



black on white

26 excellent arguments for PreDim

- Load calculation
- ViBo/BBRI
- Input static material quality
- Preventing contusion
- Crack calculation
- 92 Loading cases
- 4.100 Aluminum profiles
- Glued laminated timber
- Round timber
- Structural timber
- Expert mode
- Statics expert
- LSG
- DIN
- ISO
- EN(EuroNorm)
- EC (EuroCode)
- sTs
- 82 profile types I L T S C o
- Fire resistance
- Reinforcement
- German, French, Dutch & English Translations
- Fire refractory class
- Printing & editing of results
- Graphical version
- 24.000 profiles
- 6 materials
- Steel Reinforced concrete Wood Glued laminated timber
- Aluminium
- Help text & help videos

1th Argument: Preventing contusion

PreDim probes examines in 3 adjustable steps if the obtained profiles withstand the loading (Profilafsnittet, støbning, skimmel, mold, stål bjælke, stål afsnit, stål form, form, form, kontur, murer's profil, vejledning post, VVS-guide, solid støbning, stak støbning, halve tværbjælke, tee-split, stak skimmel, kulde - valset stål, koldt-arbejdet afsnit, kulde-dannet stål, CF-stål, limet på støbning, der er

på støbning, plantet støbning, valset afsnit, dybde af afsnittet, afsnit jern, valsede bom, valset bjælke, valset stål tværbjælke, RSJ, stål bom, tømmer boksen bom, band støbning, band mørbrad, formede filet, coving, støbning fly, molding plane sektionssorte stål, bygningsstål). Tested will be the relation of height to width, as well as the quotient of the cross-section (profil afsnit, afdeling, stål afsnittet) to total area (samlede base, brutto område, diameter sektionssorte opfattelse, sectioning, horisontale afsnit sektionssorte planen, i afsnit, tværsnit, tværgående sektion, longitudinal section, vertikal sektion, skråspids opskåret, oblique afsnit, skæring fly, plane of afsnittet).

Not convinced yet?

Get to know more about PreDim

PreDim 2008

Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm2, 613 kg/cm2
 Bending, inertia= 80000 kg*cm, 887 cm4
 Supported deflection (/real)= 10 mm / 3 mm
 Hollow rectangular supporting beam 140x70 (140x70/13/13)
 Cold production, DIN 59410 05/1974
 heigh x width, ratio= 140x70 mm, 2.0:1
 Thickness vert./horiz. = 12.5, 12.5 mm
 Section, surface moment of inertia, weight=
 46.3 cm2, 1030.3 cm4, 145.2 kg

F (kg/m')= L (cm)=

Inclination=

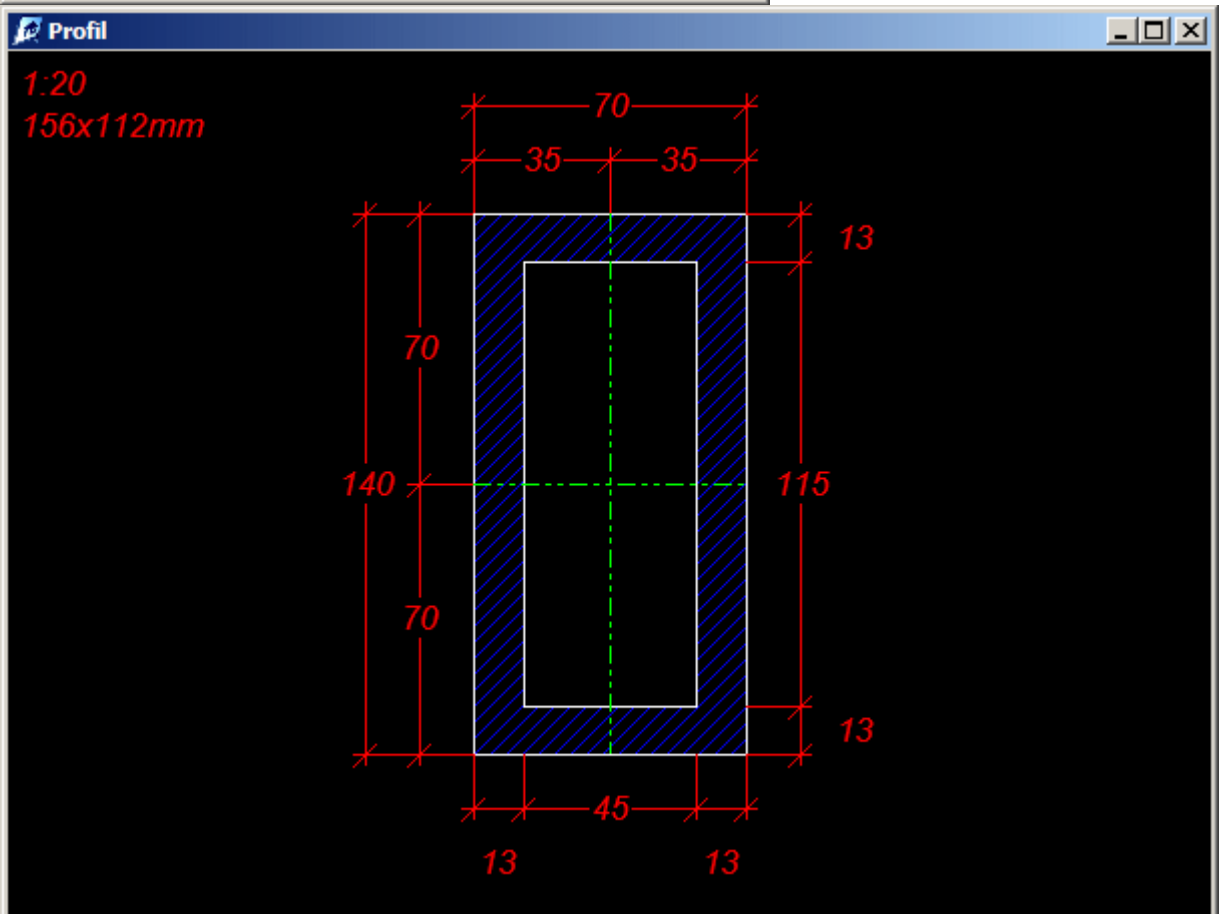
H max.(cm)= Choice=

Expert mode Type beam=

Quality= Ch. curve=

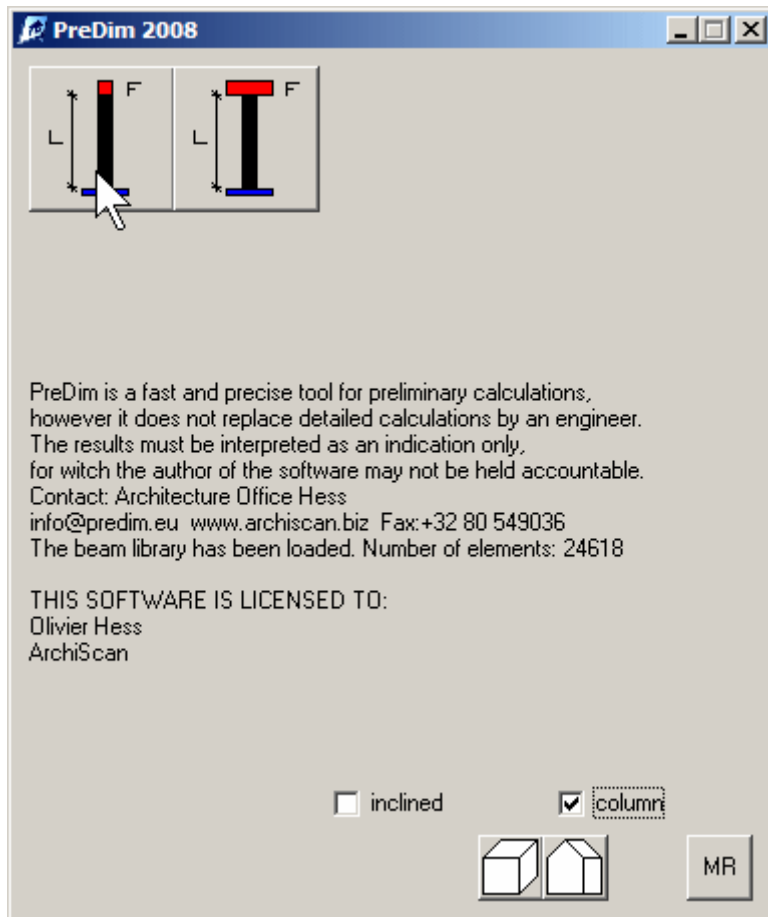
Contusion= Refractor. =

Supp. beams= ular supporting beam 140x70 (140x70/13)



2th Argument: Crack calculation

Pillars (finger, støtter) will be examined for cracking (bøjes, kink, twist, tag bremse, buckling, dynamisk buckling, falsning-arm-persienne, buckling lastning, collpasing belastning, buckling coefficient, buckling formel, Eulers formel, buckling risiko, risikoen for bucklingbuckle, sammenbrud, buckling belastning, ødelæggende belastning, kritisk belastning, buckling længde, effektiv længde, bremse kast, bremse fælles, skank fælles, buckling test, buckling stress, kollapser stress, column stress, kritisk stress, kolonne, buckling modstand, buckling styrke, buckling sikkerhed, sikkerhed mod buckling). In the demo version this is not the case, which may lead to dangerous results.



Not convinced yet?

