



Tutorial  
**API 2A RP/ISO 19902/Norsok N004**

11 Dec 2020  
version 2020.0.2

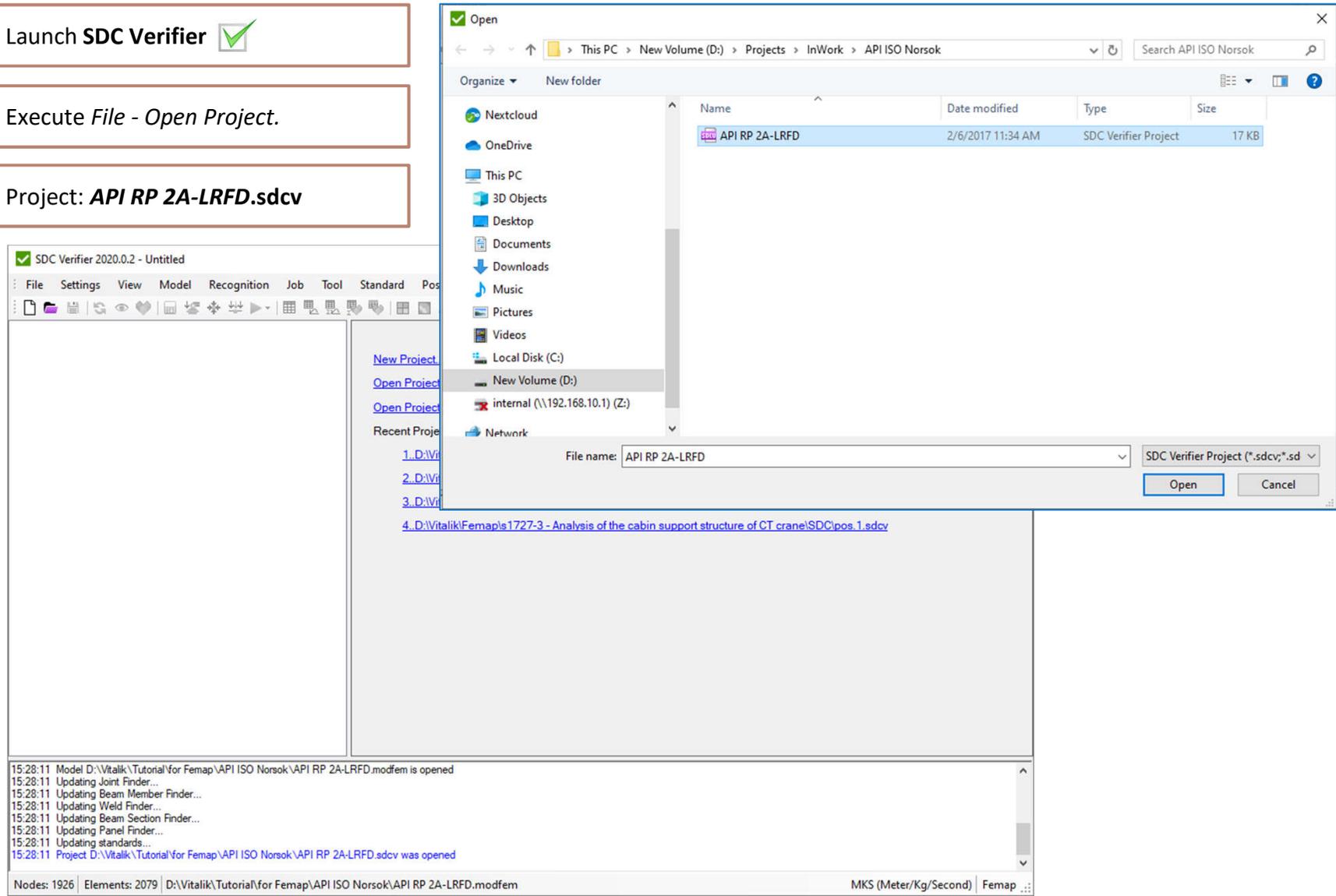
- ▶ In this tutorial, an API 2A RP Beam Design Checks are reviewed in details.
- ▶ A beam model of a steel frame has been used as a start FEM model.
- ▶ Beam member finder was used to recognize beam member length in 3 directions.
- ▶ The report was generated with the help of report designer.

# Open Project

1 Launch **SDC Verifier** 

2 Execute *File - Open Project*.

3 Project: **API RP 2A-LRFD.sdcv**

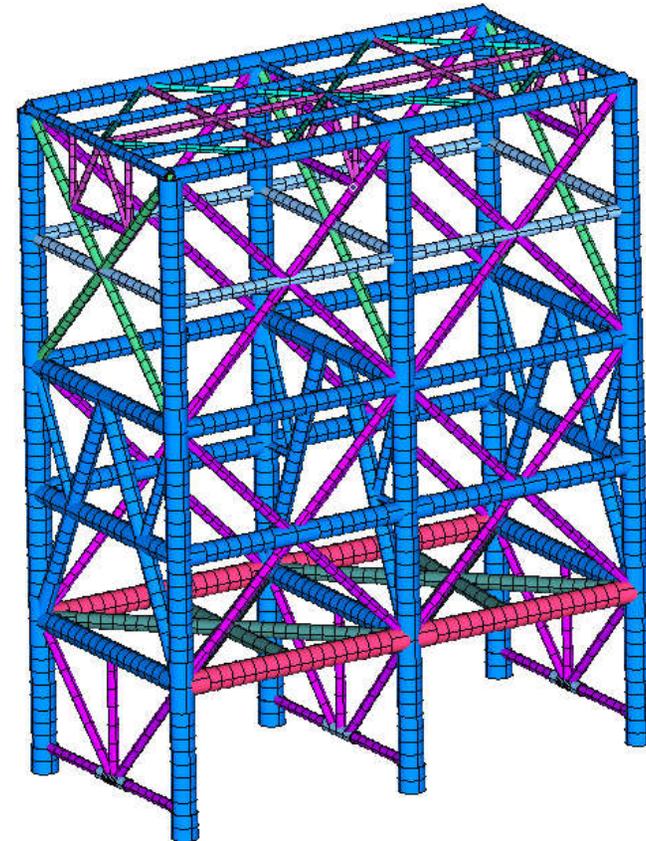
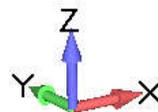
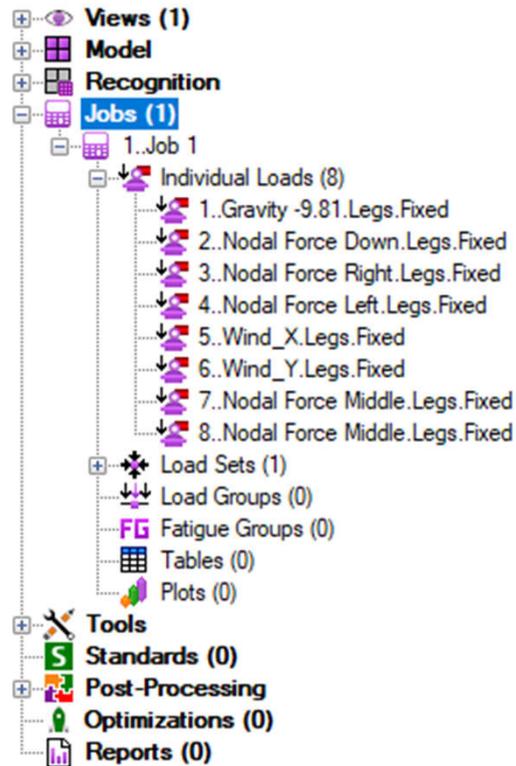


