SDC VERIFIER

Tutorial

AISC 360-10 & Eurocode3

Updated on: 8 Jun 2023

Tested with: SDC Verifier 2023 R1

Femap version 2022.1

Preface

- In this tutorial, AISC 360-10 & Eurocode3 Beam Design Checks are reviewed in details.

- A beam model structure has been used as a start FEM model.

- Beam member finder was used to recognize beam member dimensions.

- Report was automatically generated in SDC Verifier Report to represent beam checks results according AISC 360-10 & Eurocode3 standards.
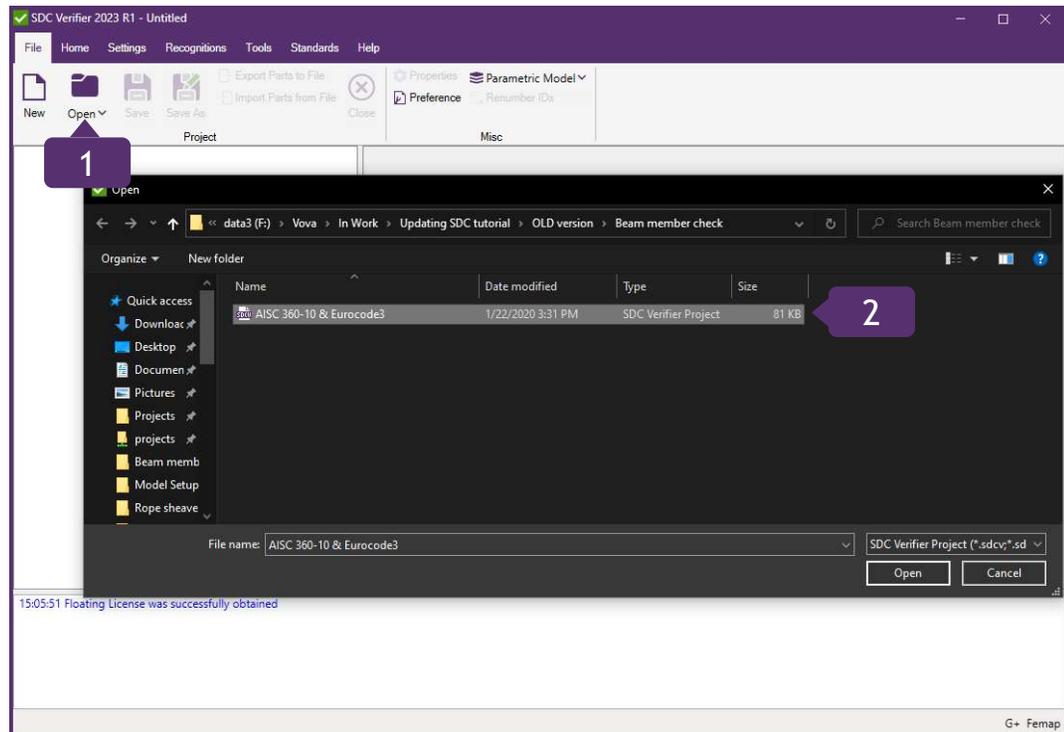
# Launch SDC Verifier

1   *Launch **SDC Verifier***

2   Execute *File – Open Project*

3   Project: *AISC 360-10 & Eurocode3.sdcv*

- ▷ ⦿ Views (1)
- ▷ ⊞ Model
- ▷ ⊞ Recognition
- ◢ ⊞ Jobs (1)
  - ◢ ⊞ 1..Static Structural
    - ◢ 👥 Individual Loads (6)
      - 👥 1..Gravity -9.81.Legs.Fixed
      - 👥 2..Force Down.Legs.Fixed
      - 👥 3..Force Top.Legs.Fixed
      - 👥 4..Middle.Legs.Fixed
      - 👥 5..Wind X.Legs.Fixed
      - 👥 6..Wind Y.Legs.Fixed
    - ◢ ✛ Load Sets (4)
      - ✛ 1..Load Set 1
      - ✛ 2..Load Set 2
      - ✛ 3..Load Set 3
      - ✛ 4..Load Set 4
    - ◢ ↓↓↓ Load Groups (1)
      - ↓↓↓ 1..Load Group 1
    - FG Fatigue Groups (0)
    - ⊞ Tables (0)
    - 🔧 Plots (0)
- ▷ 🛠 Tools
- S Standards (0)
- ▷ 📊 Post-Processing
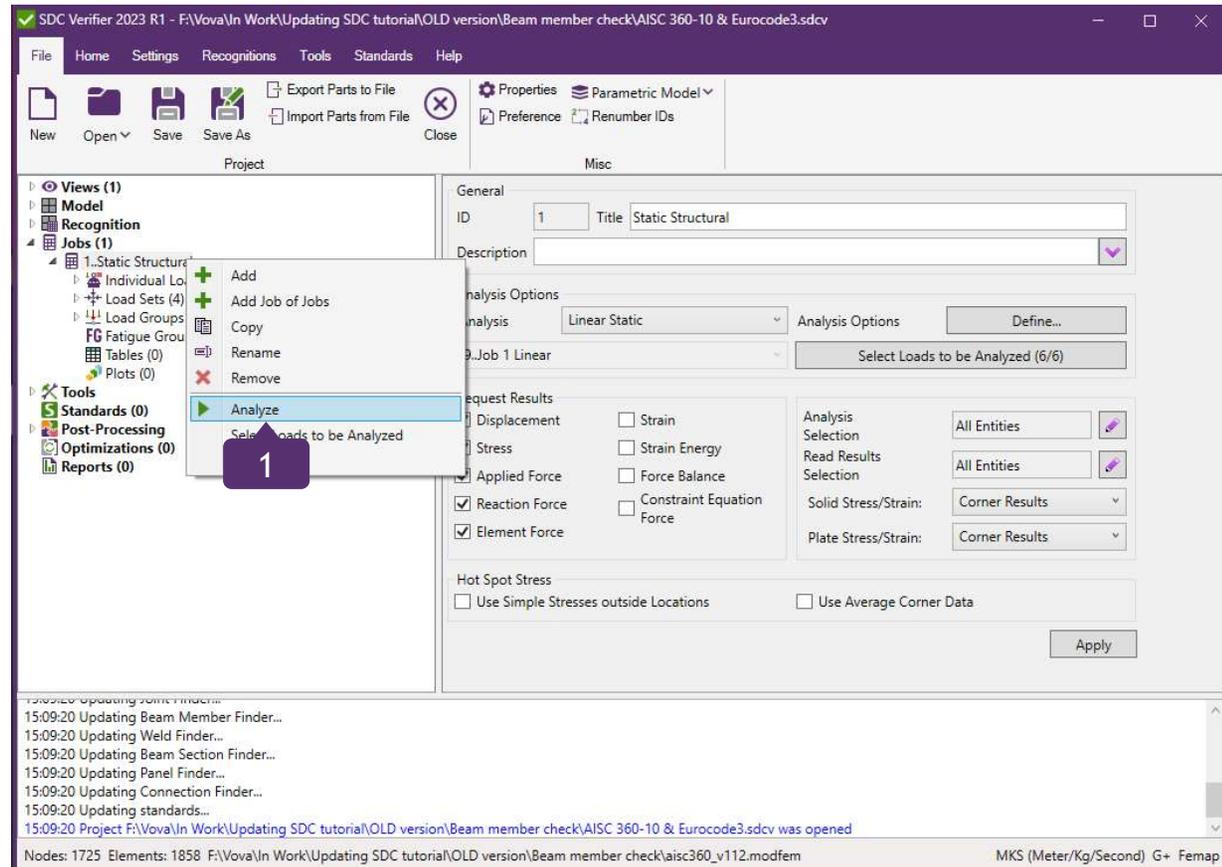- 🗘 Optimizations (0)
- 📊 Reports (0)
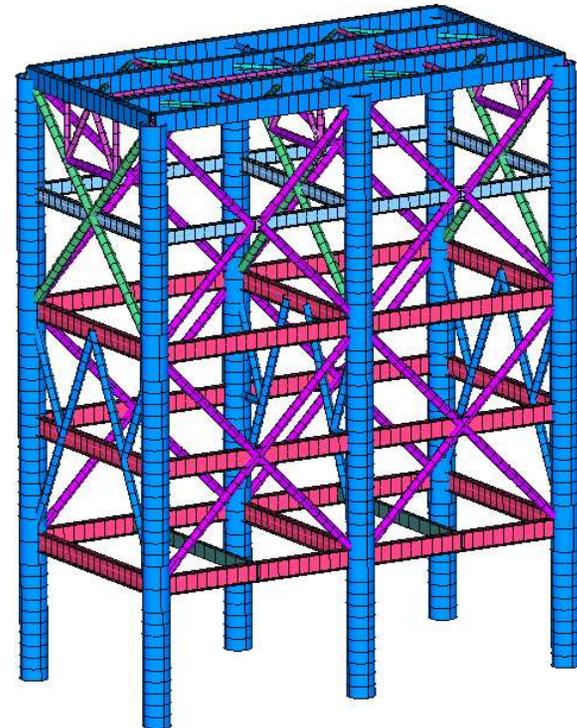
This tutorial uses project with predefined boundary condition, load combinations and load group.
The model contains only beam elements of the following types: I-Beam, Circular and Rectangular Tubes

Analyze Job

1 Execute ▶ Analyze from
Static Structural context menu

Joint – location where different beam members connect. They are used to recognize beam member
length by Beam Member Finder Tool.