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3th Argument: 92 loading cases

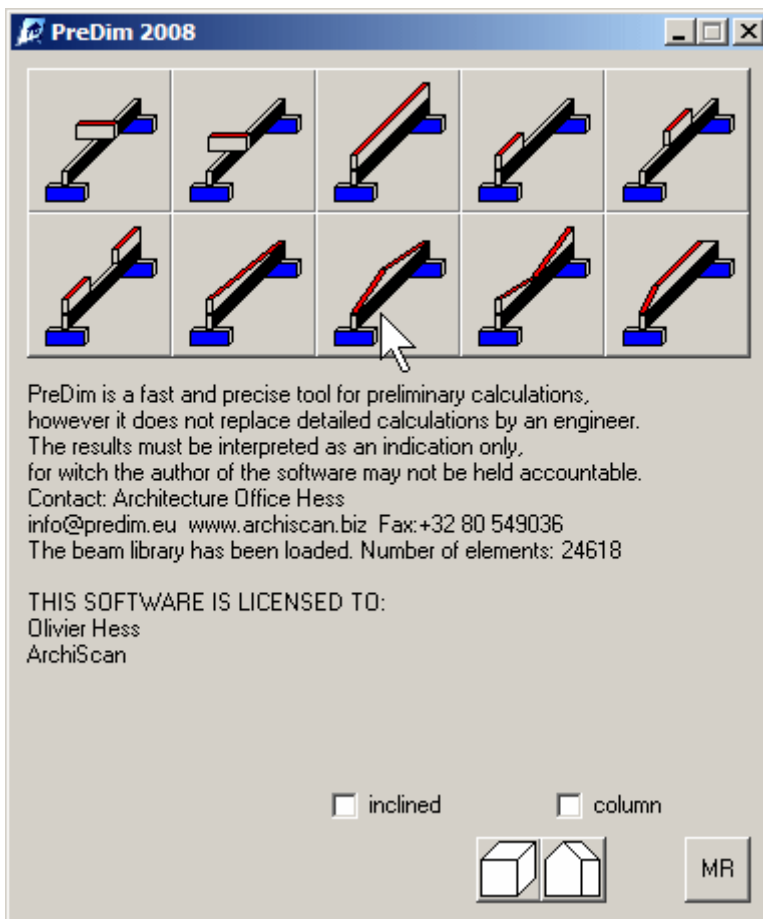
(antaget belastning, skøn over lastning, hypotese, hypotese, design antagelser, belastningsfaktoren tilfælde af lastning, lastning tilfælde måde af lastning, load test, lastning mønster, load diagram, indlæse tabellen, forhøjelse af lastning, tilvækst af belastning, load distribution Belastningen arrangement, decharge enhedsværdi, fastholdelsesordenen enhed, antages belastning, aksial belastning, koncentriske belastning, virtuel lastning, dynamisk belastning, excentrisk belastning, fiktive belastning, jævnt fordelt last, jævnt fordelt last, ensartet belastning, distribueret line belastning, kniv-kant belastning, lineære lastning, strimler belastning, maksimal belastning, spidsbelastning, ultimative belastning, mobil belastning, continuous rating, produktion af tjenester, der indførtes belastning, levende belastning, service belastning, arbejdsbelastning, konstant belastning, continuous belastning, døde belastning, statisk belastning, midlertidig belastning, tilladte belastning, design belastning, tilladte belastning, sikker belastning, arbejdsbelastning, skiftende belastning, der indførtes belastning, levende belastning, service belastning, overlejtret belastning, brug belastning, variabel belastning, arbejdsbelastning skiftevis belastning, Skiftende belastning, variabel belastning, skøn over lastning,

belastningsfaktoren tilfælde af lastning, lastning tilfælde måde af lastning, load test, lastning mønster, load diagram, indlæse tabellen, forhøjelse af lastning, tilvækst af belastning, load distribution, load arrangement, decharge enhedsværdi , Fastholdelsesanordningen enhed)

PreDim offers 92 combinable load cases, for quasi every loading straight away very quickly a result can be obtained.

Not convinced yet?

Get to know more about PreDim



4th Argument: 4.100 Aluminum profiles

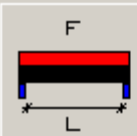
(aluminium lys legering, aluminium tube, aluminium afsnittet)

PreDim supports you to plan and enables you to compare one directly by one. Includes are rectangular profiles (full and hollow), tube profiles, round profiles and U/L/S/I profiles, solid form, half profile...

Not convinced yet?

Get to know more about PreDim

PreDim 2008



Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm², 202 kg/cm²
 Bending, inertia= 80000 kg²cm, 2660 cm⁴
 Supported deflection (/real)= 10 mm / 3 mm
 Aluminium square pipe 200x100 (200x100/18/18)
 Cold production, AlMgSi F22, EN 573 DIN 1748
 heigh x width, ratio= 200x100 mm, 2.0:1
 Thickness vert./horiz. = 18.0, 18.0 mm
 Section, surface moment of inertia, weight=
 95.0 cm², 4314.2 cm⁴, 102.6 kg

F (kg/m')= L (cm)=


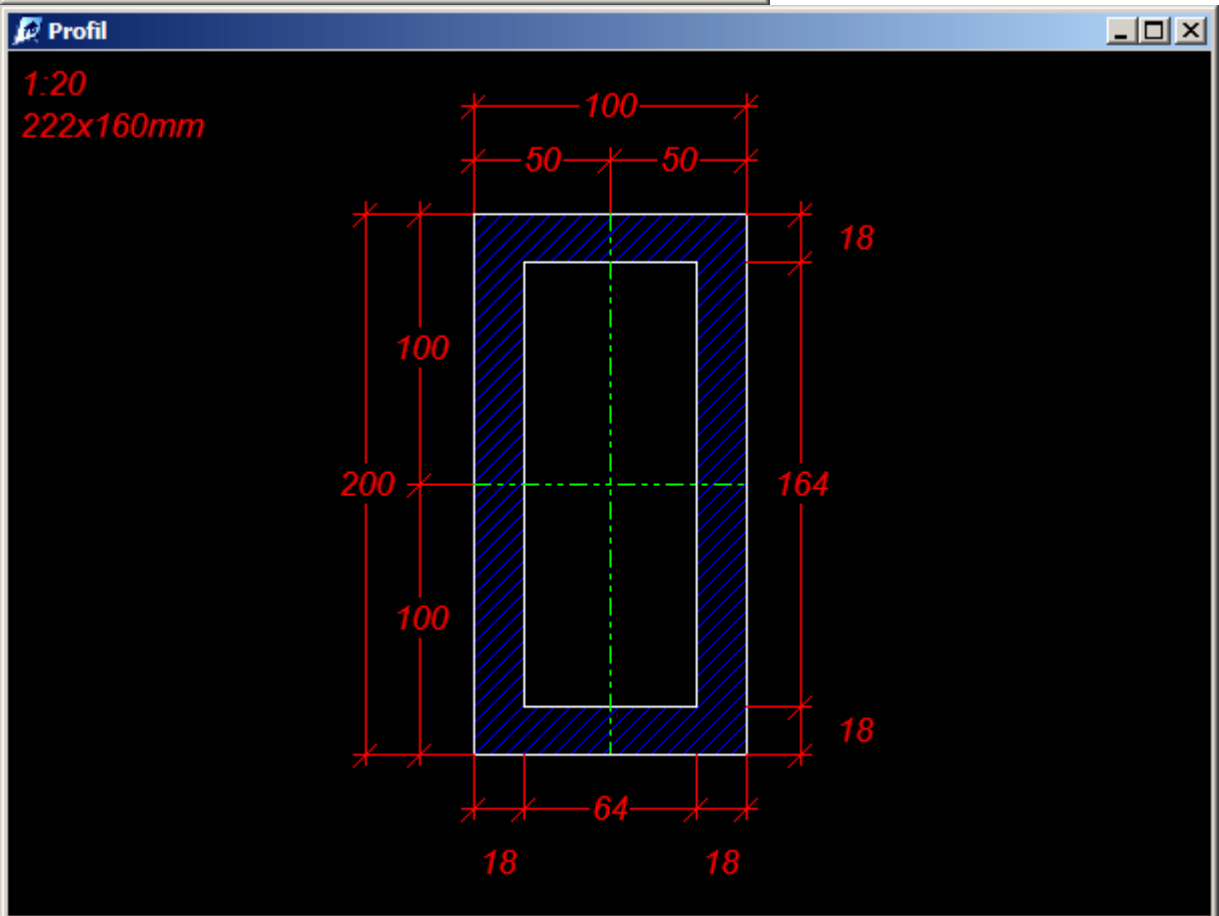
Inclination=

Text:

Expert mode Type beam= Aluminium square pipe

- Aluminium square pipe
- Aluminium beam U
- Aluminium beam L
- Aluminium tube (pipe)
- Aluminium plain tube
- Aluminium beam T
- Aluminium beam Z
- Aluminium beam I

Supp. beams= Aluminium square pipe 200x100

5th Argument: *Glued laminated timber*

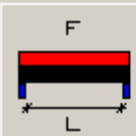
(Træ består af lag, glulam, lamineret tømmer, lamineret træ, limet truss, komprimering træ, lamineret træ bjælker, lim-lamineret bjælker, strukturelle træ, tømmer limet flere lag dimensioneret tømmer limet, strukturelle medlemmer, columns, bjælker, manipuleret træ , Fiberboard, haardfiberplader, Masonite, medium-density fiberboard, OSB-plader, spånplader, krydsfiner, presset træ)

Even the most extended spans (load lengths) can be calculated with PreDim, of course also layer wood according to DIN 1052.


Not convinced yet?

Get to know more about PreDim

PreDim 2008



Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm², 56 kg/cm²
 Bending, inertia= 80000 kg²cm, 15515 cm⁴
 Supported deflection (/real)= 10 mm / 3 mm
 Glued laminated timber 300x100



height x width, ratio= 300x100 mm, 3.0:1
 Section, surface moment of inertia, weight=
 300.0 cm², 22500.0 cm⁴, 51.6 kg