The screenshot shows the SDC Verifier 2020.0.2 interface. An 'Open' dialog box is open, displaying the file 'API RP 2A-LRFD' (17 KB) in the 'API ISO Norsok' folder. The file name 'API RP 2A-LRFD' is entered in the 'File name' field. The 'Open' button is highlighted. Below the dialog box, the console window shows the following log entries:

```
15:28:11 Model D:\Vitalik\Tutorial\for Femap\API ISO Norsok\API RP 2A-LRFD.modfem is opened
15:28:11 Updating Joint Finder...
15:28:11 Updating Beam Member Finder...
15:28:11 Updating Weld Finder...
15:28:11 Updating Beam Section Finder...
15:28:11 Updating Panel Finder...
15:28:11 Updating standards...
15:28:11 Project D:\Vitalik\Tutorial\for Femap\API ISO Norsok\API RP 2A-LRFD.sdcv was opened
```

The status bar at the bottom indicates: Nodes: 1926 | Elements: 2079 | D:\Vitalik\Tutorial\for Femap\API ISO Norsok\API RP 2A-LRFD.modfem | MKS (Meter/Kg/Second) | Femap

# Predefined project

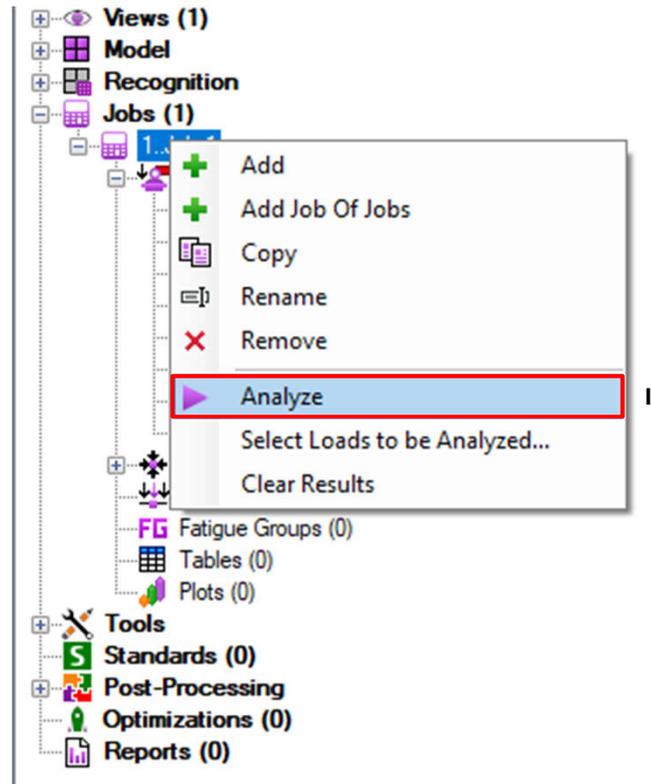


This tutorial uses predefined project with the following created data: individual loads, load sets and load group. The focus of this tutorial is to check the cylindrical members and create the basic report.

# Analyze Job

1

Execute  **Analyze** from *Job1* context menu



# Explanation of Joints

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;

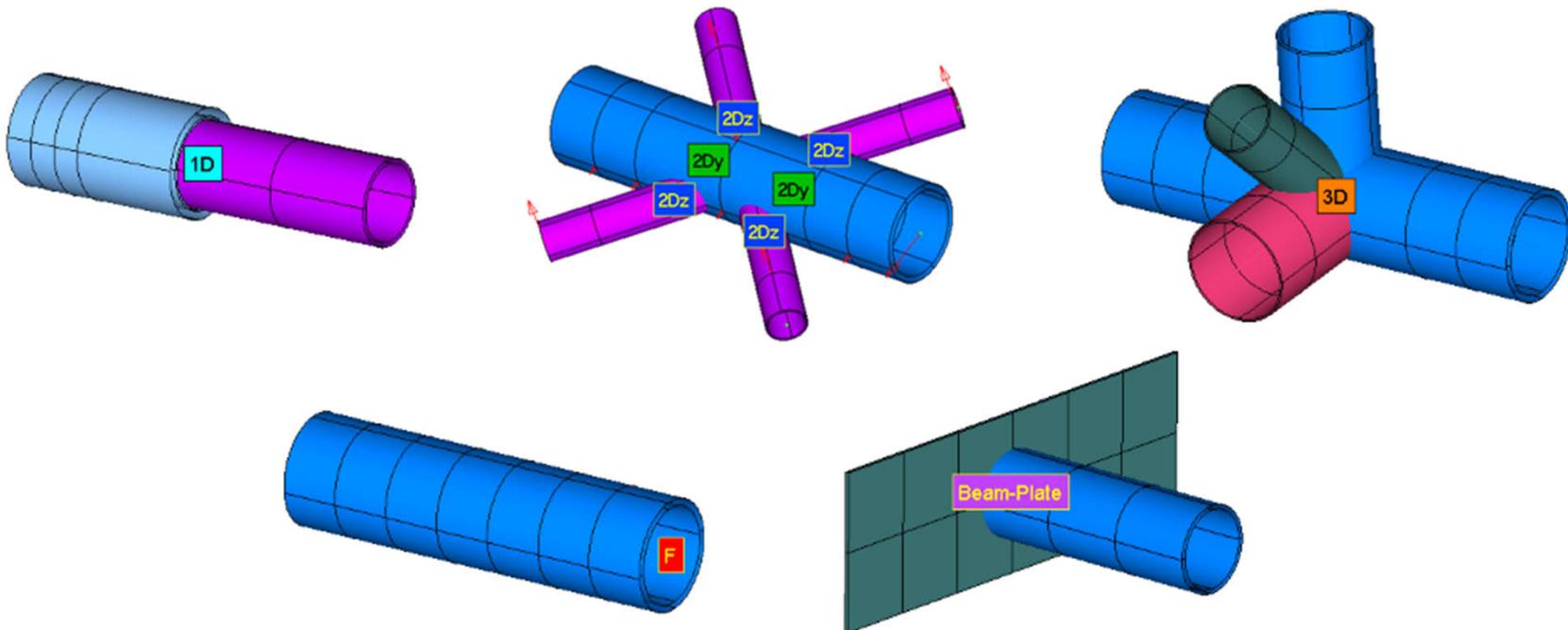
2D Joint – beam members connected in one plane;