There are 6 types of Joints:
1D Joint – 2 beam members that lie on the curve but with different properties;
2D Joint – beam members connected in one plane;
3D Joint – beam members connected in space;

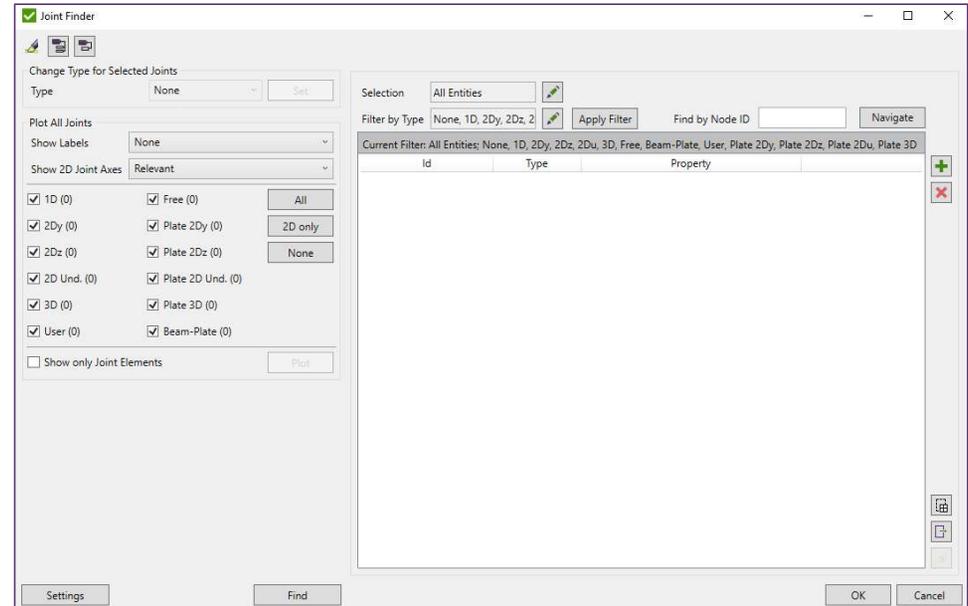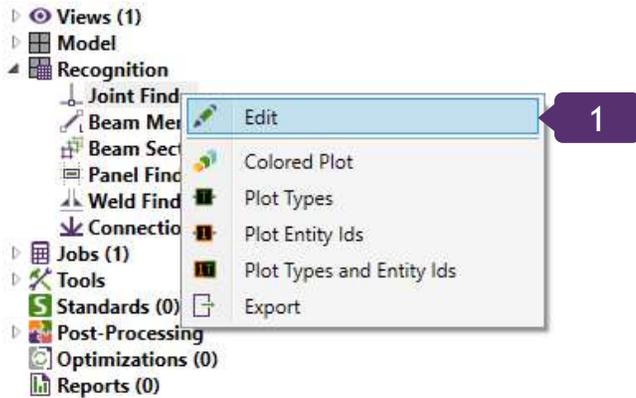Free Joint – node which belongs only to one element (free);
Beam-Plate Joint – beam member connected to plates (perpendicularly); User Defined;
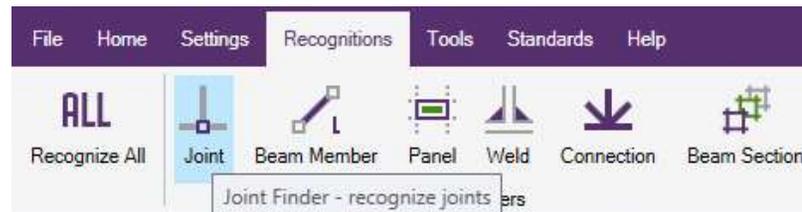
https://sdcverifier.com
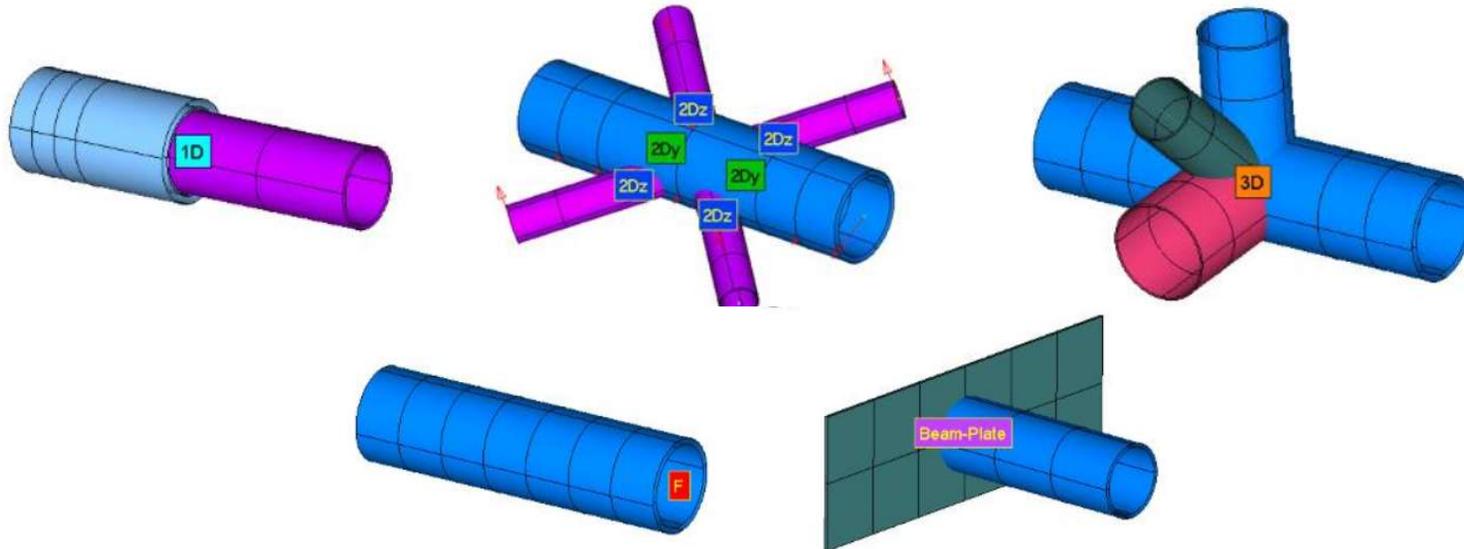
Joint Recognition

1 Execute *Edit* from *Joint Finder* context menu

2 Press *Find*.

- ▷ 👁 Views (1)
- ▷ ▦ Model
- ▲ ▦ Recognition
  - ↳ Joint Find
  - ⟋ Beam Mer
  - ⊞ Beam Sec
  - ▭ Panel Fin
  - ⟋⟍ Weld Find
  - ↯ Connectio
- ▷ ▦ Jobs (1)
- ▷ ⚒ Tools
- S Standards (0)
- ▷ ▦ Post-Processing
- Optimizations (0)
- ▥ Reports (0)

Context menu:
- ✎ Edit
- Colored Plot
- Plot Types
- Plot Entity Ids
- Plot Types and Entity Ids
- Export

It is possible go to *Recognitions* on Ribbon tab and press *Joint:*

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Joints Plot

1 Select All Joints (Ctrl+A).

2 Press 🔧 and execute 🔧 Plot Joint Type in Colors

3 Press *OK*.
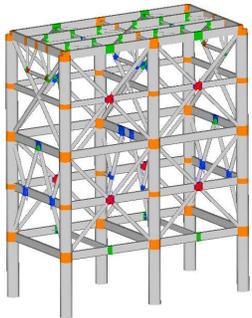
Modify Joint Type

Plot Joints of specific type

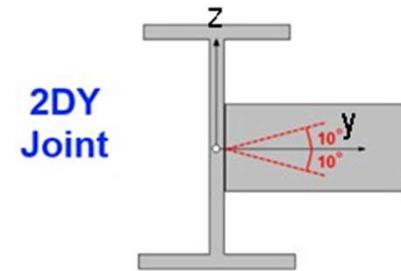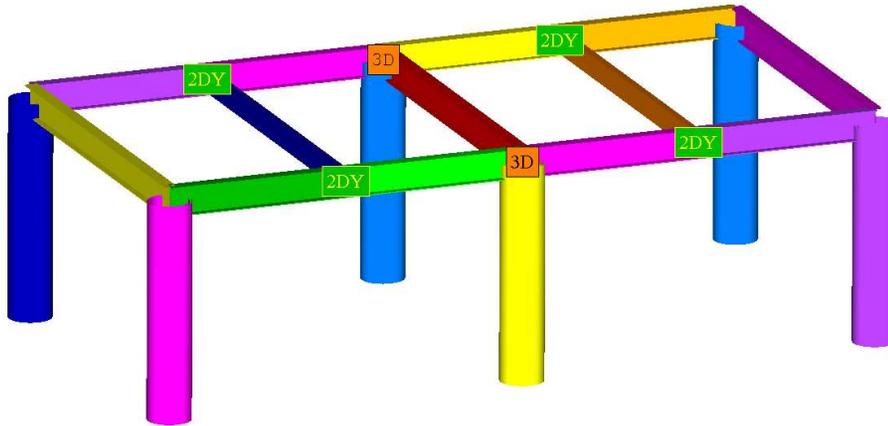Joint Finder

Change Type for Selected Joints
Type   None   Set

Plot All Joints
Show Labels   None
Show 2D Joint Axes Relevant

☑ 1D (0)   ☑ Free (0)   All
☑ 2Dy (30)   ☑ Plate 2Dy (0)   2D only
☑ 2Dz (28)   ☑ Plate 2Dz (0)   None
☑ 2D Und. (14)   ☑ Plate 2D Und. (0)
☑ 3D (39)   ☑ Plate 3D (0)
☑ User (0)   ☑ Beam-Plate (0)

☐ Show only Joint Elements   Plot

Selection   All Entities
Filter by Type None, 1D, 2Dy, 2Dz, 2... Apply Filter   Find by Node ID   Navigate

Current Filter: All Entities; None, 1D, 2Dy, 2Dz, 2Du, 3D, Free, Beam-Plate, User, Plate 2Dy, Plate 2Dz, Plate 2Du, Plate 3D

Id	Type	Property
Node ID = 3	3D	
Node ID = 4	3D	
Node ID = 5	3D	
Node ID = 6	3D	
Node ID = 7	3D	
Node ID = 22	3D	
Node ID = 23	3D	
Node ID = 24	3D	
Node ID = 68		
Node ID = 117	3D	
Node ID = 136	3D	
Node ID = 155	3D	
Node ID = 165	3D	
Node ID = 201	3D	
Node ID = 202	3D	
Node ID = 231		
Node ID = 237	2Dy	
Node ID = 243	2Dy	
Node ID = 251	2Dy	
Node ID = 258		
Node ID = 265		

Settings   Find   OK   Can

Plot Joint Type Labels
Plot Joint Type in Colors

O: 1
C1: 300087 / 300088 2Dy   2Dz   2Du   3D

3   2

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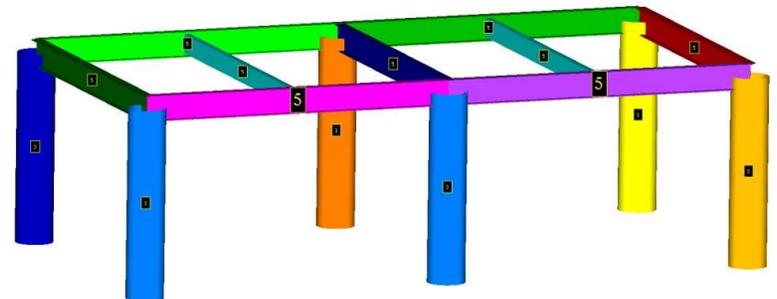# Beam Member Lengths in 2 directions

Beam Member Finder recognizes beam members and (buckling) lengths for different directions (Y, Z and Torsional).

