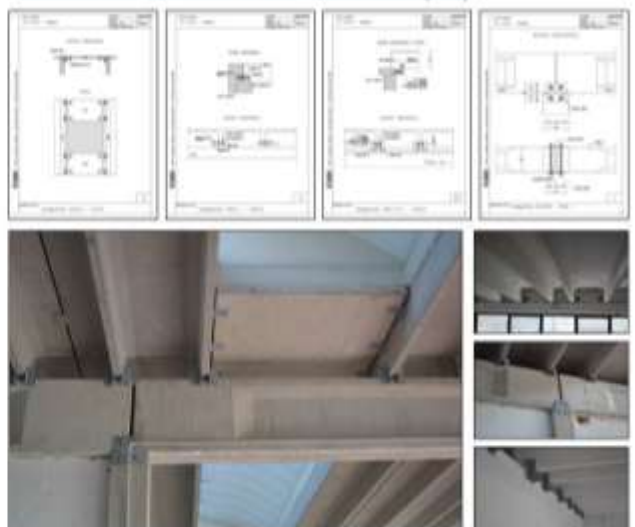
COMMESSA: EMILIANA Bomporto (MO)



COMMESSA: SIDEL Verona



COMMESSA: RIWEGA S. Felice sul Panaro (MO)



COMMESSA: AGHI-MEC Finale Emilia (MO)

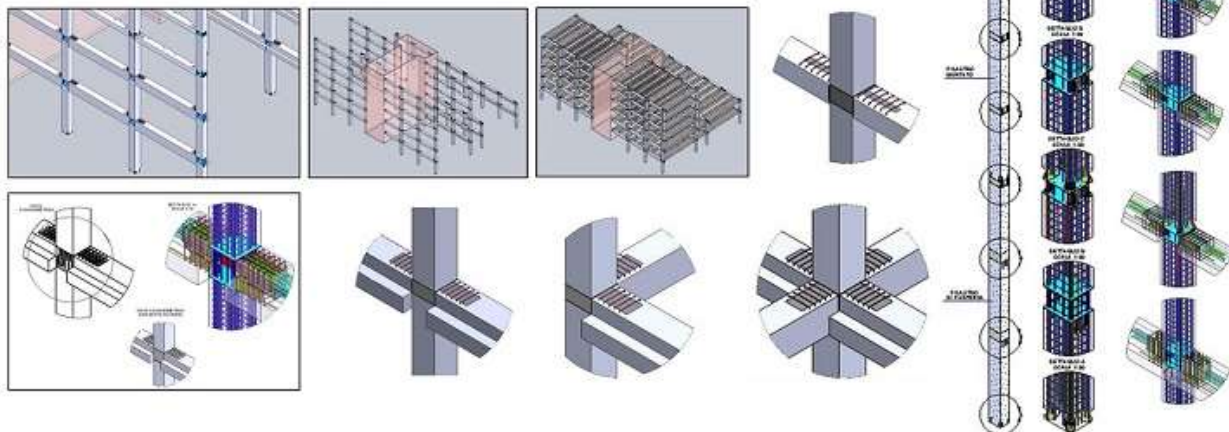
INNOVATIVE SEISMIC HYPERSTATIC CONNECTIONS



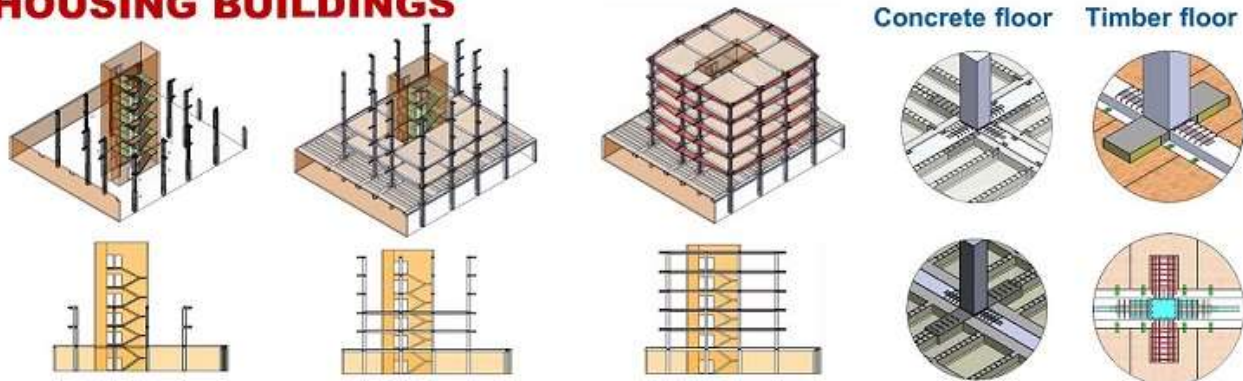
Eiseko Fly Seismic®

Precast building system
with invisible connections

INDUSTRIAL AND BUSINESS BUILDINGS



HOUSING BUILDINGS



RESEARCH University of Bergamo (Italy)



SOFTWARE: design and calculation of prestressed hyperstatic beams



Eiseko Computer S.r.l.

Viale del Lavoro 17 - 37036 S. Martino B/A (VR)

tel. 045 8031894
posta@eiseko.com



fax 045 8044652
www.eiseko.com