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);

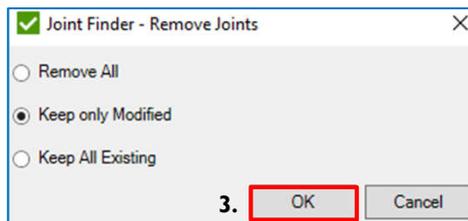
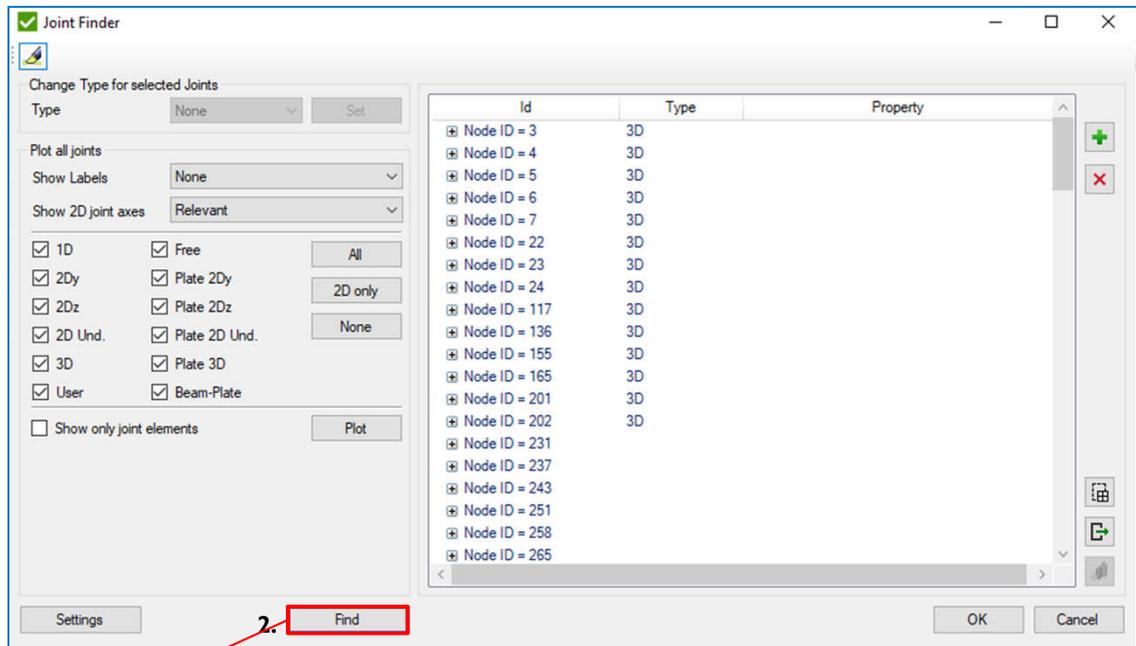
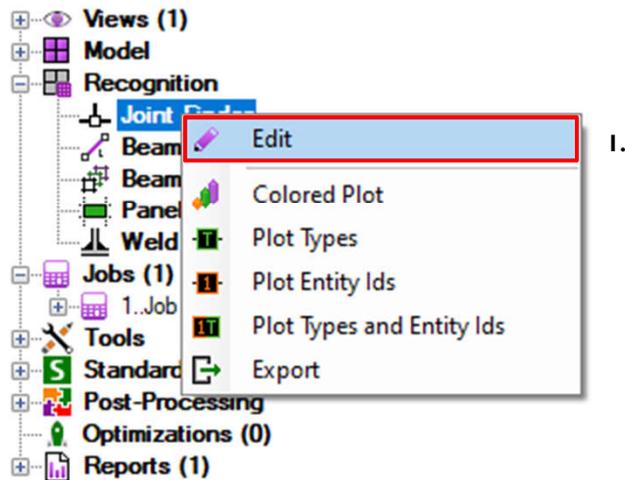
User Defined;



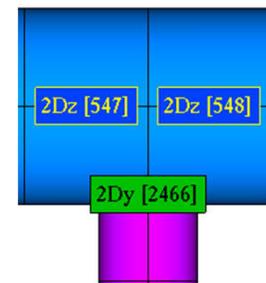
# Joint Recognition

- 1 Execute *Edit* from *Joints* context menu
- 2 Press *Find*.
- 3 Press *Ok*.

When performing the joint recognition there are 3 options for existing joints. Default option: Keep only modified– remove all joints except edited by user. Keep all existing options should be used when additional elements were added to the model.