2DY Joint

Length Y – 4 Beam Members with L = 2.5
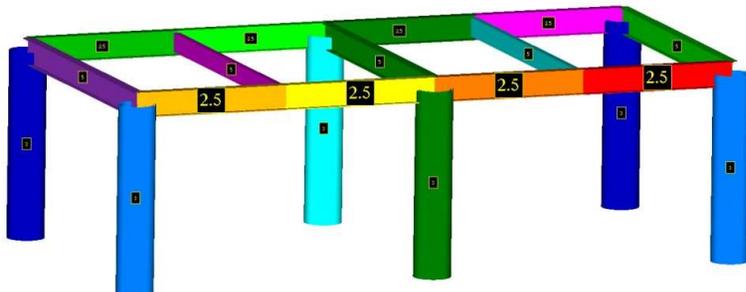
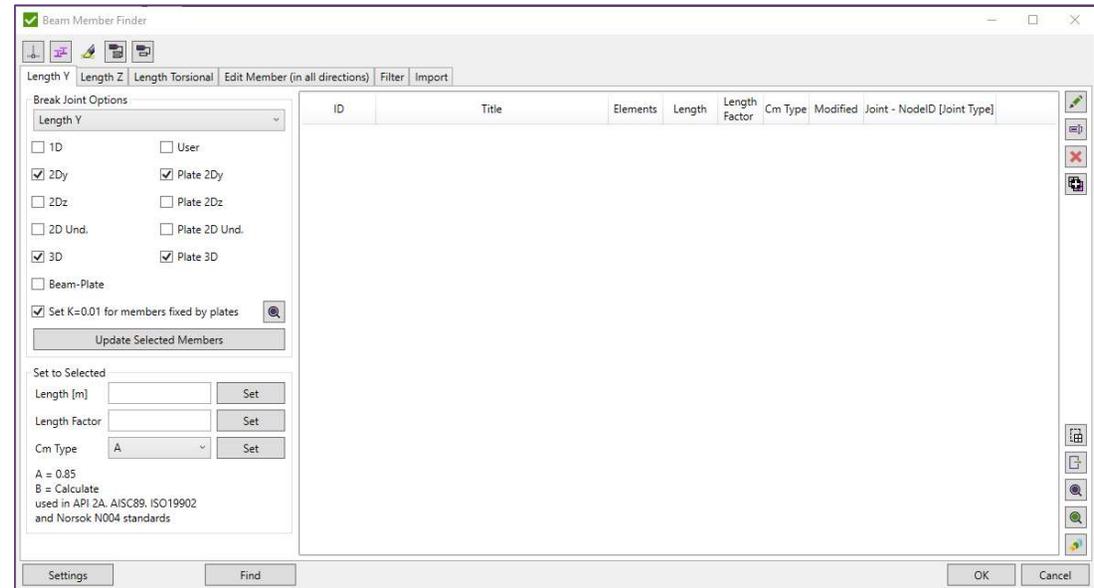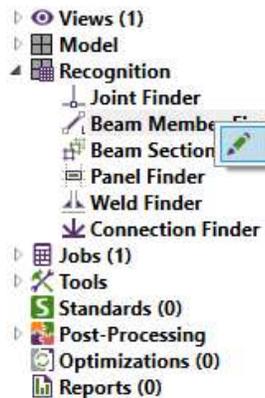Length Z – 2 Beam Members with L = 5

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Recognize Length

1 Execute *Edit* from *Beam Member Finder* context menu

2 Press *Find*.

Default *Break Joint Options* for Tabs:

Length Y: **2DY, 3D, Plate 2DY, Plate 3D**

Length Z: **2DZ, 3D, Plate 2DZ, Plate 3D**

Length Torsional: **2DY, 2DZ, 2D Und, 3D**

It is possible to open it another way - go to *Recognitions* tab in Ribbon and press *Beam Member*:

10
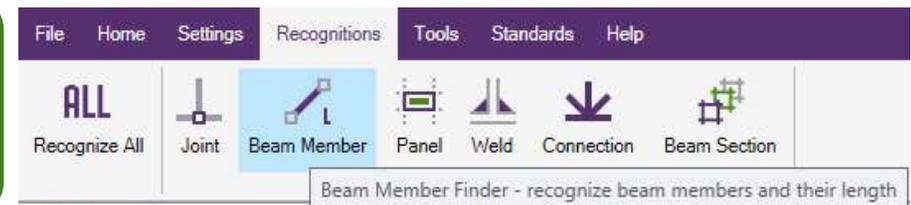
Beam Member's Length Plot

Beam Member - a straight line. If it contains joints it is split on sub members.

Break Options define what joints are used to split beam members

Change Length/Factor for selected beam members

Cm Type is used in API 2A, ISO 19902 and Norsok N004 standards

Press Settings to define recognition options: selection, default title

Press Find to automatically recognize Beam Members and Sub Members for all 3 directions (Y, Z and torsional)

Colored Plot of members with labels (ID, Length, Factor or Cm Type).

Sub beam members

Break Joint Options define which types of joints will be used to split Beam Member on sub members. There are 3 predefined Break Joint Options (Length Y, Length Z, and Torsional) and custom.

Sub members from table on a plot:

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1 Select all Beam Members (Ctrl+A)

2 Press 📊 and execute
to display *Length Plot* 🔳 Plot Length labels

3 Press *OK*.
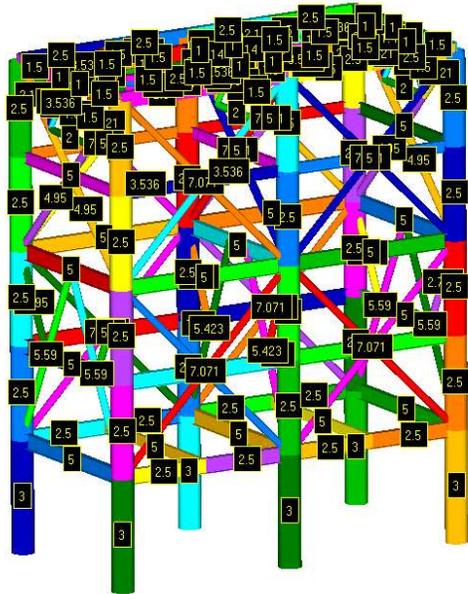
Beam Member Finder

Length Y | Length Z | Length Torsional | Edit Member (in all directions) | Filter | Import

Break Joint Options
Length Y

☐ 1D   ☐ User
☑ 2Dy   ☑ Plate 2Dy
☐ 2Dz   ☐ Plate 2Dz
☐ 2D Und.   ☐ Plate 2D Und.
☑ 3D   ☑ Plate 3D
☐ Beam-Plate
☑ Set K=0.01 for members fixed by plates

Update Selected Members

Set to Selected
Length [m] [ ] Set
Length Factor [ ] Set
Cm Type [A] Set

A = 0.85
B = Calculate
used in API 2A. AISC89. ISO19902
and Norsok N004 standards

ID	Title	Elements	Length	Length Factor	Cm Type	Modified	Joint - NodeID [Joint Type]
⊞ 1	Beam Member 1 (Y)	47	13				1107[3D] 155[3D] 1104[3D] 4[3D]
⊞ 2	Beam Member 2 (Y)	47	13				1109[3D] 136[3D] 1108[3D] 117[3D]
⊞ 3	Beam Member 3 (Y)	32	10				1090[2Dz] 22[3D] 2208[2Dz]
⊞ 4	Beam Member 4 (Y)	32	10				1100[2Dy] 1117[3D] 2218[2Dy]
⊞ 5	Beam Member 5 (Y)	18	5				6[3D] 24[3D] 7[3D]
6	Beam Member 6 (Y)	12	5	1	A		
⊞ 7	Beam Member 7 (Y)	40	10				231[2Dy] 237[2Dy] 243[2Dy] 3[3D] 1361[2Dy] 1355[2Dy] 1349[2Dy]
⊞ 8	Beam Member 8 (Y)	40	10				251[2Dy] 258[2Dy] 265[2Dy] 5[3D] 1383[2Dy] 1376[2Dy] 1369[2Dy]
⊞ 9	Beam Member 9 (Y)	18	5				271 237[2Dy] 258[2Dz]
⊞ 10	Beam Member 10 (Y)	40	10				271 23[3D] 1389
⊞ 11	Beam Member 11 (Y)	26	7.071				243[2Dy] 23[3D] 1383[2Du]
12	Beam Member 12 (Y)	13	3.536	1	A		231[2Du]
⊞ 13	Beam Member 13 (Y)	13	3.535				251[2Dy]
⊞ 14	Beam Member 14 (Y)	26	7.071				265[2Du] 23[3D] 1361[2Dy]
⊞ 15	Beam Member 15 (Y)	45	14.143				1090[2Dy] 1105[3D] 2232[2Du]
16	Beam Member 16 (Y)	23	7.071	1	A		1090[2Dz]
⊞ 17	Beam Member 17 (Y)	36	10				1105[3D]
⊞ 18	Beam Member 18 (Y)	32	10				1114[2Dz] 165[3D] 2232[2Dy]
⊞ 19	Beam Member 19 (Y)	36	10				381[2Dy] 1106[3D] 932[2Dy]
20	Beam Member 20 (Y)	22	7.071	1	A		1114[2Du]
⊞ 21	Beam Member 21 (Y)	45	14.143				1114[2Du] 1105[3D] 2208[2Dy]
22	Beam Member 22 (Y)	5	1.5	1	A		

Settings   Find

OK   Cancel

Context menu:
- 🔵 Plot selected members
- 🟧 Plot Length Criteria
- 🟥 Plot Members ID Labels
- Plot Full Members ID Labels
- 🟩 Plot Length Labels
- Plot Cm Type Labels
- Plot Length Factor Labels
- Plot Joints for Selected Members
- Plot Members Y and Z axes
- Plot Length Labels in Y and Z axes

3   **2**

2

- 🔵 Plot selected members
- 🟧 Plot Length Criteria
- 🟥 Plot Members ID Labels
- 🟥 Plot Full Members ID Labels
- 🟩 Plot Length Labels
- Plot Cm Type Labels
- Plot Length Factor Labels
- Plot Joints for Selected Members
- Plot Members Y and Z axes
- Plot Length Labels in Y and Z axes

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STEEL CONSTRUCTION MANUAL

AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC.

THIRTEENTH EDITION

About AISC 360-10:

- ANSI/AISC 360-10 - an American national standard "Specification for Structural Steel Buildings", released on June 22, 2010.
- Checks are performed according to the provisions for load and resistance factor design (LRFD) and allowable strength design (ASD).
- The standard implements checks for design of members for tension, compression, bending, shear and combined.