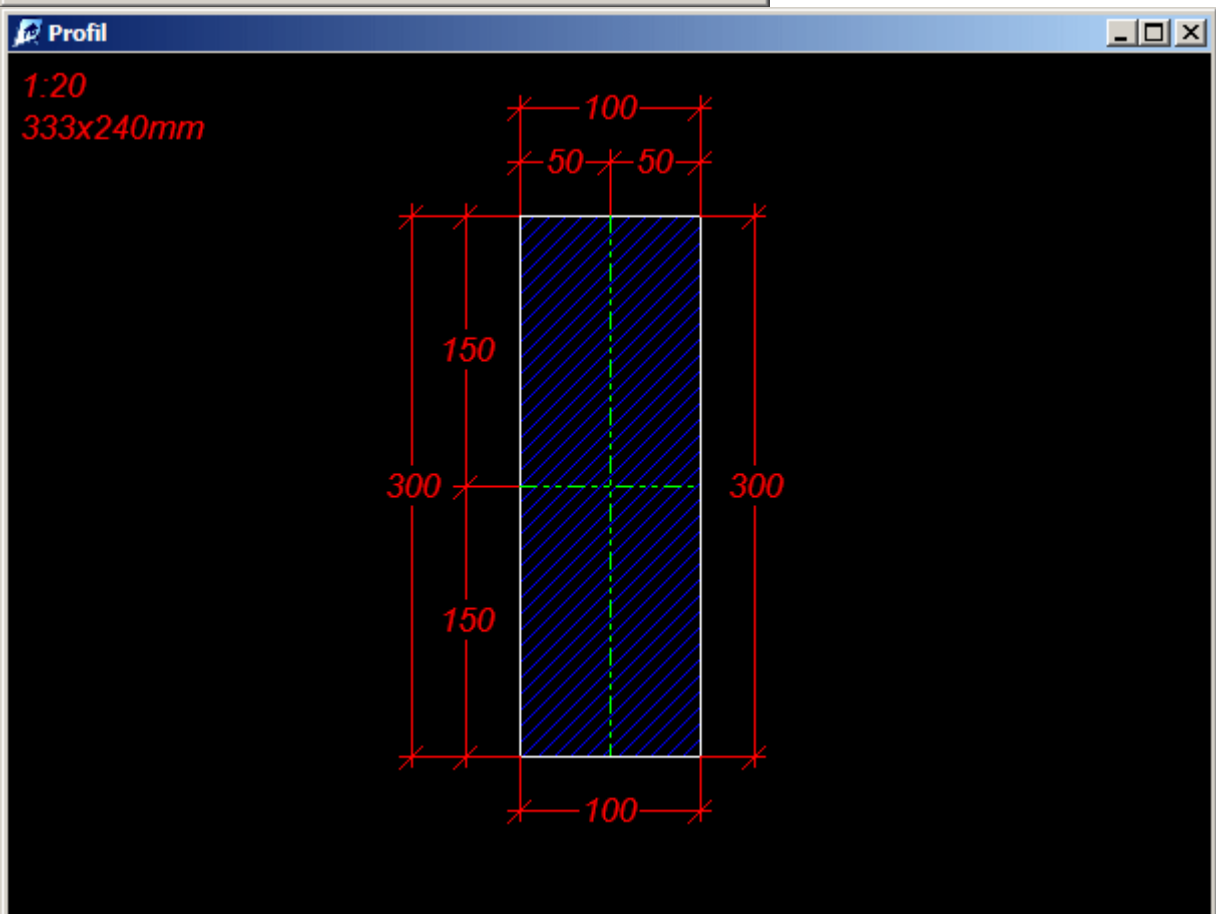
F (kg/m')= L (cm)=

Inclination=

Text:

Expert mode Type beam=

Supp. beams=

6th Argument: Round timber

PreDim offers 200 round timber profiles.

Not convinced yet?

Get to know more about PreDim

PreDim 2008

Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm², 45 kg/cm²
 Bending, inertia= 80000 kg²cm, 18618 cm⁴
 Supported deflection (/real)= 10 mm / 3 mm
 Round timber 270x270
 without standard
 heigth x width, ratio= 270x270 mm, 1.0:1
 Section, surface moment of inertia, weight=
 572.6 cm², 26087.0 cm⁴, 93.9 kg

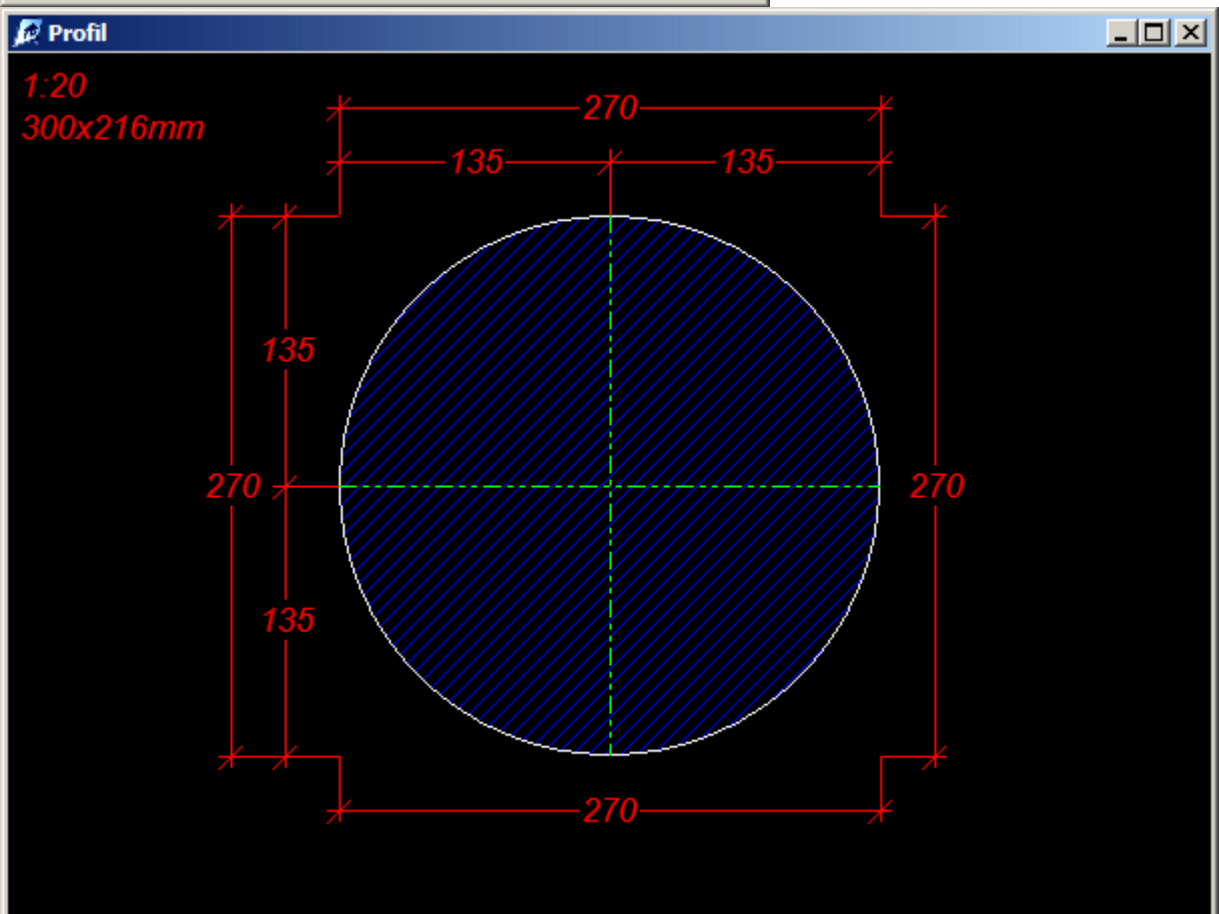
F (kg/m')= L (cm)=

Inclination=

Text:

Expert mode Type beam=

Supp. beams=



7th Argument: Structural timber

(balk, klædt tømmer, dimension, kvadratiske kanter tømmer, strukturelle tømmer, kram, dukket tømmer, wrot tømmer)

PreDim comprises more than 500 structural woods, of course also structural wood according to DIN 4070-1/2, DIN 4074-1.

Not convinced yet?

Get to know more about PreDim

PreDim 2008

Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm², 61 kg/cm²
 Bending, inertia= 80000 kg²cm, 18618 cm⁴
 Supported deflection (/real)= 10 mm / 3 mm
 Square timber DIN S10/MS10 320x80
 DIN 4070-1/2, DIN 4074-1
 heigh x width, ratio= 320x80 mm, 4.0:1
 Section, surface moment of inertia, weight=
 256.0 cm², 21845.3 cm⁴, 42.0 kg

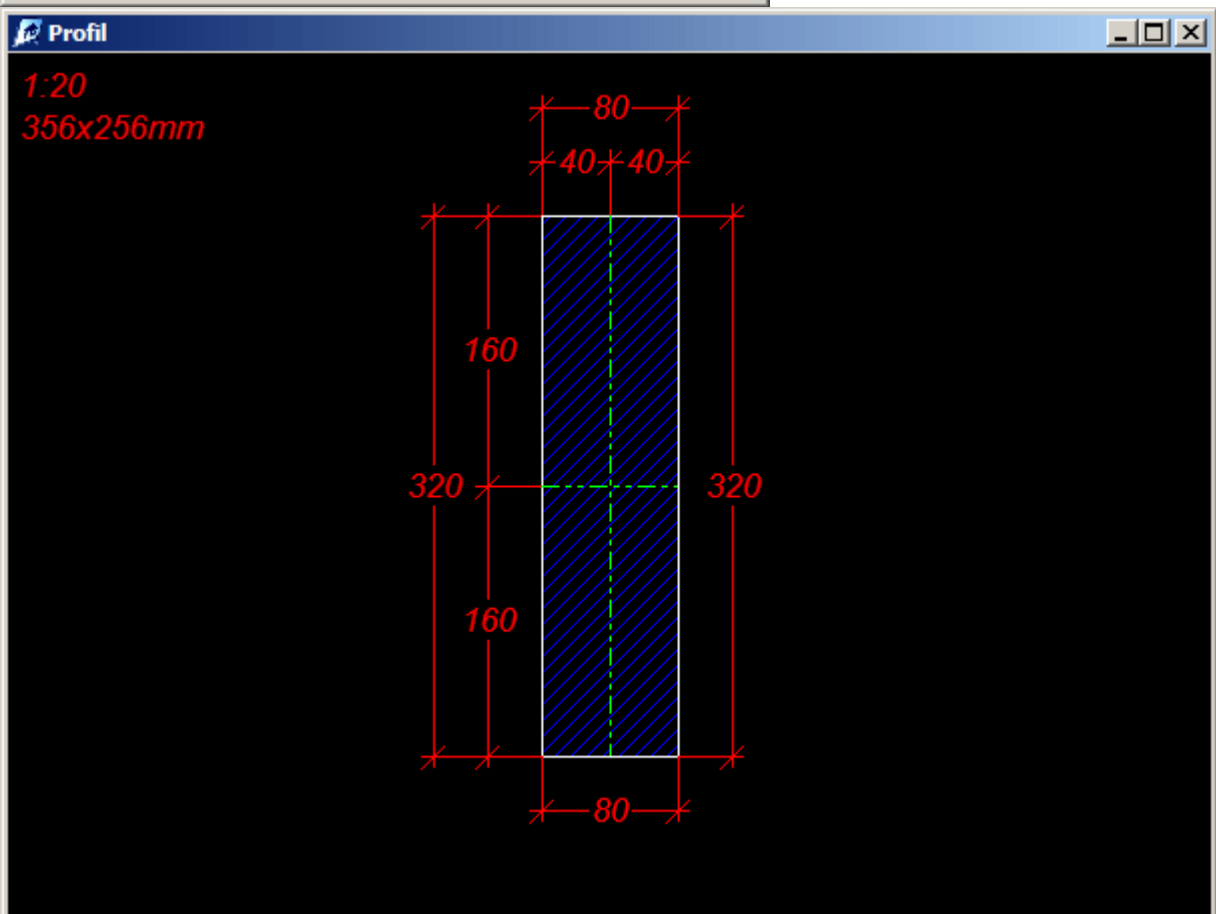
F (kg/m')= L (cm)=

Inclination=

Text:

Expert mode Type beam=

Supp. beams=

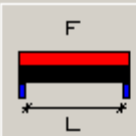


8th Argument: DIN


(DIN tysk Industrial Standard)

PreDim comprises more than 3,000 profiles according to German DIN standard and respects also many other DIN standards in co-ordination with EN (Euronorm). DIN 1025-1 EN 10025/10034 ISO 5261, DIN 1025-5 03/1965 EN 19-57, DIN 1025-3 10/1963 EN 53-62, DIN 1025-2 10/1963 EN 53-62, DIN 1025-4 10/1963 EN 53-62, DIN 1026 10/1963 EN 24, DIN 1028 10/1976 EN 56 partly, DIN 1027 10/1963, DIN 1024 03/1982, DIN 59410 05/1974, DIN 59410 05/1974, DIN 2448/2458 02/1981, DIN 2448 02/1981, DIN 2458 02/1981, DIN 2440/2441 07/1978, DIN 1014-1 07/1978 EN 59 '78, DIN 1013-1 11/1976 EN 60 '77, DIN 59411 07/1978, DIN 59411 07/1978, DIN 1025-1, DIN 1025-2, DIN 1025-3, DIN 1025-4, DIN 1024 03/1982, DIN 59051 08/1981, DIN 10/1963, DIN 1017-1 04/1967, DIN 59200 10/1965 EN 91 for the most part, DIN 4070-1/2, DIN 4074-1, DIN 1052, DIN EN 573/755, EN 573 DIN 1748, DIN EN 573/755

PreDim 2008



Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm², 56 kg/cm²
 Bending, inertia= 80000 kg²cm, 15515 cm⁴
 Supported deflection (/real)= 10 mm / 3 mm
 Glued laminated timber 300x100



height x width, ratio= 300x100 mm, 3.0:1
 Section, surface moment of inertia, weight=
 300.0 cm², 22500.0 cm⁴, 51.6 kg


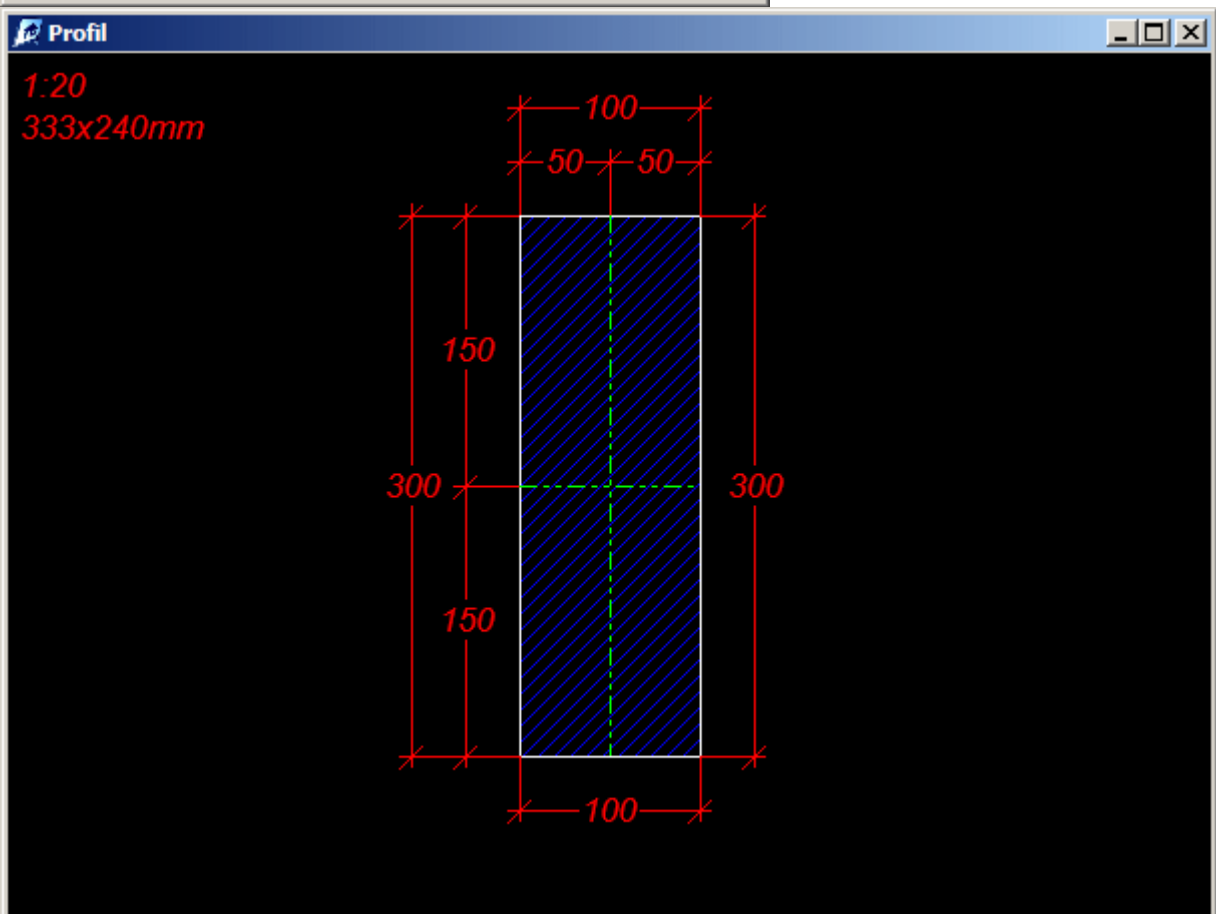
F (kg/m')= L (cm)=

Inclination=

Text:

Expert mode Type beam=

Supp. beams=

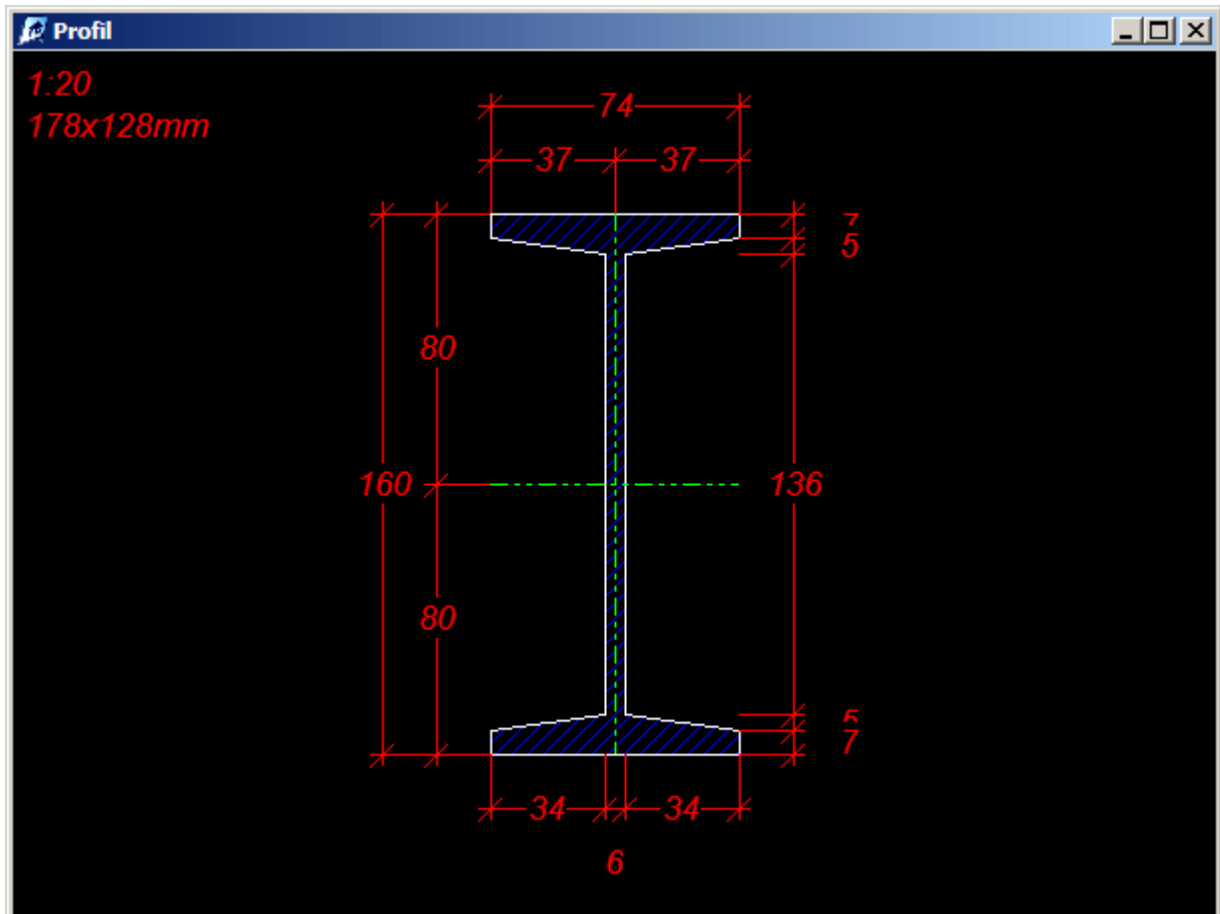



Not convinced yet?
Get to know more about PreDim

9th Argument: ISO

(International Organisation for Standardisation)

PreDim comprises more than 1,000 profiles according to international ISO standard. DIN 1025-1 EN 10025/10034 ISO 5261



Not convinced yet?
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10th Argument: EN (EuroNorm)

PreDim comprises more than 4,000 profiles according to European EN standard.