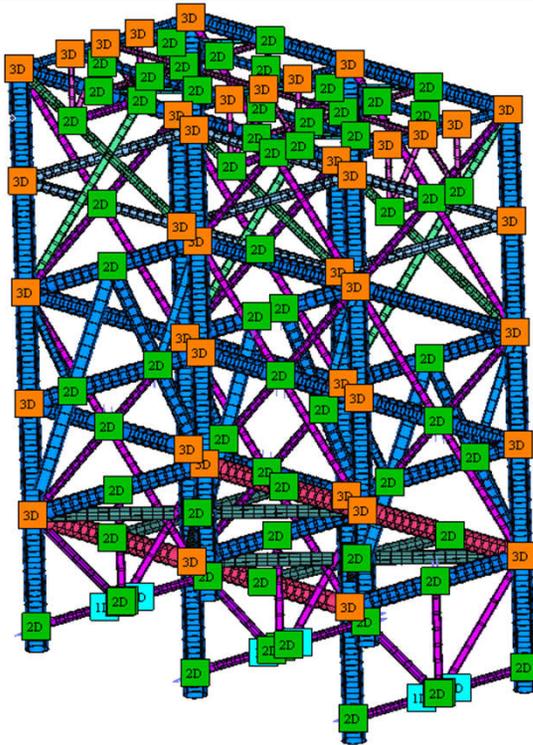


Node ID = 719			
Element ID = 547	2Dz		8..400x19
Element ID = 548	2Dz		8..400x19
Element ID = 2466	2Dy		14..200x10



# Joints Plot

- 1 Select All Joints (Ctrl+A).
- 2 Press
- 3 Press Plot Joint Type Labels
- 4 Press OK



**Joint Finder**

Change Type for selected Joints  
 Type: None [Set]

Plot all joints  
 Show Labels: None  
 Show 2D joint axes: Relevant

1D     Free    All  
 2Dy     Plate 2Dy    2D only  
 2Dz     Plate 2Dz    None  
 2D Und.     Plate 2D Und.  
 3D     Plate 3D  
 User     Beam-Plate

Show only joint elements [Plot]

Id	Type	Property
Node ID = 2323	2Dz	
Node ID = 2318	2Dz	
Node ID = 2315	2Dz	
Node ID = 2314	2Dz	
Node ID = 2236	3D	
Node ID = 2233	2Dz	
Node ID = 2232	2Dz	
Node ID = 2227	3D	
Node ID = 2226	3D	
Node ID = 2225	3D	
Node ID = 2222	3D	
Node ID = 2221	2Dz	
Node ID = 2220	3D	
Node ID = 2219		
Node ID = 2218		
Node ID = 2217	2Dz	
Node ID = 2216	2Dz	
Node ID = 2215	2Dz	
Node ID = 2208	2Dz	
Node ID = 2177		

Settings Find **4. OK** Cancel

Plot Joints of specific type:

Plot all joints  
 Show Labels: None  
 Show 2D joint axes: Relevant

1D     Free    All  
 2Dy     Plate 2Dy    2D only  
 2Dz     Plate 2Dz    None  
 2D Und.     Plate 2D Und.  
 3D     Plate 3D  
 User     Beam-Plate

Show only joint elements [Plot]

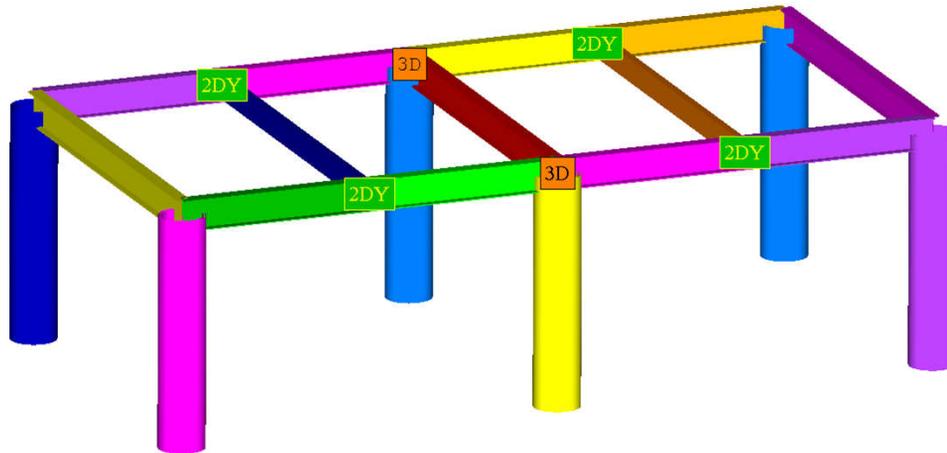
3. Plot Joint Type Labels  
 Plot Joint Type in colors

Modify Joint Type:

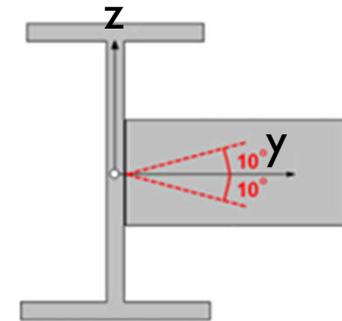
Change Type for selected Joints  
 Type: None [Set]

# Beam Member Lengths in 2 directions

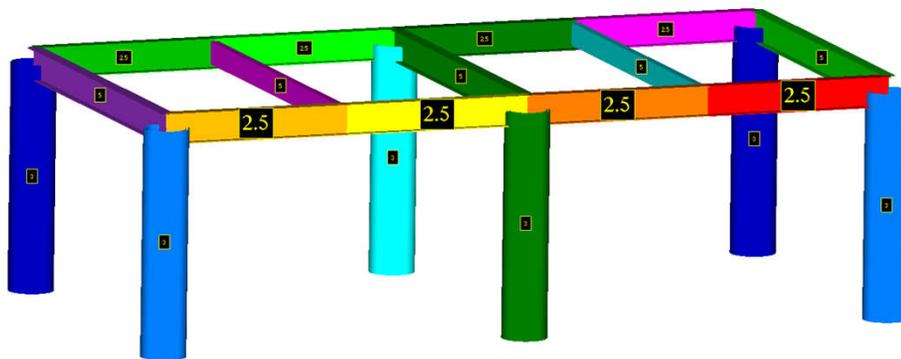
Beam Member Finder recognizes beam members and (buckling) lengths for different directions (Y, Z and Torsional).