Specification for Structural Steel Buildings

March 9, 2005

Supersedes the *Load and Resistance Factor Design Specification for Structural Steel Buildings* dated December 27, 1999, the *Specification for Structural Steel Buildings—Allowable Stress Design and Plastic Design* dated June 1, 1989, including Supplement No. 1, the *Specification for Allowable Stress Design of Single-Angle Members* dated June 1, 1989, the *Load and Resistance Factor Design Specification for Single-Angle Members* dated November 10, 2000, and the *Load and Resistance Factor Design Specification for the Design of Steel Hollow Structural Sections* dated November 10, 2000, and all previous versions of these specifications.

Approved by the AISC Committee on Specifications and issued by the AISC Board of Directors

AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.
One East Wacker Drive, Suite 700
Chicago, Illinois 60601-1802

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It is possible to check a design according to load and resistance factor design (LRFD) or allowable strength design (ASD). The difference between 2 designs is in load combinations and resistance factors:

Resistance Factors

	LRFD	ASD
	○ LRFD ● (selected)	○ LRFD ● ASD (selected)
Tension (F_t)	0.9	0.6
Tensile Rupture (F_tr)	0.75	0.5
Compression (F_c)	0.9	0.6
Shear (F_v)	0.9	0.6
Bending (F_b)	0.9	0.6
Torsion (F_tor)	0.9	0.6

Design for Strength Using Load and Resistance Factor Design (LRFD)
Design will be performed in accordance with Equation B3-1:
Ru ≤ φRn (B3-1), where:
- Ru = required strength using LRFD load combinations;
- Rn = nominal strength, specified in Chapters B through K;
- φ = resistance factor, specified in Chapters B through K;
- φRn = design strength.

Design for Strength Using Allowable Strength Design (ASD)
Design will be performed in accordance with Equation B3-2:
Ra ≤ Rn/Ω (B3-2), where:
- Ra = required strength using ASD load combinations;
- Rn = nominal strength, specified in Chapters B through K;
- Ω = safety factor, specified in Chapters B through K;
- Rn/Ω = allowable strength.

According to the standard Design Strength is multiplied by LRFD factor and divided by ASD factor.
For tensile yielding in the gross section:

$$P_n = F_y A_g \qquad (D2\text{-}1)$$
$$\phi_t = 0.90 \text{ (LRFD)} \qquad \Omega_t = 1.67 \text{ (ASD)}$$

In SDC Verifier multiplication is always used ASD factor is converted to 1 / Sf (ASD).
For example:
tensile resistance factor **(F_t) = 1/1.67 = 0.6**.

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1 Execute *Standards => Add => AISC => AISC 360-10 Members* from context menu

2 Resistance Factors: *LRFD*
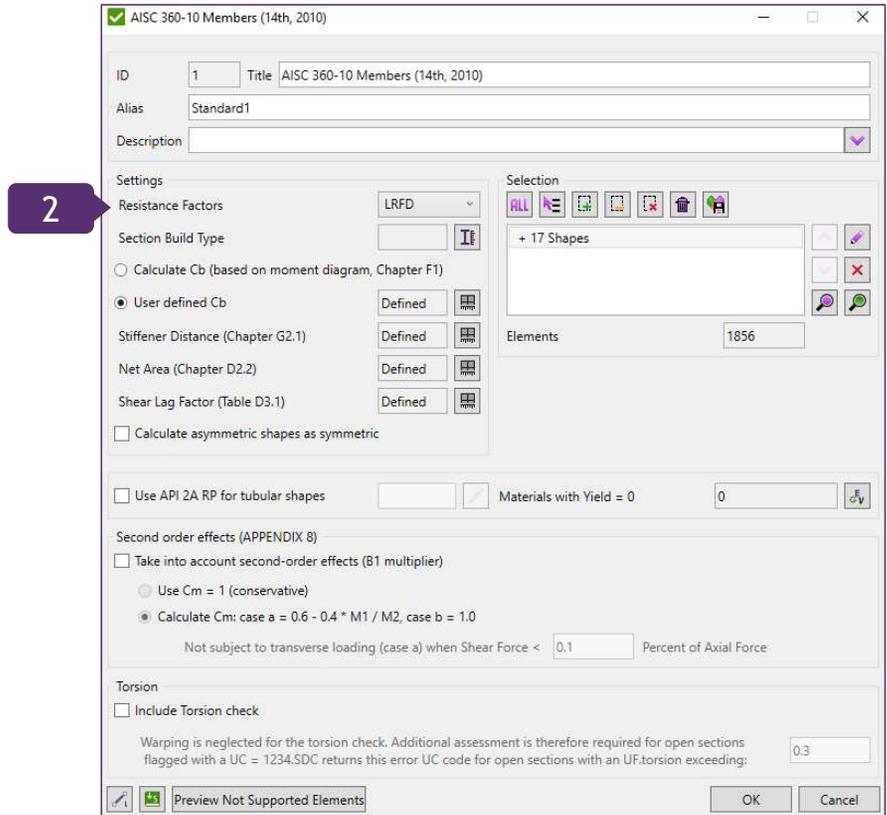
Section Build Type

1 Press ⅠⅠ for *Section Build Type*

2 Build Type: *Rolled*

3 Select *To All*

4 Press *OK*.
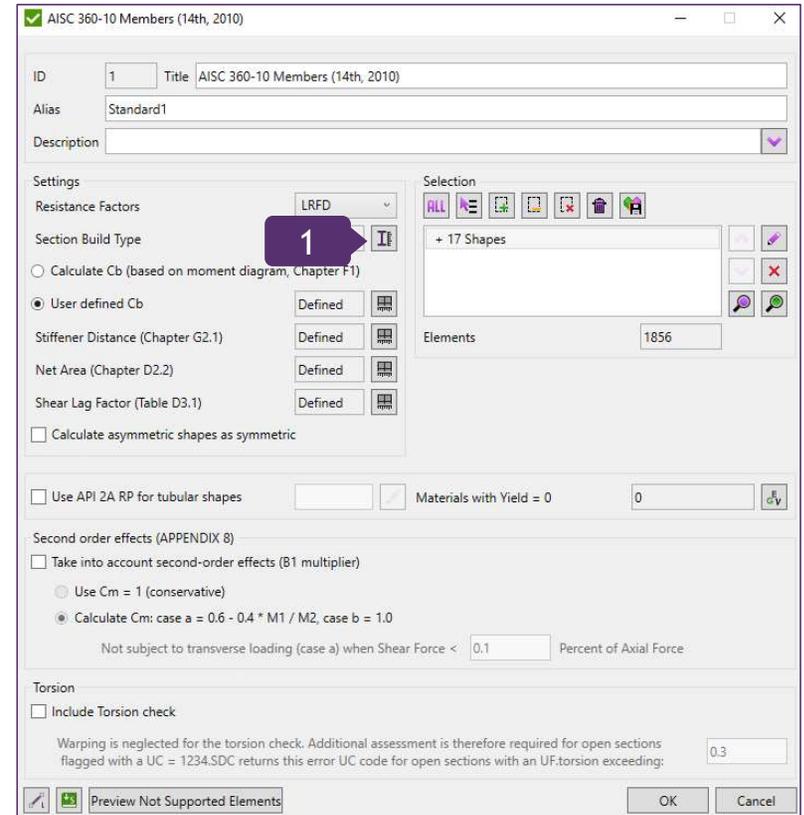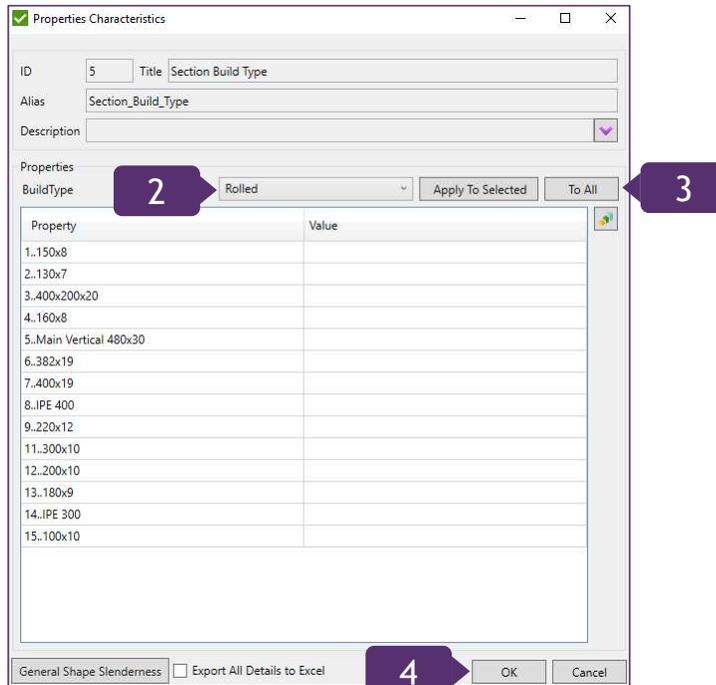
Lateral-torsional buckling factor (Cb)

1 Select – *Calculate Cb*

SDC Verifier follows conservative approach and uses Cb = 1.0. Cb is implemented as a characteristic which can be modified.
For the details see Chapter F "Design of members for Flexure", F1 General Provisions

AISC 360-10 Members (14th, 2010)

ID	1	Title AISC 360-10 Members (14th, 2010)
Alias	Standard1	
Description		

Settings

Resistance Factors — LRFD

Section Build Type — Defined

1 ⦿ Calculate Cb (based on moment diagram, Chapter F1)

○ User defined Cb — Defined

Stiffener Distance (Chapter G2.1) — Defined

Net Area (Chapter D2.2) — Defined

Shear Lag Factor (Table D3.1) — Defined

☐ Calculate asymmetric shapes as symmetric

Selection

+ 17 Shapes

Elements — 1856

☐ Use API 2A RP for tubular shapes   Materials with Yield = 0   0

Second order effects (APPENDIX 8)

☐ Take into account second-order effects (B1 multiplier)

○ Use Cm = 1 (conservative)

⦿ Calculate Cm: case a = 0.6 - 0.4 * M1 / M2, case b = 1.0

Not subject to transverse loading (case a) when Shear Force < 0.1 Percent of Axial Force

Torsion

☐ Include Torsion check

Warping is neglected for the torsion check. Additional assessment is therefore required for open sections flagged with a UC = 1234.SDC returns this error UC code for open sections with an UF.torsion exceeding: 0.3