DIN 1025-1 EN 10025/10034 ISO 5261, DIN 1025-5 03/1965 EN 19-57, DIN 1025-3 10/1963 EN 53-62, DIN 1025-2 10/1963 EN 53-62, DIN 1025-4 10/1963 EN 53-62, DIN 1026 10/1963 EN 24, DIN 1028 10/1976 EN 56 partly, DIN 1014-1 07/1978 EN 59 '78, DIN 1013-1 11/1976 EN 60 '77, DIN 59200 10/1965 EN 91 for the most part, DIN EN 573/755, EN 573 DIN 1748, DIN EN 573/755, DIN 1034, EN 100-1000, EN 1000-1100, ASTM A6/A6M, EN 100-600 DIN 1025-5, EN 100-600 DIN 1025-5, EN 750, DIN 1034 W-Shapes 6-44 ASTM A6/A6M, EN 100-1000 W-Shapes 6-44 ASTM A6/A6M, EN 1000-1100 W-Shapes 6-44 ASTM A6/A6M, ASTM A6/A6M W-Shapes 6-44 ASTM A6/A6M, EN

100-600 DIN 1025-5 W-Shapes 6-44 ASTM A6/A6M, EN 100-600 DIN 1025-5 W-Shapes 6-44 ASTM A6/A6M, EN 750 W-Shapes 6-44 ASTM A6/A6M, EN 80-400 DIN 1026-2

Not convinced yet?

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11th Argument: EC (EuroCode)

PreDim calculations are bases for the most part upon the simplified EC (Eurocode 0, 1, 2, 3, 4, 5).

Model building codes, European Committee for Standardisation, structural design, structures, concrete structures, steel structures, composite steel & concrete structures, timber structures, masonry structures, geotechnical design, structures for earthquake resistance, aluminium structures, civil engineering work, ENV, European Committee for Standardisation, BS 5950 British steel design standard, BS 8110 British concrete design standard, LRFD Load and Resistance Factor Design

Not convinced yet?

Get to know more about PreDim

12th Argument: sTs

(Industrial Specificationer, spécifications teknikker / eengemaakte Technische Specificaties)

PreDim comprises over 1,000 wood profiles according to Belgian sTs Industrial Specifications. sTs 04 (2th part) 10/1990 SAS

Not convinced yet?

Get to know more about PreDim

13th Argument: 82 profile types

(stål vinkel, stål bom, stål Bender, stål kolonne, stål, beton, stål stål design eingeener, stål engineering, stål ramme, stål indrammet struktur, stål indramning, stål bjælke, stål rør, stål afsnittet tværbjælke, stål afsnit, stål forme, stål skelet bygning, stål skelet, stål struktur designer, stål struktur, stålrør)

PreDim comprises 82 profile types according to international specifications:

Steel profile IPE IPN IPB (HE-A, HE-B, HE-M), Steel profile T 1/2I, Steel profile U, Steel profile L, Steel profile S, Steel profile C, Steel hollow tube, Steel plain tube, Square profile hollow, Square profile plain, Rectangular profile hollow, Rectangular profile plain, Wood, Round wood, Wooden floor, Glued laminated timber, Tubes in glued laminated timber, Reinforced concrete, Aluminium flat rectangular profile, Aluminium rectangular tube, Aluminium U-profile, Aluminium L-profile, Aluminium tube, Aluminium plain tube, Aluminium T-profile, Aluminium S-profile, Aluminium I-profile, HD, HE-AA, HL, HP, IPEa, IPEaa, IPEr, HD W-Shapes, HE-AA W-Shapes, HL W-Shapes, HP W-Shapes, IPEa W-Shapes, IPEaa W-Shapes, IPEr W-Shapes, UAP, UPE, Alu rolling pipe profile, Alu pneumatic cylindrical profile, Reinforced concrete pillar, LSG Laminated safety glass

Not convinced yet?

Get to know more about PreDim

PreDim 2008

Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm2, 1184 kg/cm2
 Bending, inertia= 80000 kg²cm, 554 cm⁴
 Supported deflection (/real)= 16 mm / 6 mm
 Steel www.sabprofiel.nl SAB 153R/840 1.25 mm

height x width, ratio= 153x60 mm, 2.6:1
 Thickness vert./horiz. = 1.3, 1.3 mm
 Section, surface moment of inertia, weight=
 20.7 cm², 638.4 cm⁴, 65.0 kg

F (kg/m2)= L (cm)=

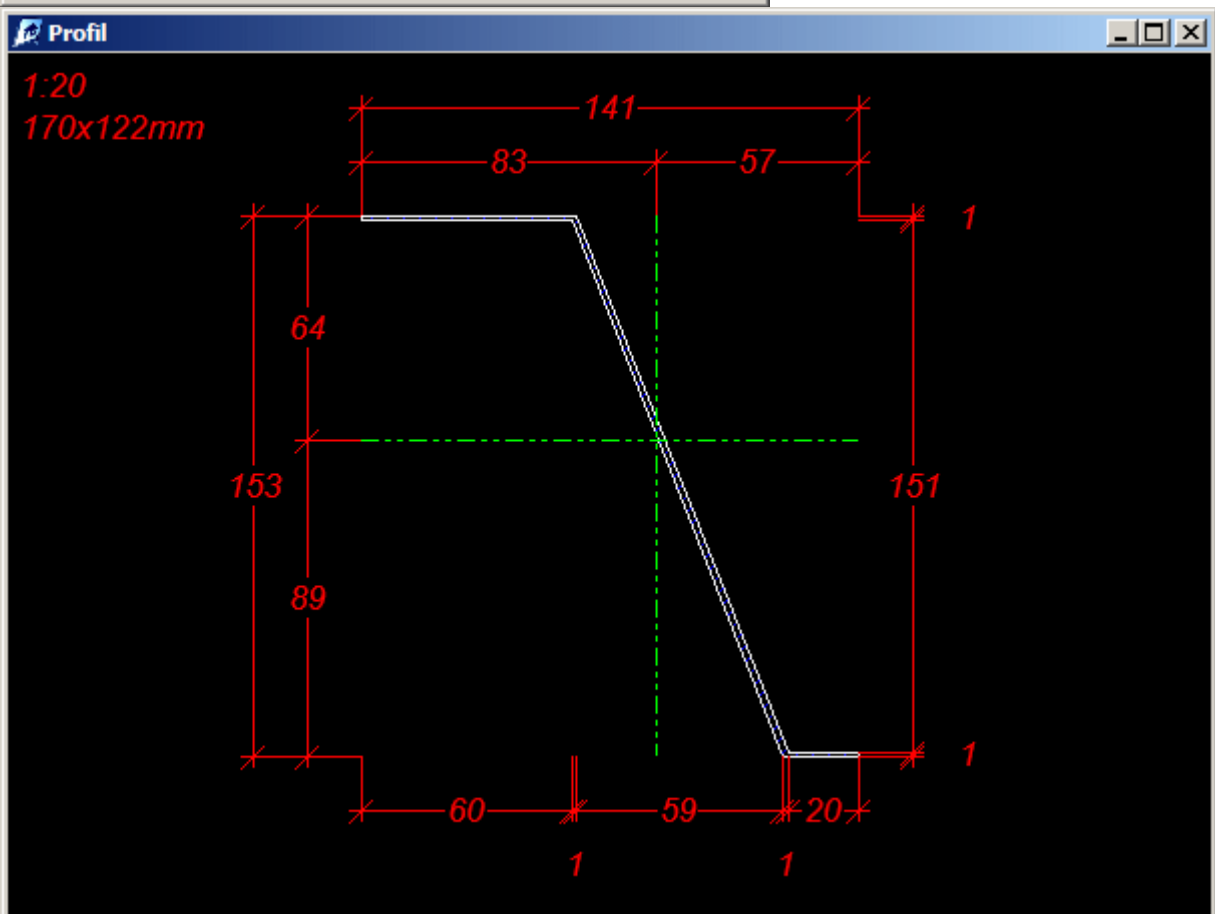
Inclination=

Text:

Expert mode Type beam= Trapeze-sh. sheet Steel

Supp. beams= Steel www.sabprofiel.nl SAB

- Aluminium tube (pipe)
- Aluminium plain tube
- Aluminium beam T
- Aluminium beam Z
- Aluminium beam I
- Laminated safety glass (LS)
- Trapeze-sh. sheet Steel**
- Trapeze-sh. sheet Alu