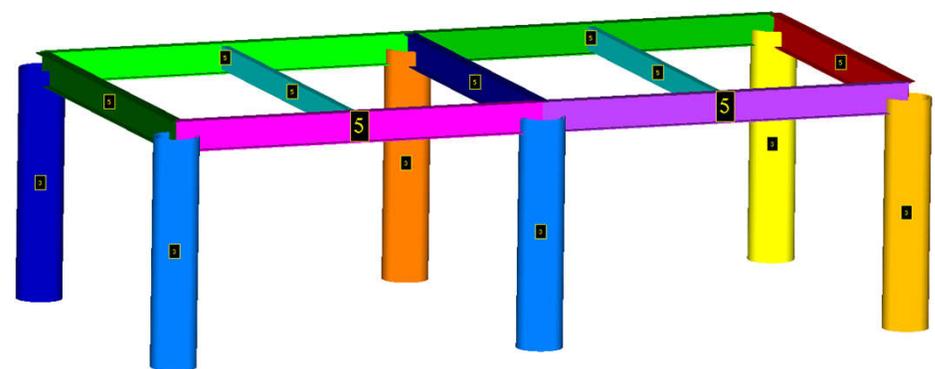
2DY  
Joint



Length Y – 4 Beam Members with  $L = 2.5$



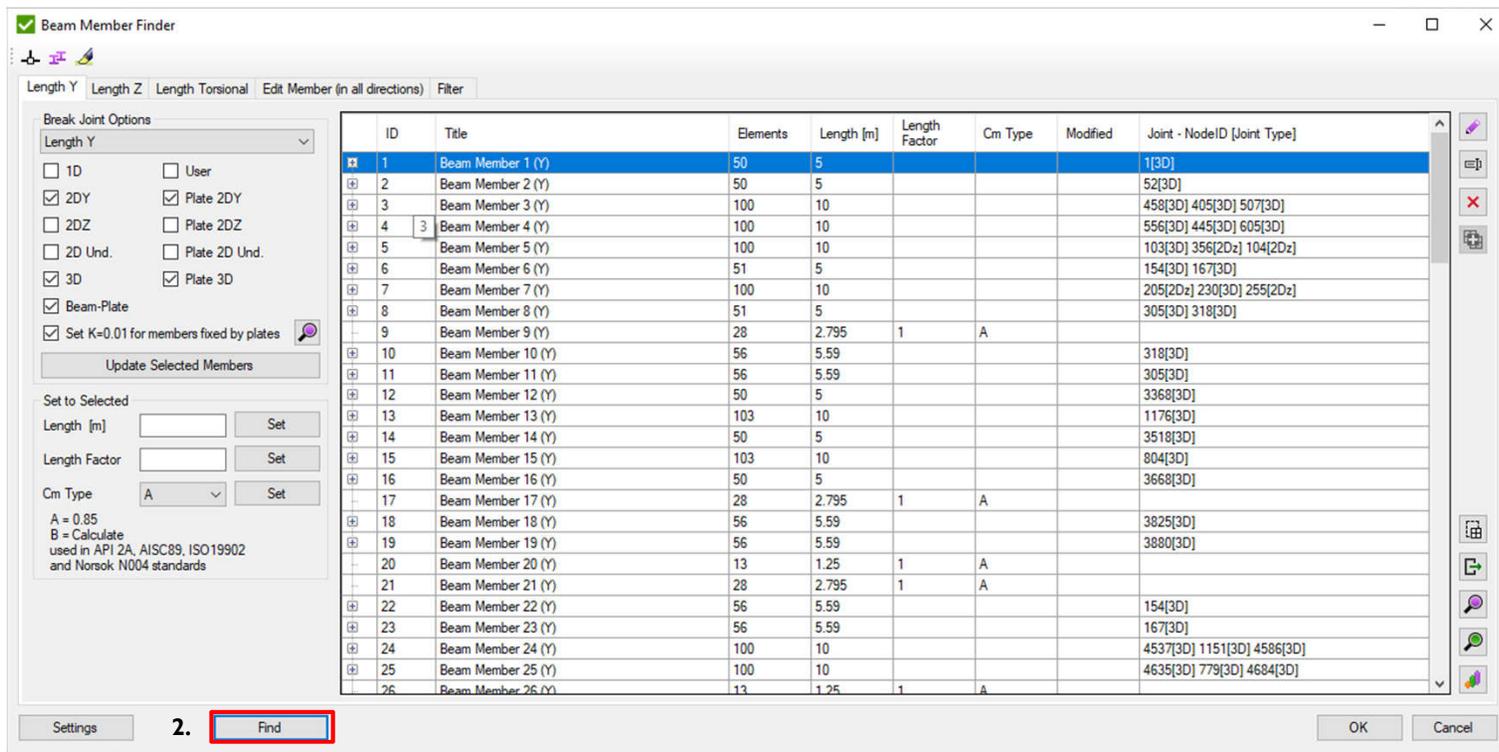
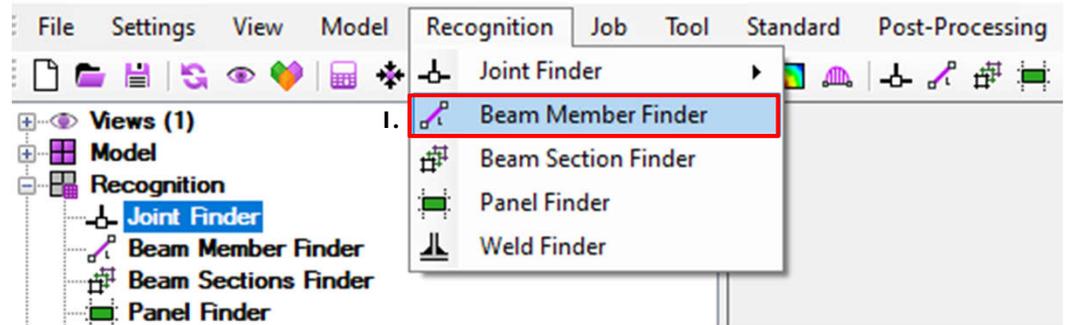
Length Z – 2 Beam Members with  $L = 5$



# Recognize Length

1 Execute *Recognition – Beam Member Finder*

2 Press *Find*.



# Beam Member Finder interface

Break Options define what joints are used to split beam members

Change Length/Length Factor for selected beam members

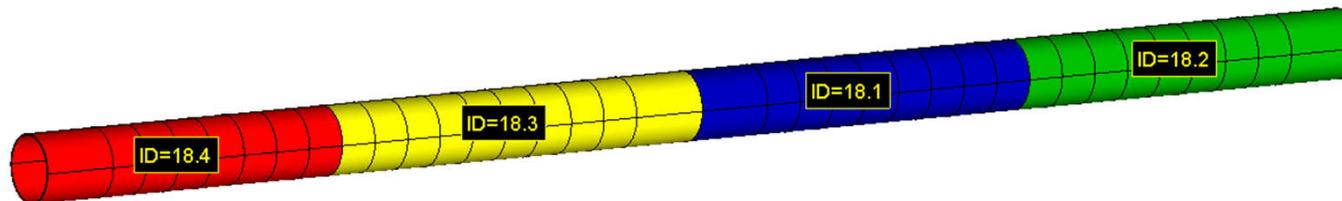
Cm Type is used in API 2A, AISC89, ISO 19902 and Norsok N004 standards