Preview Not Supported Elements   OK   Cancel

Define Material Characteristics

1 Press [icon] to set the material yield stress and tensile strength

2 Select all Materials (Ctrl+A)

3 Tensile Strength: *360e+6*

4 Yield Stress: *240e+6*

5 Press *Set*

6 Press *OK*

7 Press *OK*

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It is possible to modify Safety Factors in Constants section.
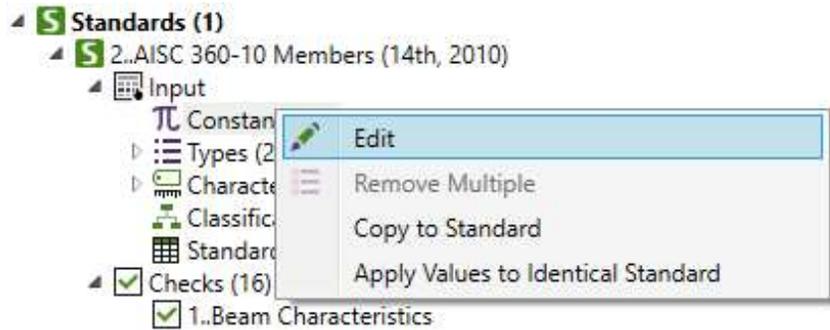
Standards (1)
  2..AISC 360-10 Members (14th, 2010)
    Input
      Constan...
        Edit
      Types (2...
        Remove Multiple
      Characte...
        Copy to Standard
      Classifica...
        Apply Values to Identical Standard
      Standard...
  Checks (16)...
    1..Beam Characteristics

Constants

Id	Title (Alias)	Value	Description
1	CalculateCb	1	Set 1 to calculate Cb based on formula (F1-1). Set 0 to u
2	SecondOrderEffect	0	Set 1 to take into account second order analysis effect (
3	PercentOfAxial	0.1	if shear force is lower than percent of axial force than m
4	CalculateCm	1	Cm will be calculated only when second analysis order
5	IncludeTorsionCheck	0	Include torsion check with neglected warping?
6	CalculateAsymmetricAsSymmetric	0	Calculate asymmetric shapes as symmetric. Min width a
7	F_t	0.9	Tension Resistance Factor
8	F_c	0.9	Compression Resistance Factor
9	F_v	0.9	Shear Resistance Factor
10	F_b	0.9	Shear Resistance Factor
11	F_tr	0.75	Tensile Rupture Resistance Factor
12	F_vl	1	Shear rolled IBeam Resistance Factor
13	F_tor	0.9	Torsional Resistance Factor
14	Alpha	1	LRFD force level adjustment factor. Used in (A-8-1)
15	UFTorsionLimit	0.3	Additional assessment on torsion is required for open s
16	UFTorsionCode	1234	Code is used for Torsional Utilization Factor when it is h
17	rolled	1	
18	built_up	2	
19	nonslender	3	
20	slender	4	
21	NotSupported	12345678	
22	compact	5	

OK   Cancel

Standards (1)
- 1..AISC 360-10 Members (14th, 2010)
  - Input
    - Constants (23)
    - Types (2)
    - Characteristic (5)
    - Classifications (0)
    - Standard Tables (0)
  - Checks (16)
    - 1..Beam Characteristics
    - 2..Circular Tube
    - 3..Rectangular Tube
    - 4..Bars
    - 5..Section C
    - 6..Section I
    - 7..Axial Strength
    - 8..Shear Strength
    - 9..Bending Strength Bars
    - 10..Bending Strength I-beams
    - 11..Bending Strength Channels
    - 12..Axial
    - 13..Shear
    - 14..Bending
    - 15..Torsion
    - 16..Overall
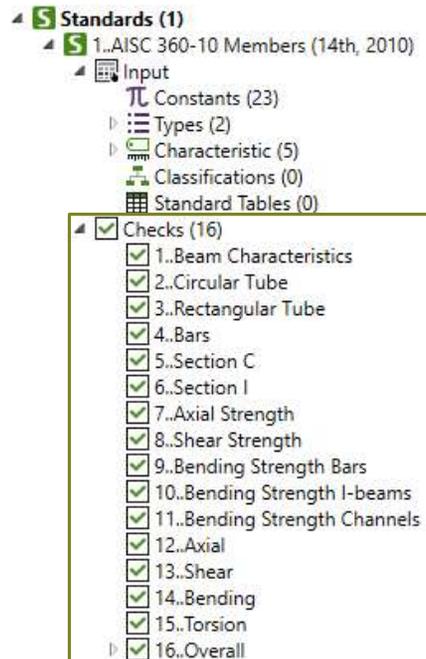
Standard contains 16 checks:

- 1 - Beam Member Characteristics;
- 2-6 - Calculation dimensions and factors for 5 different shapes;
- 7-11 – Strength for different shapes;
- 12 – Additional Axial Check;
- 13 – Additional Shear Check;
- 14 – Additional Bending Check;
- 15 – Torsion Check;
- 16 - All Checks together with combined.

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Preview Table Results

1 Execute *Overall*

2 Execute *Table (expand/extreme)* in context menu

3 Select Extreme Options - *Detailed*

4 Press *Fill Table*

5 Press *OK*

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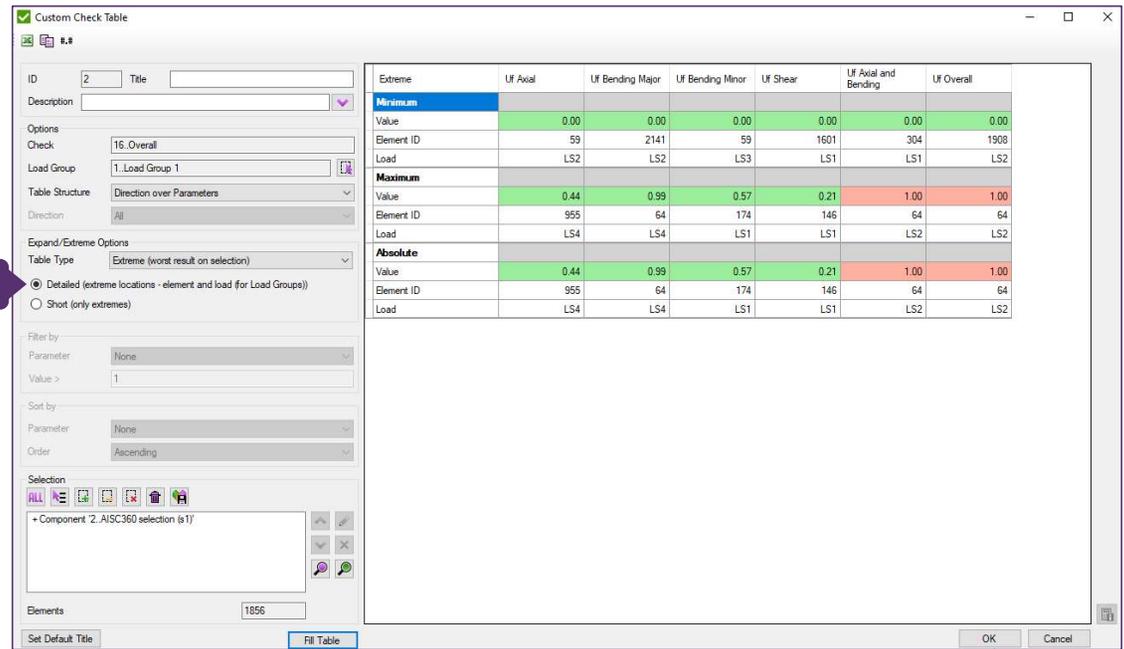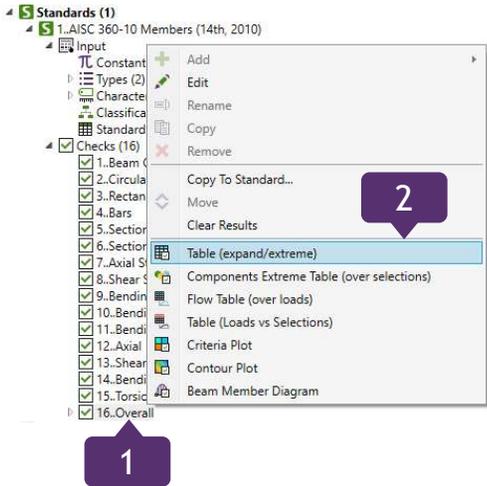
1 Select *Overall*

2 Execute *Criteria Plot* in context menu

3 Press 🖊 to edit view

4 Replace your model in Femap

5 Press *Get*

6 Press *Ok*

4 Example of view in Femap
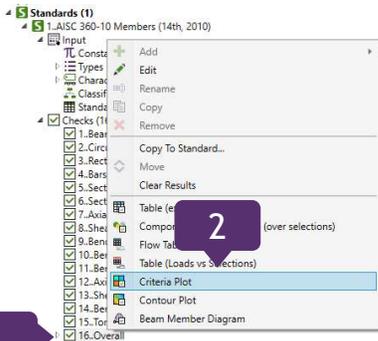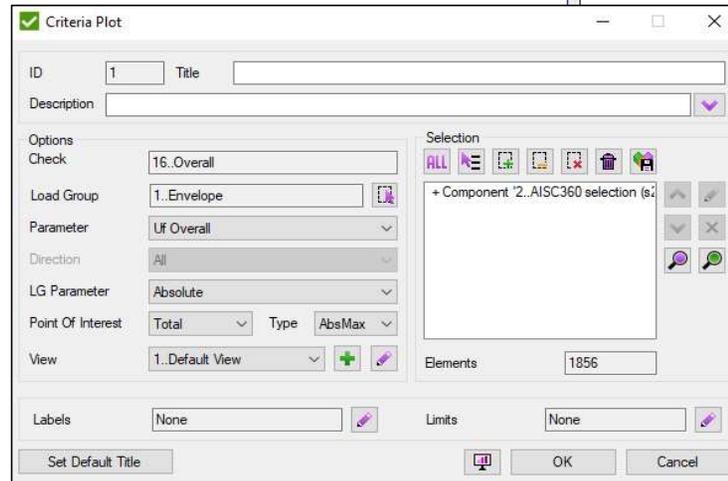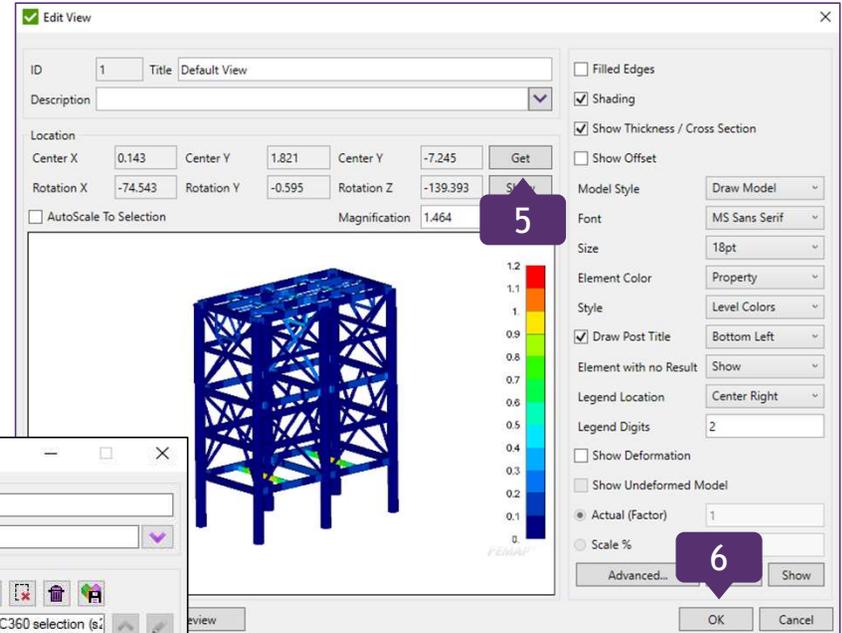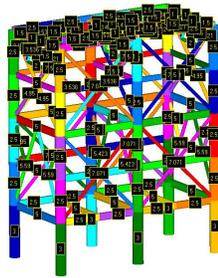
O: 1
C1: 112