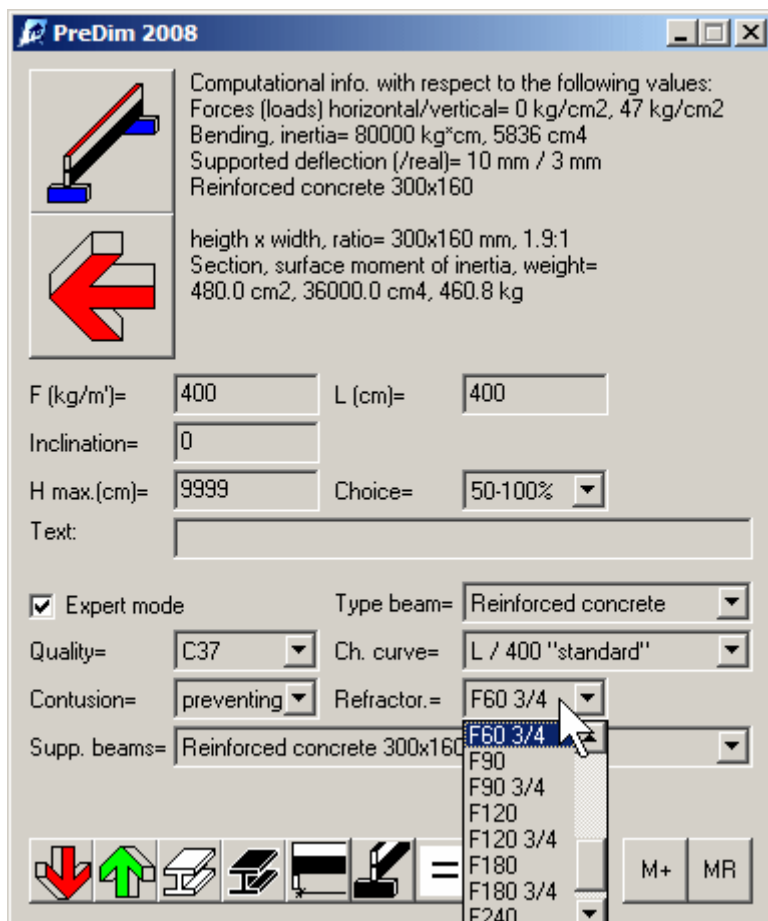
14th Argument: Fire resistance

(brændbart, brændbare, combustibility, brandslukning, brandsikring, brandsikring, rum, brand rum, rum sparation, brand celle, branddetektion anordning, brand check dør, brand dør, brand-resistant døren, nødsituation dør, brand varighed, brænder , Atmosfæriske brændere, brand hazard, brandfare, brandslukning måde, brand farlige, yderst brandfarlige, rum division væg-, brand-partition, brandsikker væg-, brand-resistingf væggen, partering hegnet, partering mur, stærk væg, fælles mur, brand division væggen, brandspredning, spredning af brand, brandforebyggelse, brand-test, brand skader, brand los, brand curtian, brand væggen, proscenium væggen, brandspredning, brandsikkerhed, byggeri klasse, brand klassificering, brandsikring, brand , Brand udluftning, røg forretningen, brandhæmmende, brand-stop, brandhæmmende, intumescent maling, brandsikker coat, brand-at forsinke beklædning, brand forsikring, brand formering, brandsikker, brand-safe, brand station, brand - stop, brand modsætter byggeri, brand udholdenhed, brandmodstand, brand stopper, brand barriere, fadøl stoppe, bredt flanged bom, H-beam, H-bjælke, H-sektionen, universelle bom, bred flange beam)

PreDim calculates the fire resistance in 11 steps (F0, F15, F15 3/4, F30, F30 3/4, F60, F60 3/4, F90, F90 3/4, F120, F120 3/4) also with exposition to fire on only 3 sides for wood, layer wood, wooden floor and reinforced concrete. From version 6.8 onwards PreDim calculates also the complicated fire resistance of steel & aluminium!

Not convinced yet?

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15th Argument: Reinforcement

(stål forstærkning, styrke konkrete kolonne, styrke, armeret beton pipe, forstærket-beton bom, styrket-konkret loft, forstærket-beton kolonne, styrket-beton byggeri, styrket-beton designer, styrket-beton

fundament, forstærket af konkrete rammer, styrket - konkrete bjælke, forstærket-beton bunke, forstærket-beton pipe, forstærket-beton skelet, forstærket-betonplader, forstærket-konkret struktur)

PreDim calculates for reinforced concrete from now on the upper and lower reinforcement. In this case straight away different propositions will be obtained (number x diameter). Table seen in the profile windows below:

Not convinced yet?

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PreDim 2008

Computational info. with respect to the following values:
 Forces (loads) horizontal/vertical= 0 kg/cm², 47 kg/cm²
 Bending, inertia= 80000 kg²cm, 5836 cm⁴
 Supported deflection (/real)= 10 mm / 3 mm
 Reinforced concrete 300x160

height x width, ratio= 300x160 mm, 1.9:1
 Section, surface moment of inertia, weight=
 480.0 cm², 36000.0 cm⁴, 460.8 kg

F (kg/m')= L (cm)=

Inclination=

H max.(cm)= Choice=

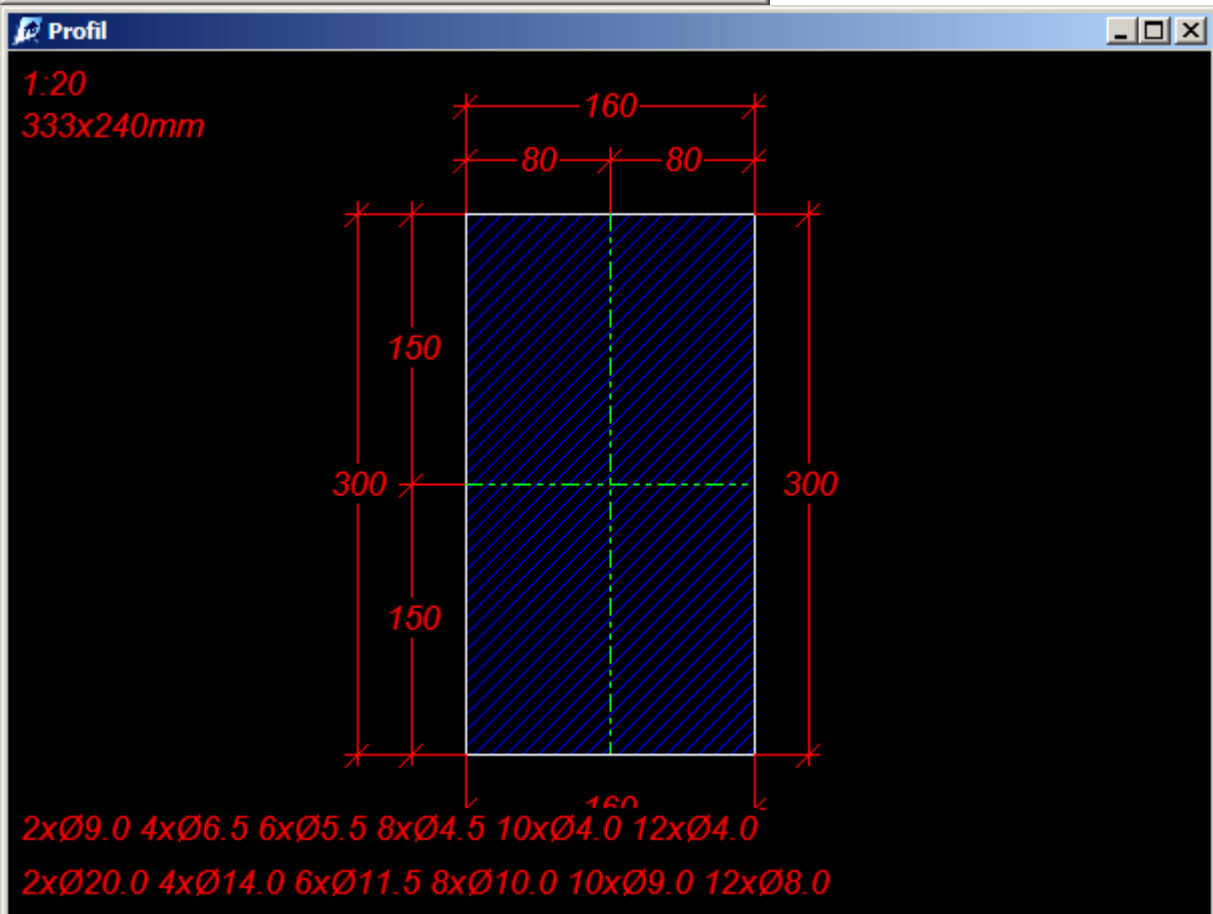
Text:

Expert mode Type beam=

Quality= Ch. curve=

Contusion= Refractor.=

Supp. beams=



16th Argument: Translations

PreDim has been translated into 4 languages including all auxiliary text and instructions. This requires for each version a lot of time, but offers insight into the work of the European neighbours.

Not convinced yet?

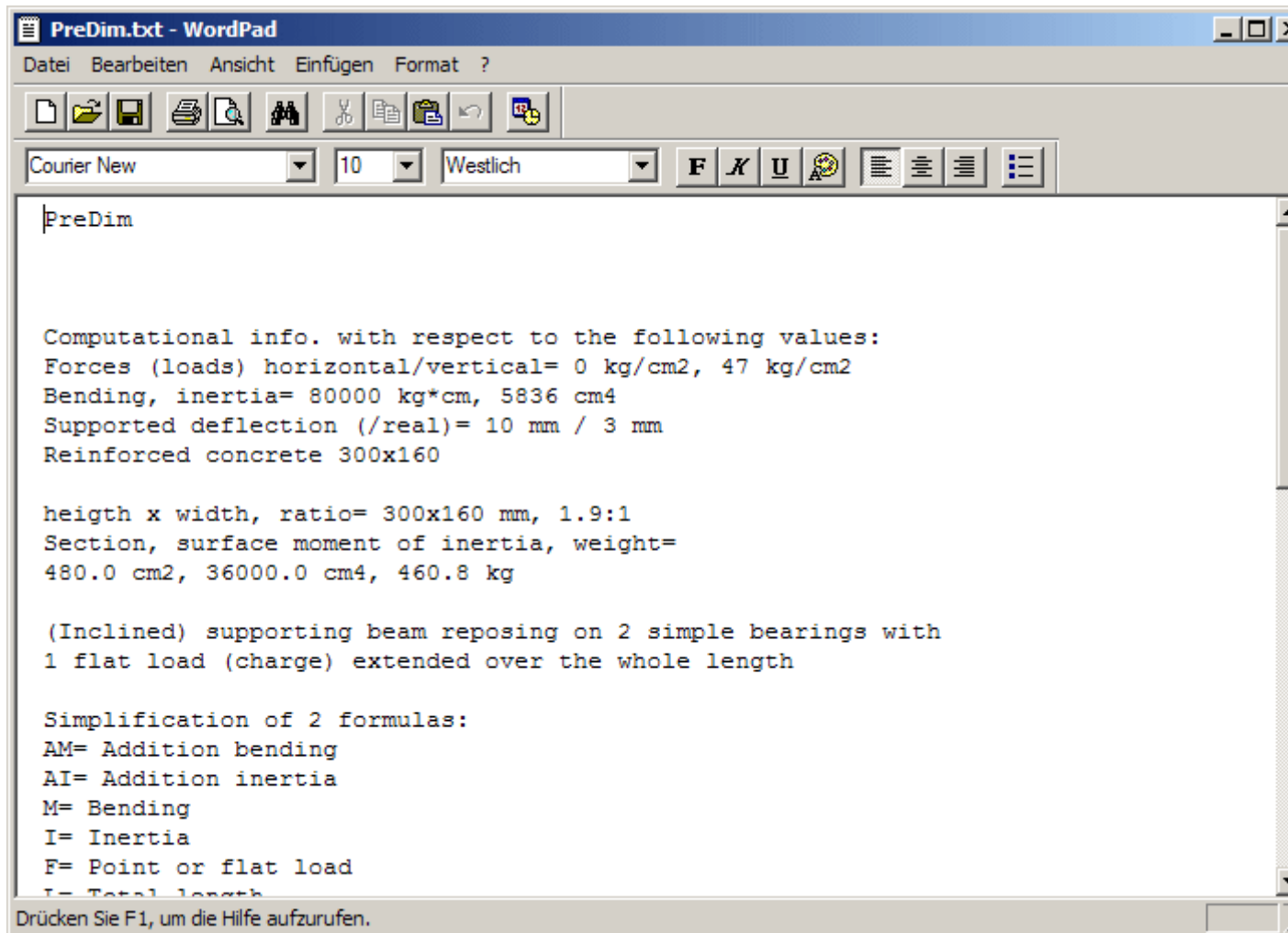
Get to know more about PreDim

17th Argument: Printing & editing of results

PreDim draws up a text data file (entirely compatible with format .TXT) in which all details of calculation and profiles are given. Change this details according to your preferences or print them straight away. From version 6.9 onwards the graphs & texts can be directly observed, edited, exported & printed.