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

- Plot selected members
- 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

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

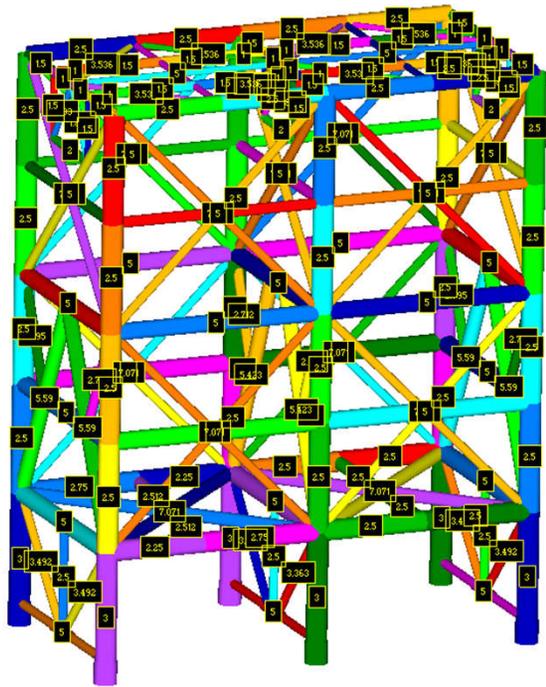
ID	Title	Elements	Length [m]	Length Factor	Cm Type	Modified	Joint - NodeID [Joint Type]
18	Beam Member 18 (T)	36	10				381[2Dy] 1106[3D] 1500[2Dy]
18.1	Beam Member 18.1 (T)	9	2.5	1	A		
18.2	Beam Member 18.2 (T)	9	2.5	1	A		
18.3	Beam Member 18.3 (T)	10	2.75	1	A		
18.4	Beam Member 18.4 (T)	8	2.25	1	A		



# Beam Member's Length Plot

- 1 Select All Beam Members (Ctrl+A)
- 2 Press
- 3 Press Plot Length labels
- 4 Press OK

ID	Title	Elements	Length [m]	Length Factor	Cm Type	Modified	Joint - NodeID [Joint Type]
1	Beam Member 1 (Y)	47	13				923[2Dz] 1107[3D] 155[3D] 1104[3D] 4[3D]
2	Beam Member 2 (Y)	47	13				922[2Dz] 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)	40	10				231[2Dy] 237[2Dy] 243[2Dy] 3[3D] 1361[2Dy] 1...
7	Beam Member 7 (Y)	40	10				251[2Dy] 258[2Dy] 265[2Dy] 5[3D] 1383[2Dy] 1...
8	Beam Member 8 (Y)	18	5				271[2Dz] 237[2Dz] 258[2Dz]
9	Beam Member 9 (Y)	40	10				271[2Dz] 23[3D] 1389[2Dz]
10	Beam Member 10 (Y)	26	7.07				243[2Dz] 23[3D] 1383[2Dz]
11	Beam Member 11 (Y)	13	3.535				231[2Dz]
12	Beam Member 12 (Y)	13	3.535				251[2Dz]
13	Beam Member 13 (Y)	26	7.07				265[2Dz] 23[3D] 1361[2Dz]
14	Beam Member 14 (Y)	45	14.144				1090[2Dz] 1105[3D] 2232[2Dz]
15	Beam Member 15 (Y)	23	7.072				1090[2Dz]
16	Beam Member 16 (Y)	36	10				1105[3D]
17	Beam Member 17 (Y)	32	10				1114[2Dz] 165[3D] 2232[2Dz]
18	Beam Member 18 (Y)	36	10				381[2Dy] 1106[3D] 1500[2Dy]
19	Beam Member 19 (Y)	22	7.072				1114[2Dz]
20	Beam Member 20 (Y)	45	14.144				1114[2Dz] 1105[3D] 2208[2Dz]
21	Beam Member 21 (Y)	5	1.5	1	A		
22	Beam Member 22 (Y)	5	1.5	1	A		
23	Beam Member 23 (Y)	5	1.5	1	A		
24	Beam Member 24 (Y)	5	1.5	1	A		
25	Beam Member 25 (Y)	6	1.803	1	A		



Also it is possible to display beam members IDs by pressing

- Plot Members ID labels



- Plot selected members
- 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

# Cm – reduction factors

C<sub>my</sub> and C<sub>mz</sub> reduction factors are used in combined axial and bending check:

$$\frac{f_c}{\phi_c F_{cn}} + \frac{1}{\phi_b F_{bn}} \left\{ \left[ \frac{C_{my} f_{by}}{\phi_c F_{ey}} \right]^2 + \left[ \frac{C_{mz} f_{bz}}{\phi_c F_{ez}} \right]^2 \right\}^{0.5} \leq 1.0$$

..... (D.3.2-1)

By default **Cm Type** equal to A = 0.85 for all members. It is possible to modify Cm Type for selected members:

Cm Type A Set

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

A

B

In SDC Verifier B = minimum from (b) and (c)

Notes to Table D.3-1:

(1) Use whichever is more applicable to a specific situation. Values of the reduction factor C<sub>m</sub> referred to in the above table are as follows:

(a) 0.85

(b)  $0.6 - 0.4 \frac{M_1}{M_2}$ , no more than 0.85, or less than 0.40, where M<sub>1</sub>/M<sub>2</sub> is the ratio of smaller to larger moments at the ends of that portion of the member unbraced in the plane of bending under consideration. M<sub>1</sub>/M<sub>2</sub> is positive when the number is bent in reverse curvature, negative when bent in single curvature.