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1 Select *Overall*

2 Execute *Criteria Plot* in context menu

3 Press 🖳 to preview *Plot*

4 Press *Ok* to save plot

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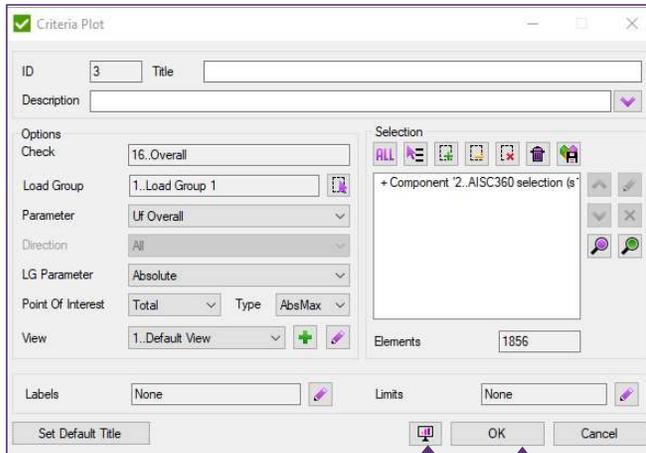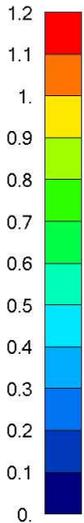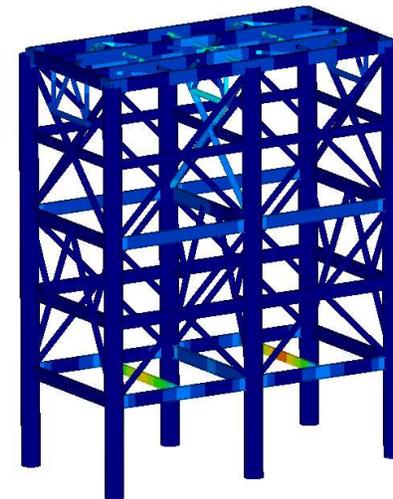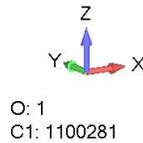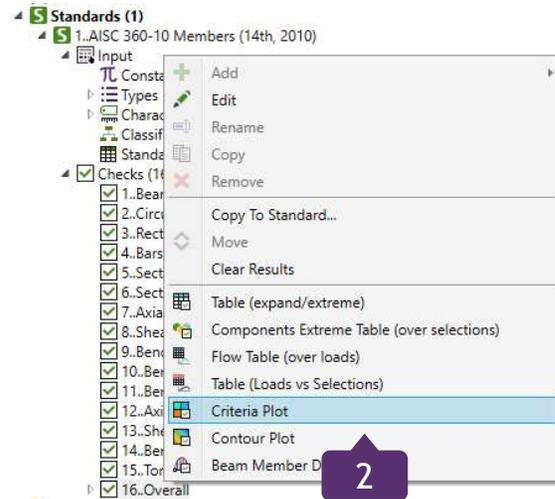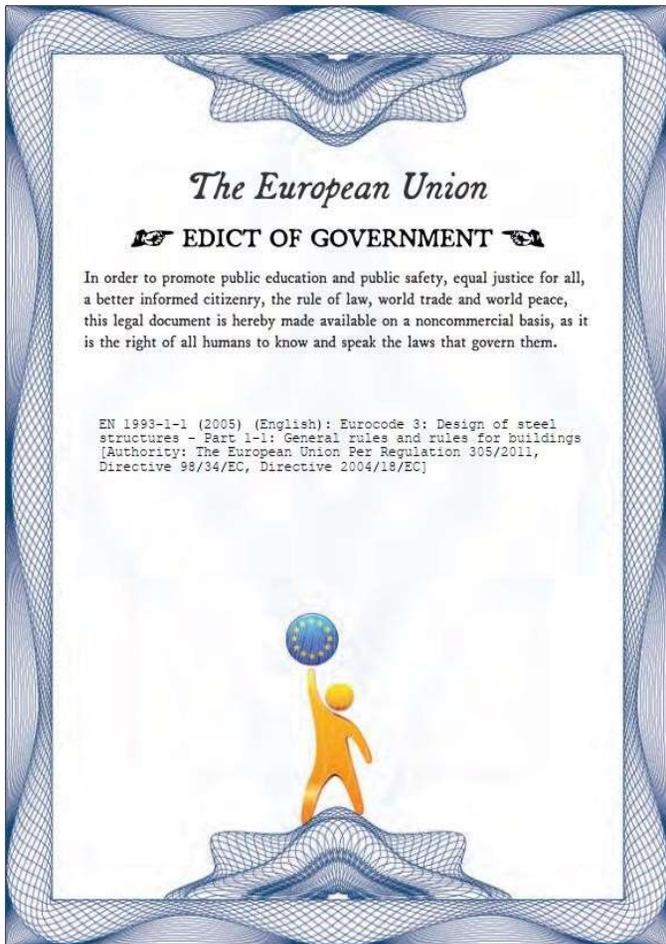
Eurocode 3: Design of steel structures - Part 1-1:
- General rules and rules for buildings.

Gm0 - resistance of cross-sections whatever the class is;
Gm1 - resistance of members to instability assessed by member checks;
Gm2 - resistance of cross-sections in tension to fracture.
λLT,0 – plateau length of the lateral torsional buckling curves for rolled sections;
β - correction factor for the lateral torsional buckling curves for rolled sections;
η - is used in the shear area calculations.

Note: All parameters may be taken from the National Annex

It is possible to choose the calculation method for Lateral Torsional Buckling: General Case (chapter 6.3.2.2), For rolled sections or equivalent welded sections (chapter 6.3.2.3) or the worst of two (min reduction factor is used from 2 methods):

Fabrication Type: Rolled/Welded; **Manufacture Type**: Hot Finished/Cold Formed
Fillets has to be defined in the characteristic (they are missing in the model);
Section Net Area - for fasteners with holes net area has to be defined;
Material Type - the buckling curve (Table 6.2) depends on the material type.
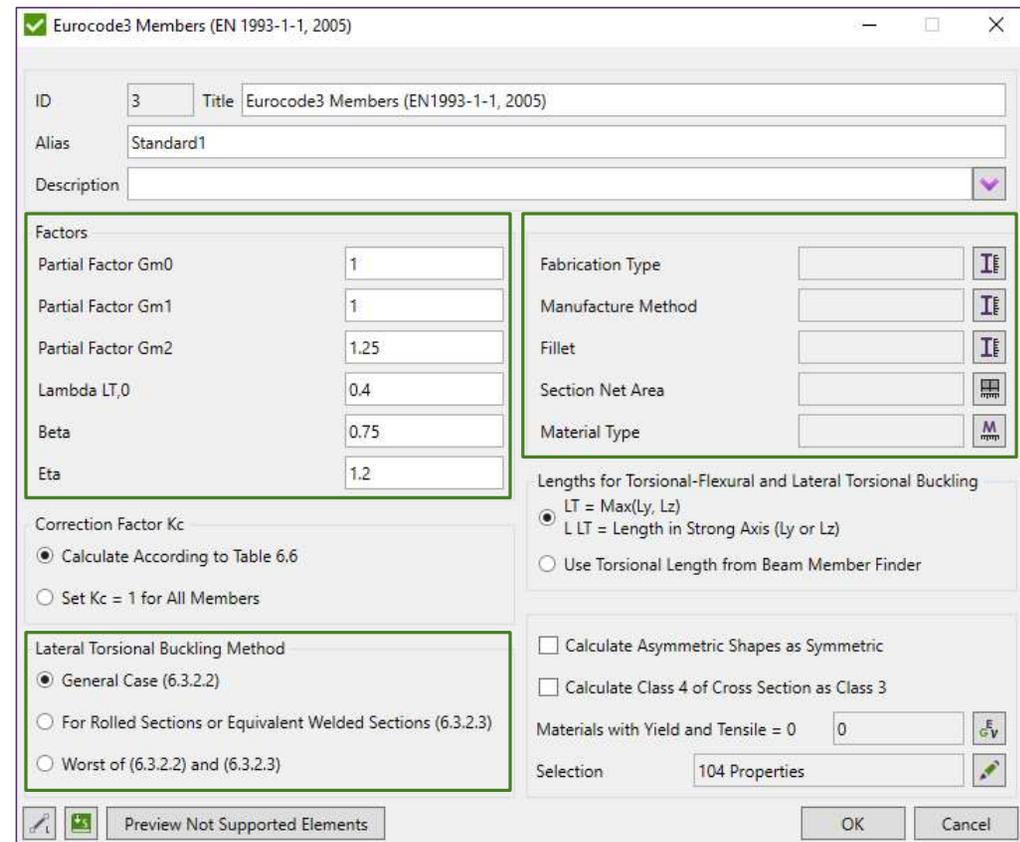
Eurocode3 Members (EN 1993-1-1, 2005)

ID 3 Title Eurocode3 Members (EN 1993-1-1, 2005)
Alias Standard1
Description

Factors
Partial Factor Gm0 — 1
Partial Factor Gm1 — 1
Partial Factor Gm2 — 1.25
Lambda LT,0 — 0.4
Beta — 0.75
Eta — 1.2

Fabrication Type
Manufacture Method
Fillet
Section Net Area
Material Type

Correction Factor Kc
⦿ Calculate According to Table 6.6
○ Set Kc = 1 for All Members

Lengths for Torsional-Flexural and Lateral Torsional Buckling
⦿ LT = Max(Ly, Lz)
   L LT = Length in Strong Axis (Ly or Lz)
○ Use Torsional Length from Beam Member Finder

Lateral Torsional Buckling Method
⦿ General Case (6.3.2.2)
○ For Rolled Sections or Equivalent Welded Sections (6.3.2.3)
○ Worst of (6.3.2.2) and (6.3.2.3)

☐ Calculate Asymmetric Shapes as Symmetric
☐ Calculate Class 4 of Cross Section as Class 3
Materials with Yield and Tensile = 0 — 0
Selection — 104 Properties

Preview Not Supported Elements — OK — Cancel

A correction Factor Kc can be calculated using the Cm Tool for each member. Also it is possible to set the Kc equal to 1.