Not convinced yet?

Get to know more about PreDim



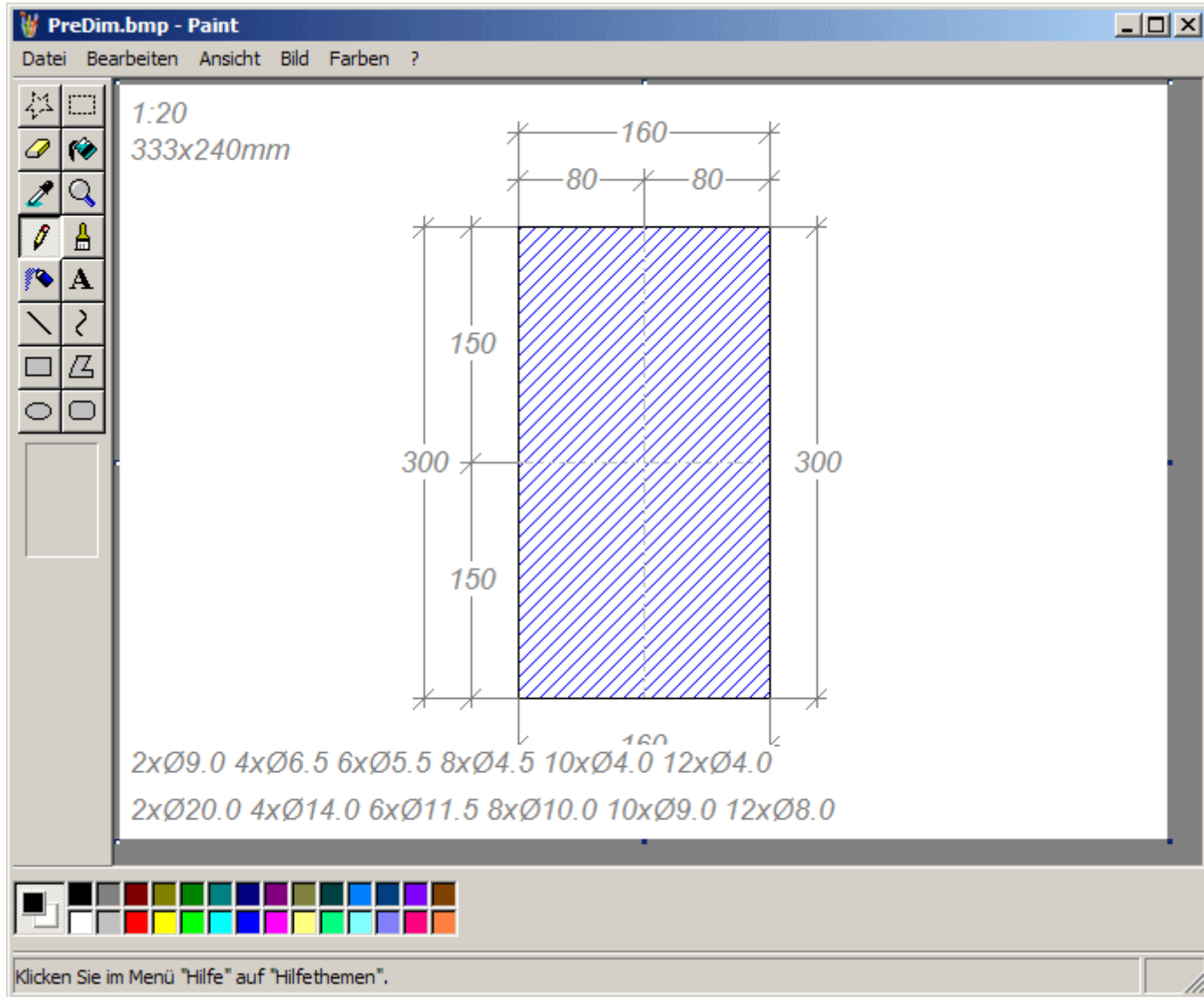
18th Argument: Graphical version

PreDim displays the results not only as a text data file but also as a graphic data file (.BMP). The size of the graph can easily be attained by enlarging with help of the mouse the window. 2 Graphs will be

drawn up: One with black, the other one with white background. From version 6.9 onwards the graphs and texts can be directly observed, edited, exported and printed.

Not convinced yet?

Get to know more about PreDim



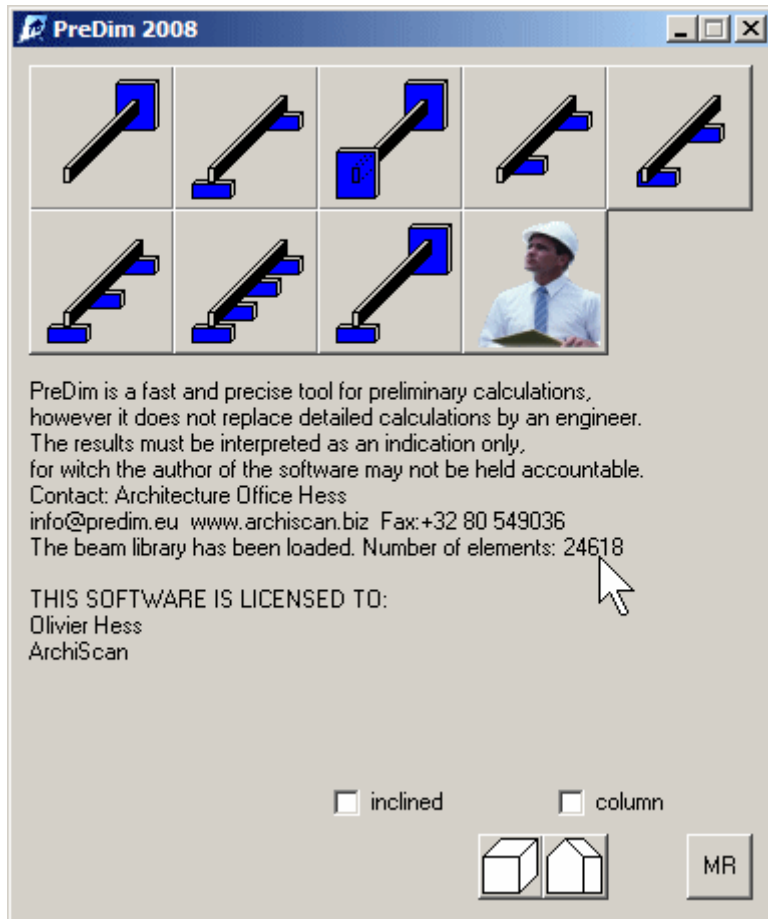
19th Argument: 24.000 profiles

(profil afsnittet profil stål ark, profilglas metal tagdækning, profilglas ark jern, profilplader i stål tagdækning plader, profiler, materielle fejl, materiale træthed, materielle fejl, materiale testingwood chip, træ spånpl.skrue, træ gulv, træ lim, træ laminat, træ fortovet, Træ-teknologi, træbeskyttelse, træ-fibre pap, træ-frame konstruktion af træ bom, træ bygning, trægulv, træ gulv, træramme, træ ramme, træhus, træ fundamentering på pæle, træ bunke, aluminium rood kant, aluminium tagdækning ark, aluminium afsnit, aluminium plader, aluminium rullesten, aluminium tube, armeret beton gulv slab, armeret beton pipe, armeret beton tag slab, armeret beton, forstærket-beton bom, styrket-beton kolonne, styrket-beton byggeri, styrket-beton konstruktør, styrket-beton gulvet, styrket-beton fundament, forstærket af konkrete rammer, styrket-beton bjælke, forstærket-beton bunke, forstærket-beton pipe, forstærket-beton skelet, forstærket-konkret struktur)

The PreDim profil database comprises 24,000 profiles with 82 different types in the 6 materials steel, wood, layer wood, reinforced concrete and aluminium. Compare within seconds all these types of materials (material choice, material characteristics,...) and do the planning more versatile.

Not convinced yet?

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20th Argument: Help texts & help videos

PreDim comprises 3 help texts and help videos in German, English, French and Dutch. Lean back and learn to use PreDim within 10 minutes.

Not convinced yet?