(c)  $1.0 - 0.4 \frac{f_c}{\phi_c F_e}$ , or 0.85, whichever is less

**TABLE D.3-1**  
**EFFECTIVE LENGTH AND BENDING**  
**REDUCTION FACTORS FOR**  
**MEMBER STRENGTH CHECKING**

Situation	Effective Length Factor K	Reduction Factor C <sub>m</sub> <sup>(1)</sup>
<b>Superstructure Legs</b>		
Braced	1.0	(a)
Portal (unbraced)	K <sup>(2)</sup>	(a)
<b>Jacket Legs &amp; Piling</b>		
Grouted Composite Section	1.0	(c)
Ungouted Jacket Legs	1.0	(c)
Ungouted Piling Between Shim Points	1.0	(b)
<b>Jacket Braces</b>		
Face-to-face Length of Main Diagonals	0.8	(b) or (c)
Face of Leg to Centerline of Joint Length of K-Braces <sup>(3)</sup>	0.8	(c)
Longer Segment Length of X-Braces <sup>(3)</sup>	0.9	(c)
Secondary Horizontals	0.7	(c)
Deck Truss Chord members	1.0	(a),(b) or (c)
<b>Deck Truss Web Members</b>		
In-Plane Action	0.8	(b)
Out-of-Plane Action	1.0	(a) or (b)

API RP\*2A-LRFD 93 ■ 0732290 0507612 001 ■

## Recommended Practice for Planning, Designing and Constructing Fixed Offshore Platforms — Load and Resistance Factor Design

API RECOMMENDED PRACTICE 2A-LRFD (RP 2A-LRFD)  
FIRST EDITION, JULY 1, 1993

American Petroleum Institute  
1220 L Street, Northwest  
Washington, DC 20005



This “Recommended Practice for Planning, Designing, and Constructing Fixed Offshore Platforms — Load and Resistance Factor Design” (LRFD) contains the engineering design principles and good practices that have been the basis of the API RP2A working strength design (WSD) recommended practice, now in its 20th Edition. The LRFD provisions have been developed from the WSD provisions using reliability based calibration.

API RP\*2A-LRFD 93 ■ 0732290 0507613 T48 ■

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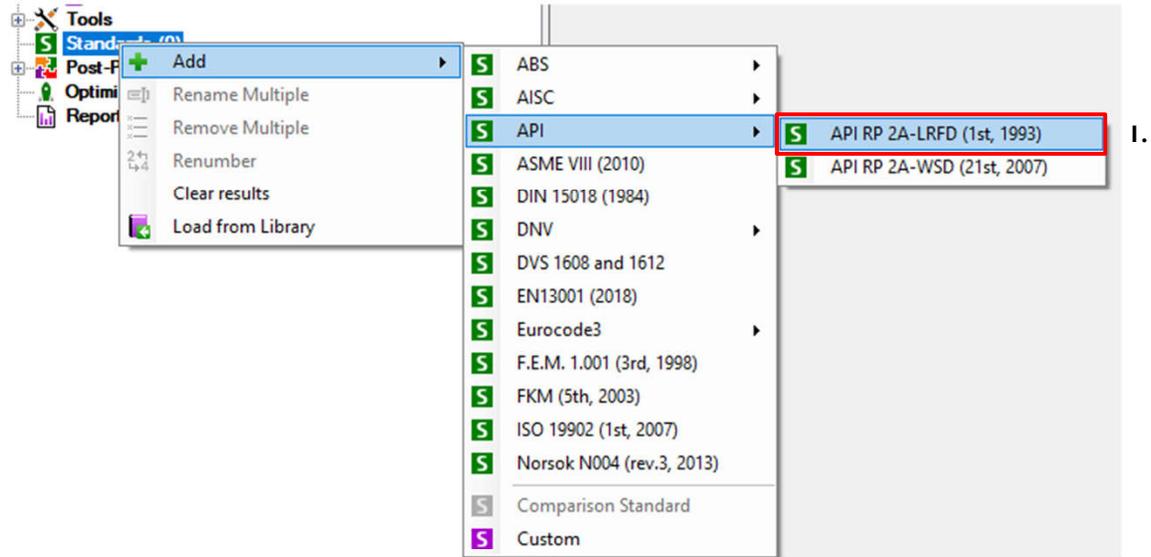
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# Add API RP 2A-LRFD standard

1

Execute *Standards* => *Add* => *API RP 2A-LRFD (1<sup>st</sup>, Jul 1993)*.



API 2A RP standard covers the design checks only cylindrical types of shapes.

## SECTION D CYLINDRICAL MEMBER DESIGN

$C_x$  = critical elastic buckling coefficient

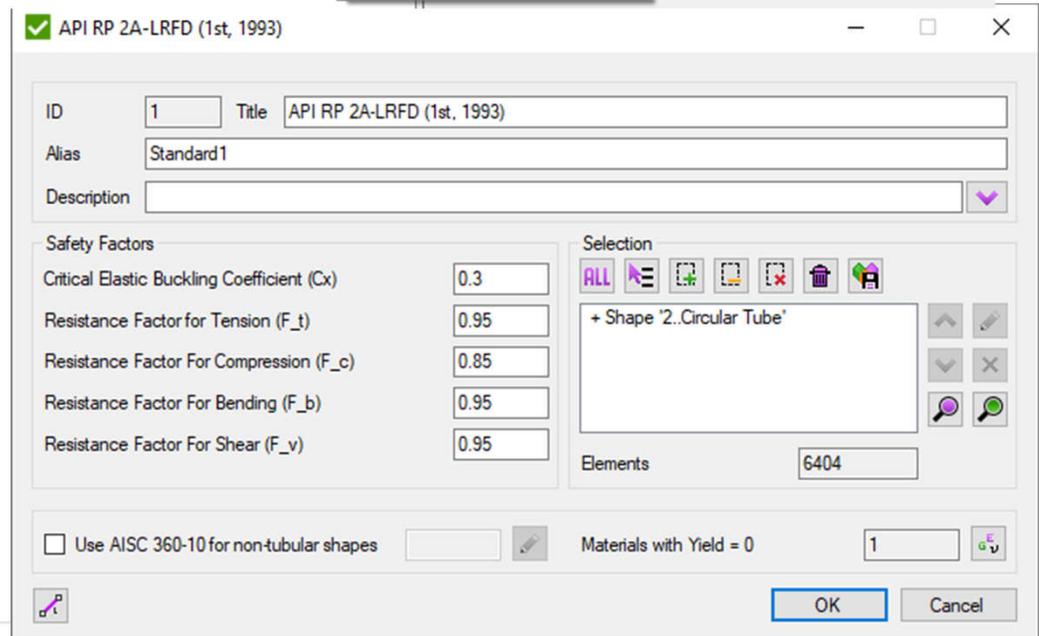
The theoretical value of  $C_x$  is 0.6. However, a reduced value of  $C_x = 0.3$  is recommended for use in Equation D.2.2-3 to account for the effect of initial geometric imperfections within API Spec 2B tolerance limits, Reference D2.