Table 6.6: The Correction Factor:

Moment distribution	k_c
$\psi = 1$	1,0
$-1 \leq \psi \leq 1$	$\dfrac{1}{1,33 - 0,33\psi}$
	0,94
	0,90
	0,91

NOT recognized and are skipped:

	0,86
	0,77
	0,82

Member Length for Torsional and Torsional-Flexural Buckling Check (LT) by default is max among Ly and Lz lengths. For lateral torsional buckling (L LT) is length in strong axis.

It is possible to use Torsional Length from Beam Member Finder. In this case it can be modified manually by user.

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Eurocode3. Fabrication Type

SDC VERIFIER

1 Execute *Standards => Add => Eurocode3 => Eurocode3 Members*

2 Press 🔲 to set *Fabrication Type*

3 Execute **- Rolled**

4 Press *To All*

5 Press *Ok*

Eurocode3. Manufacture Method

1 Press ⟦I⟧ to set *Manufacture Method*

2 Execute – *Hot Finished*

3 Press *To All*

4 Press *Ok*

1. Press ⊞ to set *Fillet*

2. Properties Value - *0*

3. Press *To All*

4. Press *Ok*

5. Repeat Steps 1-4 for *Section Net Area*

Eurocode3. Material Type

1 Press [I] to set *Material Type*

2 Execute - *S235_S275_S355_S420*

3 Press *To All*

4 Press *Ok*

SDC VERIFIER

Standard contains 22 checks:

- 1 - Beam Member Characteristics;
- 2-10 - Calculation Dimensions and factors for 5 different shapes;
- 11 – Classification;
- 12 – Additional Shear Check;
- 13 – Axial Check;
- 14-15 – Bending, Tension And Compression Strength Check;
- 16-17 – Buckling Strength Checks ;
- 18 – Lateral Torsional Check;
- 19 – Buckling Compression And Bending;
- 20 – Forces;
- 21 – Cross Section Overall Strength Check;
- 22 – Buckling And Overall Strength Check.

https://sdcverifier.com

1 Select *Buckling and Overall*

2 Execute *Table (expand/extreme)* in context menu

3 Select Extreme Options - *Detailed*

4 Select *Overall* Load Group

5 Press *Fill Table*

6 Press *OK*

https://sdcverifier.com
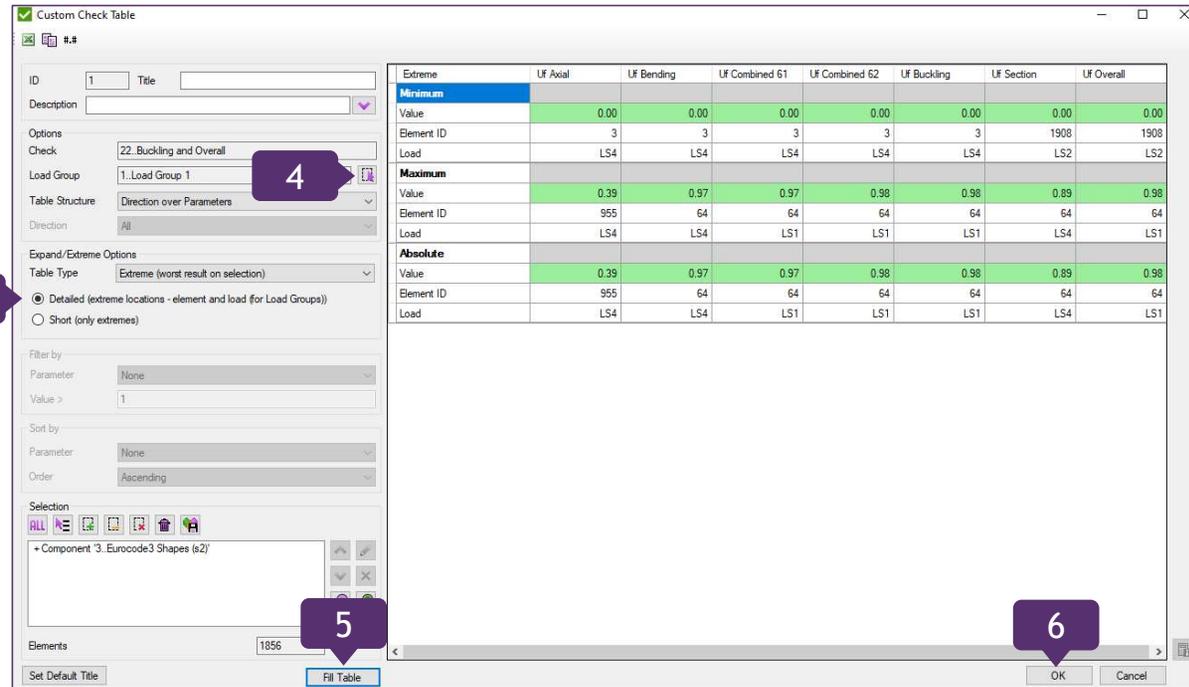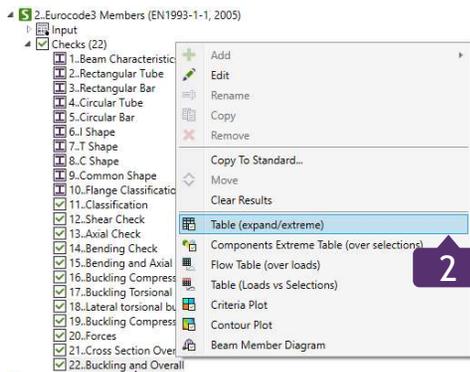
1 Select *Overall and Buckling*

2 Execute *Criteria Plot* in contex menu

3 Press ⬚ to preview **Plot**
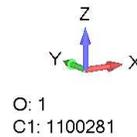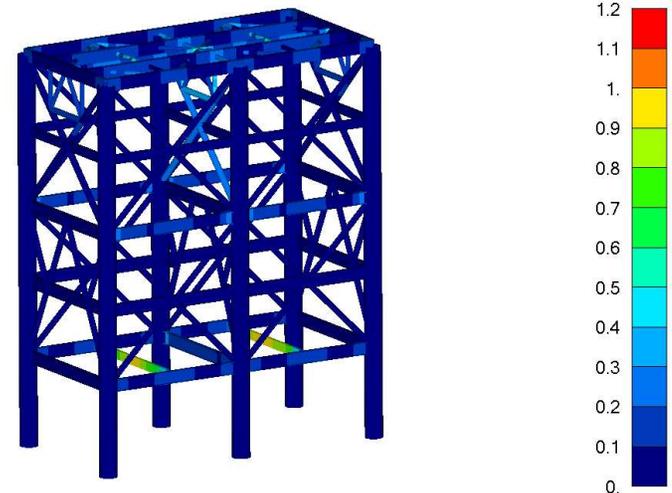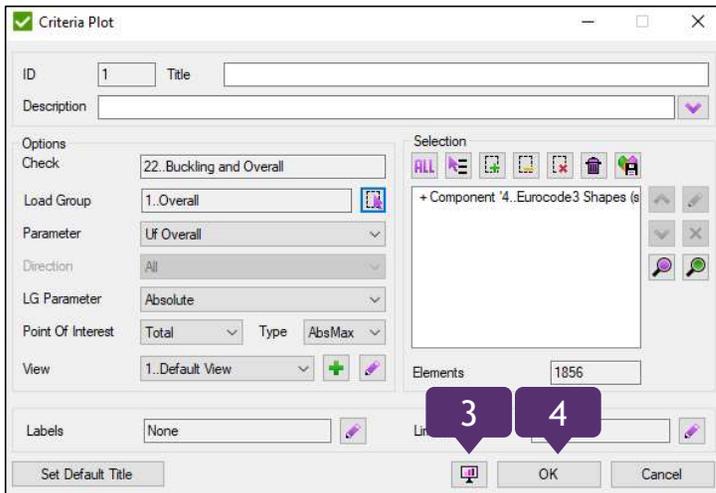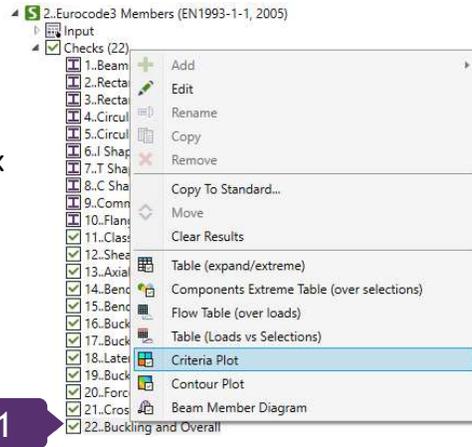
4 Press *Ok*