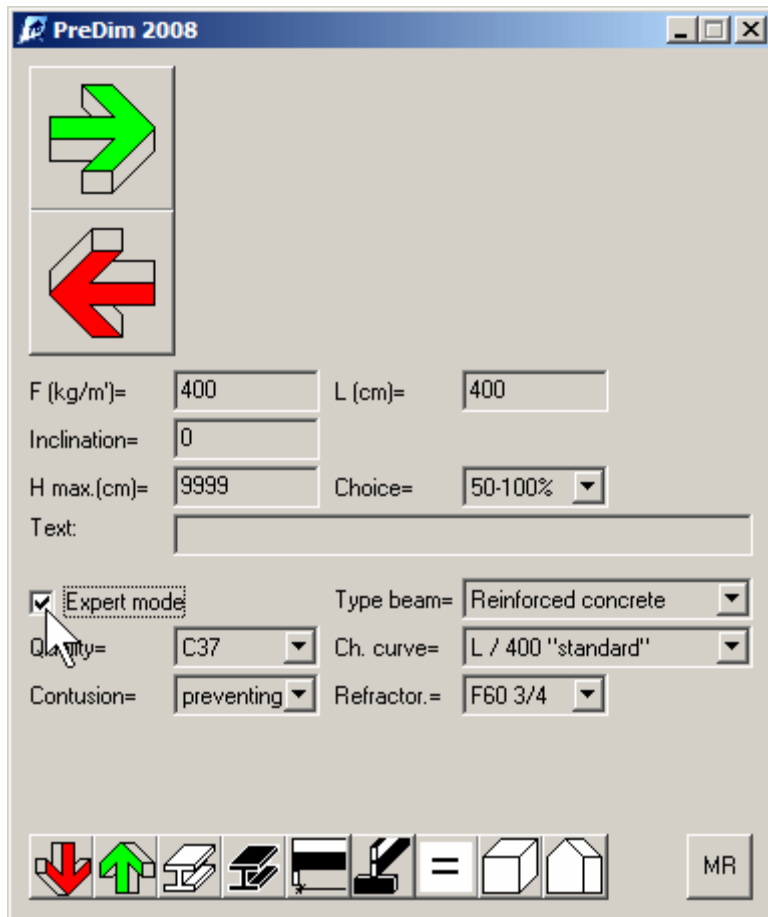
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21th Argument: Expert mode

PreDim simplifies the input mode according to your specific knowledge (of the program). Range: Easy for statics layman up to details for statics engineers.

Not convinced yet?

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22th Argument: Cooperation with statics expert

PreDim is being developed from version 6.8 onwards with a statics engineer. Advantages are next to improved security also a more precise calculation and innovative products.

Not convinced yet?

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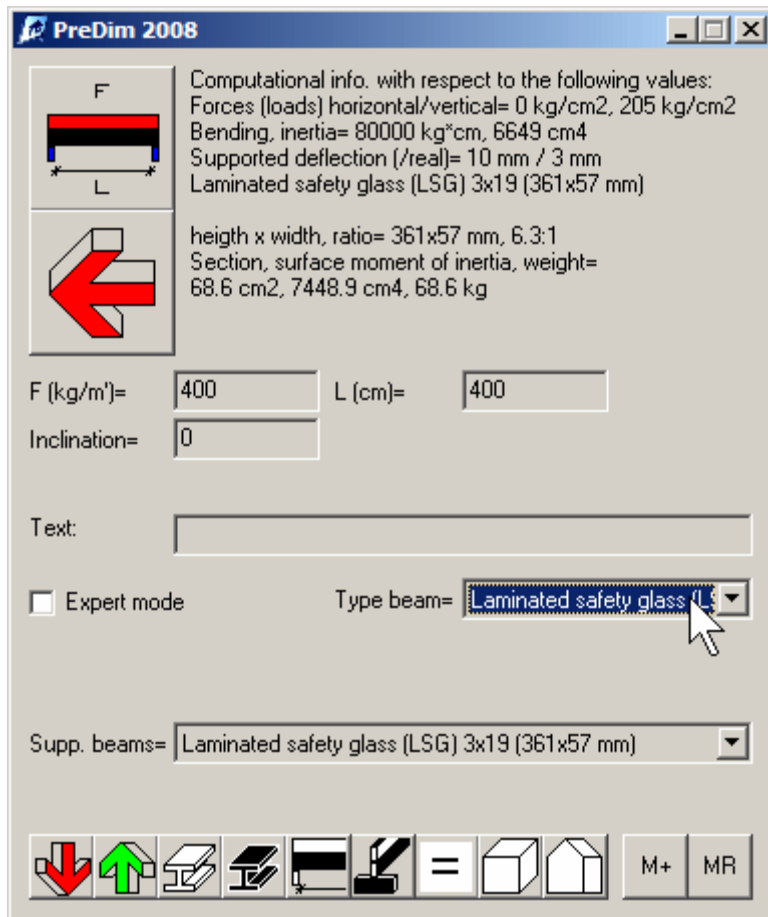
23th Argument: Profils in laminated security glass (experimental LSG)

(glas bar, glas blok, glas, beton, glas facade, glas fiber, glas panel, glastag beklædning, glastag flise, glastag, glas størrelse, glas tykkelse, glasvæg bygning enhed, glas væg, glas vindue, glas-beton panel, Glas-beton tag stålplader, glas-indhegnet, drivhusets bygning, glaspusterier)

PreDim calculates profiles in laminated security glass, consisting of a combination of 12 mm stored in a hot place single layer security glass (ESG-H) attached to each other with a foil of polyvinylbutyral (PVB) according to the new specifications ASTM international (ASTM 1036, ASTM C1048,...). The external single layer security glass have got only a protection function, but no static function!

Not convinced yet?

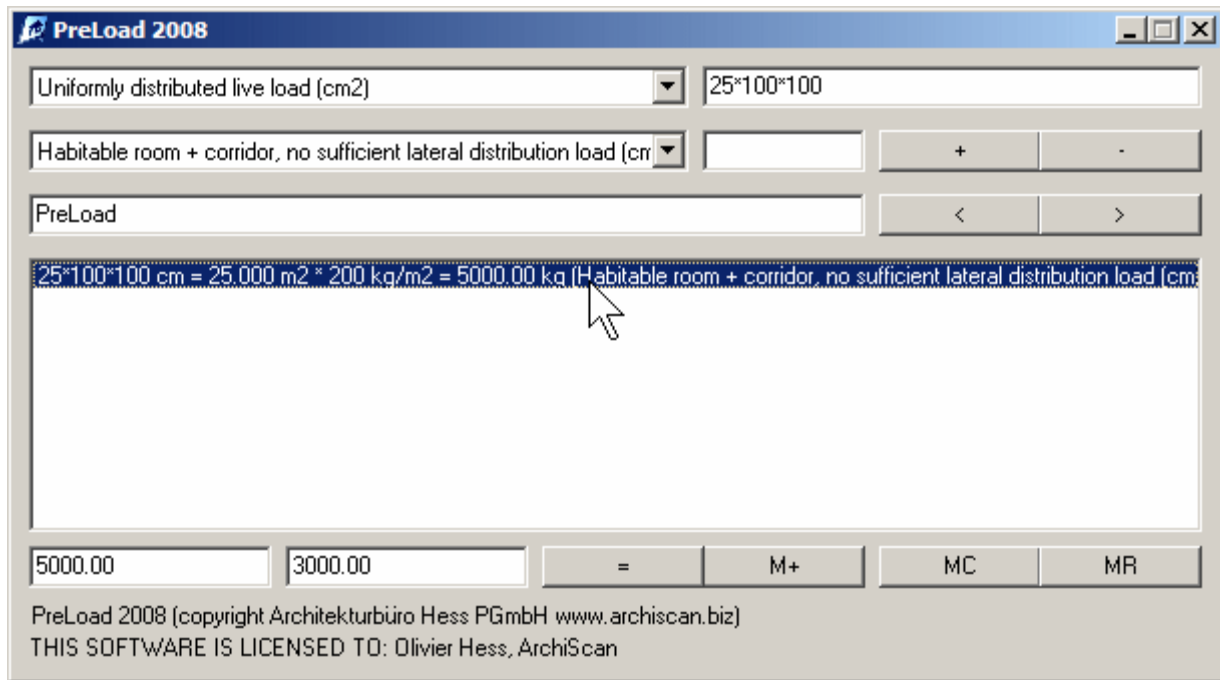
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24th Argument: Load calculation

PreLoad is a sophisticated load calculation for dead load, wind load, snow load with automatic calculation of the load under influence of fire. Hence PreDim consists of 2 programs which cooperate with each other.

Not convinced yet?
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25th Argument: Project "Virtual construction"

Topical: Project "Virtual construction" WTCB / BBRI (Belgian building research institute)
 ArchiScan (PreDim) cooperates with the WTCB / BBRI-project "Virtual construction" (ViBo). PreDim is being demonstrated within this project.

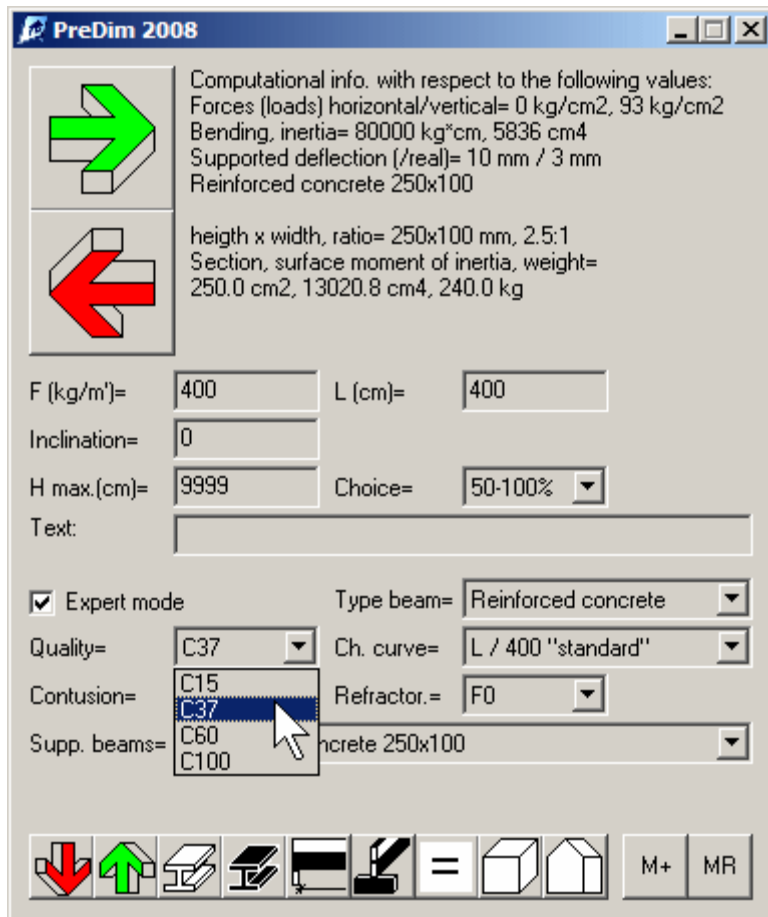
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26th Argument: Input static material quality

By input of the static material quality PreDim considers the different material characteristics of steel (S235, S275, S355, S420), wood (S7, S10, S13, S17) and reinforced concrete (C15, C37, C60, C100).

Not convinced yet?
 Get to know more about PreDim



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