Report - Tables

1 Execute *Reports => Add => Designer Results*

2 Execute *Results => Check Tables*

3 Select Standard *AISC 360-10 Members* and press *Add Check Table*
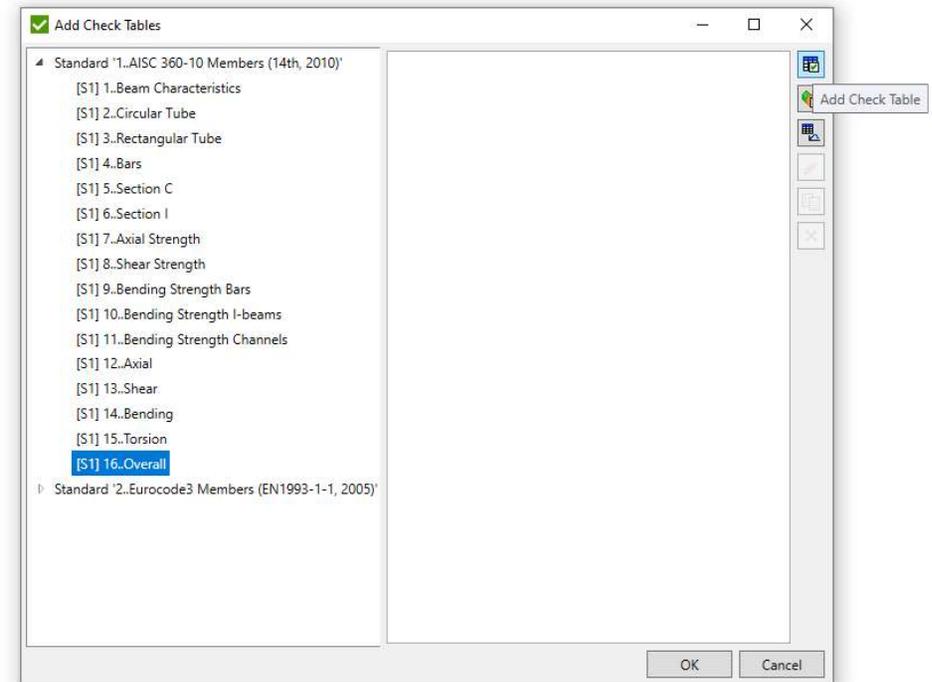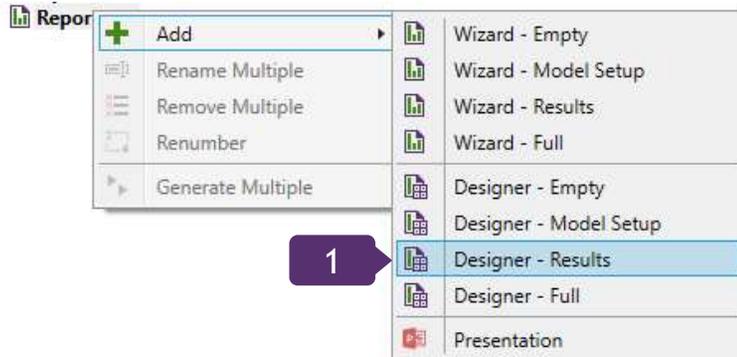
1 Select *Load Group 1* Load Group

2 Apply *All Entities*

3 Select *Detailed*

4 Press *Ok*

5 Repeat 1-4 step for Standard *Eurocode3 Members*
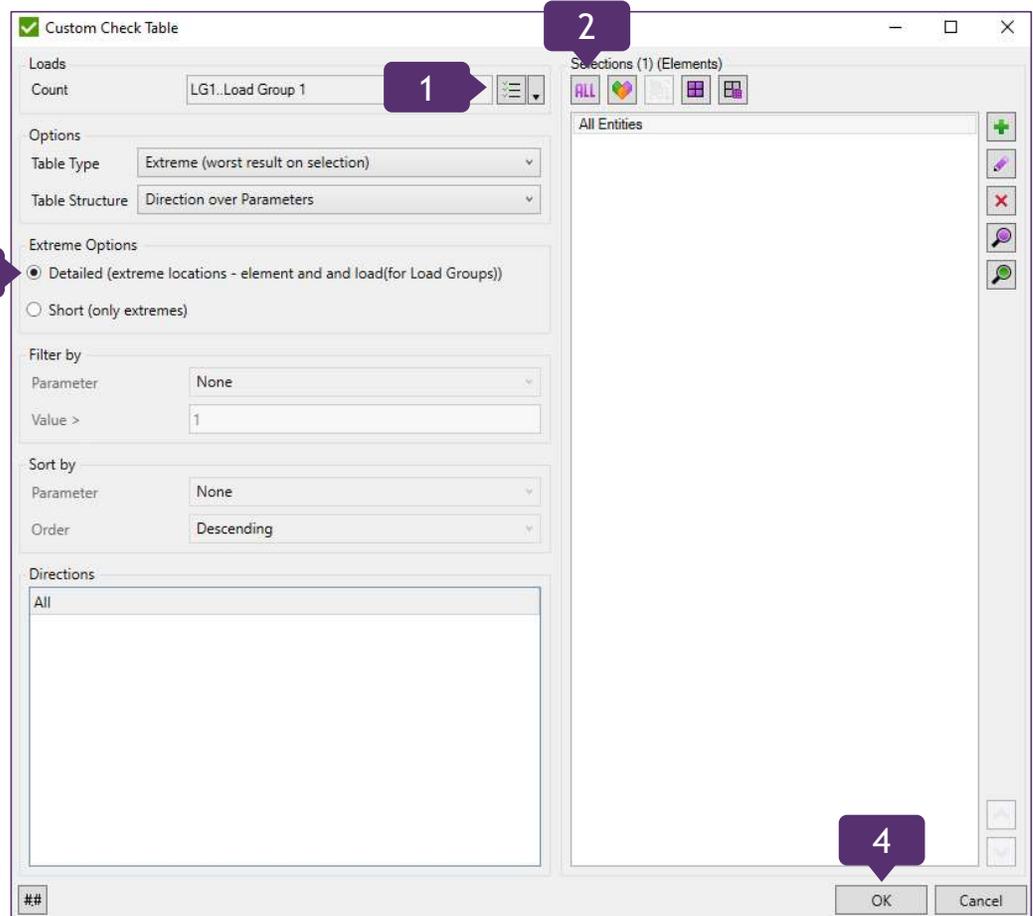
Report - Plots

1 Execute *Results => Check Plots*

2 Select Standard *AISC 360-10 Members* and press *Add Criteria Plot*

3 Select *Load Group 1* Load Group

4 Select *All Entities*

5 Press *OK*

6 Repeat 1-5 step for Standard *Eurocode3 Members*

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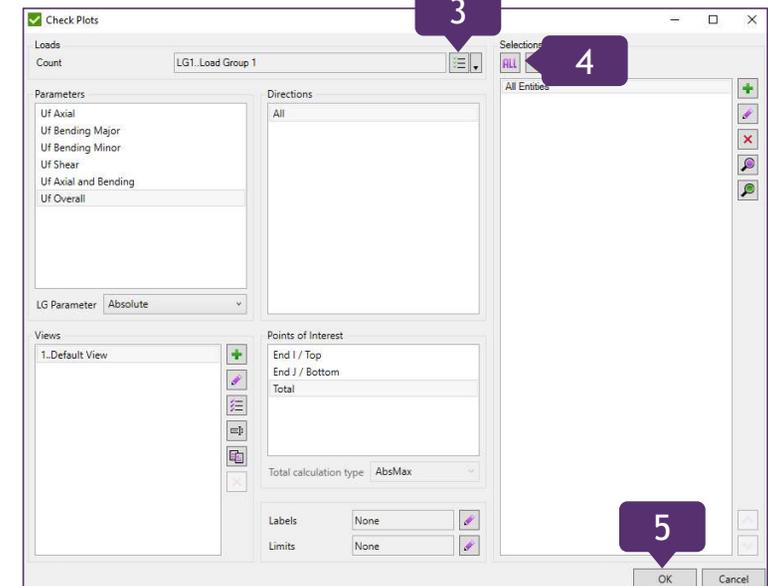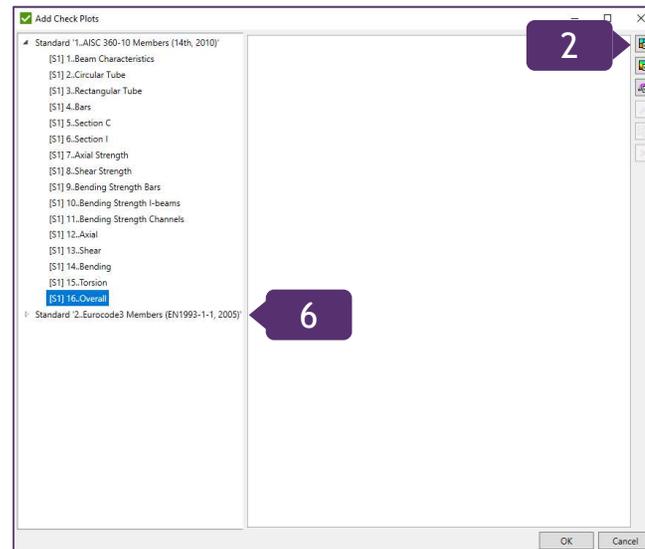
1 Select plot in *AISC 360-10 Members => Abs UF Overall*

2 Select *Break Page Before* and press *No*

3 Select plot in *AISC 360-10 Members => Abs UF Overall*

4 Select *Break Page Before* and press *No*

5 Repeat 1-4 step for Eurocode3 Members
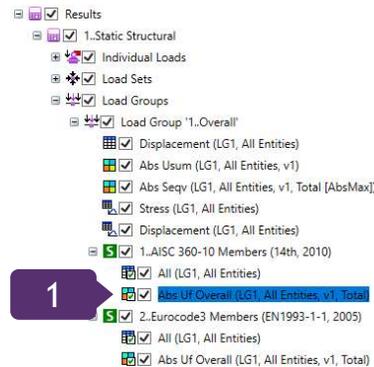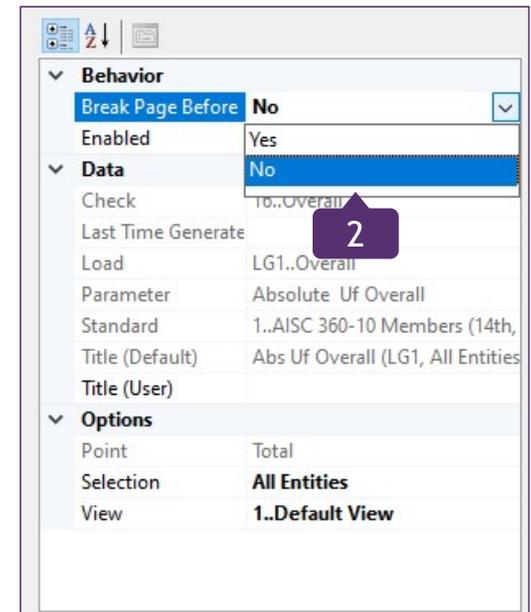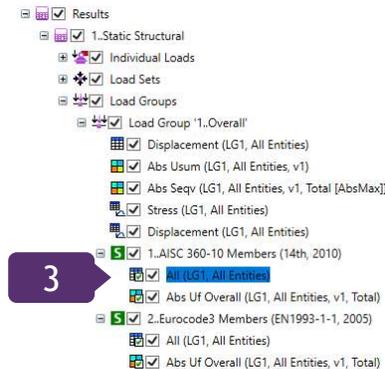
Generated Report

1 Select both Standards and press *Generate*

2 After generation is finished press to export generated report to Word 📄