$\phi_t$  = resistance factor for axial tensile strength, 0.95

$\phi_c$  = resistance factor for axial compressive strength, 0.85

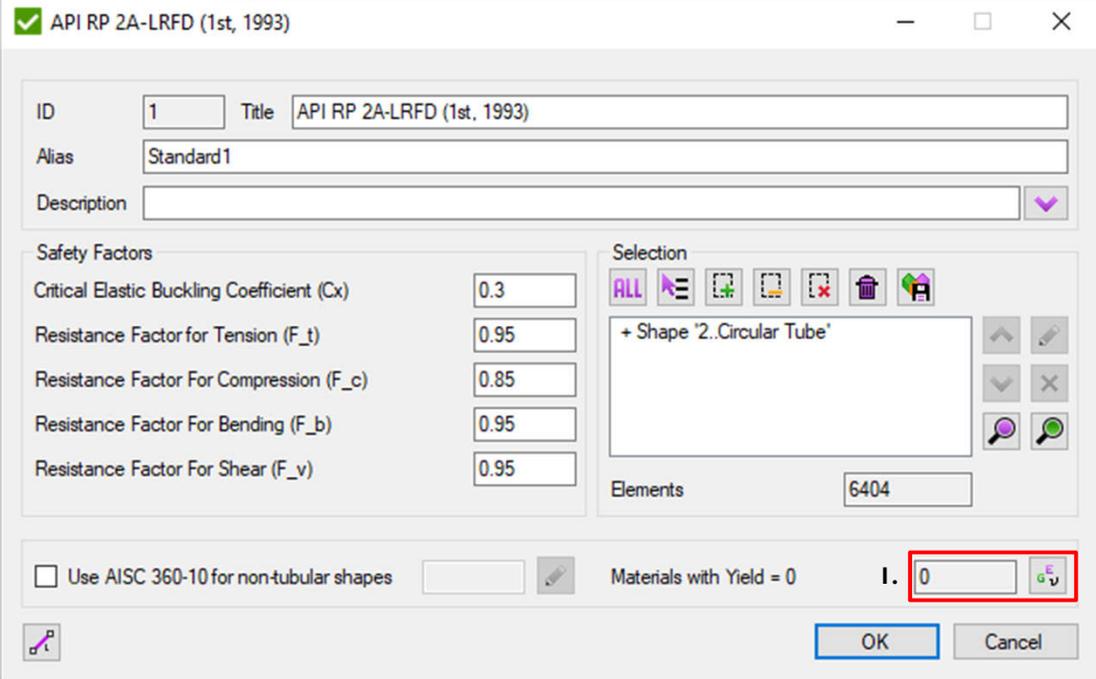
$\phi_b$  = resistance factor for bending strength, 0.95.

$\phi_v$  = resistance factor for beam shear strength, 0.95



# Define Material Characteristics

- 1 Press  to set the material yield stress and tensile strength
- 2 Select All Materials (Ctrl+A)
- 3 Tensile Strength: **360e+6 [Pa]**
- 4 Yield Stress: **240e+6 [Pa]**
- 5 Press *Set*
- 6 Press *OK*



API RP 2A-LRFD (1st, 1993)

ID: 1 Title: API RP 2A-LRFD (1st, 1993)

Alias: Standard1

Description:

Safety Factors

Critical Elastic Buckling Coefficient (Cx): 0.3

Resistance Factor for Tension (F<sub>t</sub>): 0.95

Resistance Factor for Compression (F<sub>c</sub>): 0.85

Resistance Factor for Bending (F<sub>b</sub>): 0.95

Resistance Factor for Shear (F<sub>v</sub>): 0.95

Selection

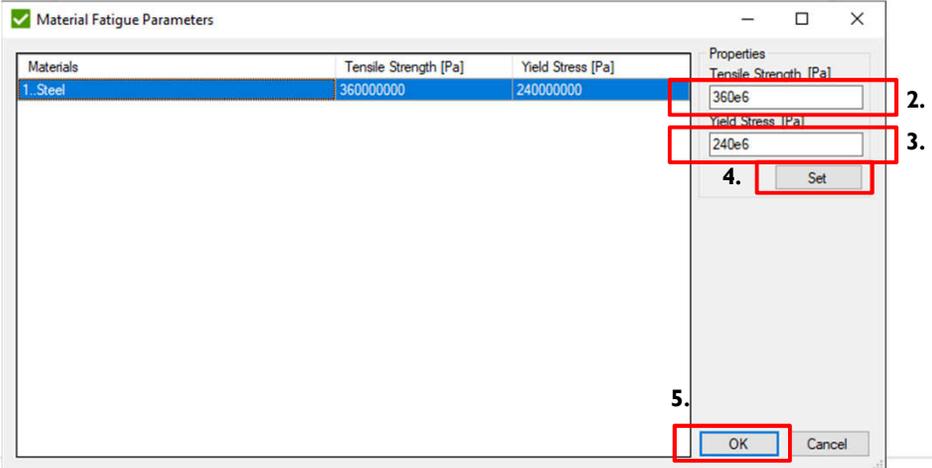
+ Shape '2..Circular Tube'

Elements: 6404

Use AISC 360-10 for non-tubular shapes

Materials with Yield = 0  0 

OK Cancel



Material Fatigue Parameters

Materials	Tensile Strength [Pa]	Yield Stress [Pa]
1_Steel	360000000	240000000

Properties

Tensile Strength [Pa]: 360e6

Yield Stress [Pa]: 240e6

Set

OK Cancel

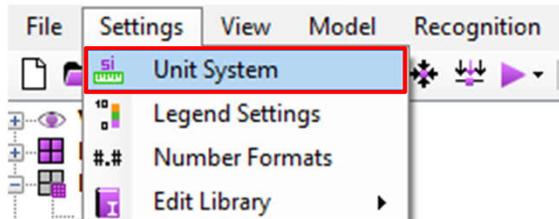
# Unit System

API RP 2A Standard is applicable to stiffened and unstiffened cylinders having  $t \geq 6\text{mm}$ ,  $D / t < 120$  and Yield Stress  $< 414\text{ MPa}$ . To validate this condition unit system used in the model should be specified in SDC Verifier.

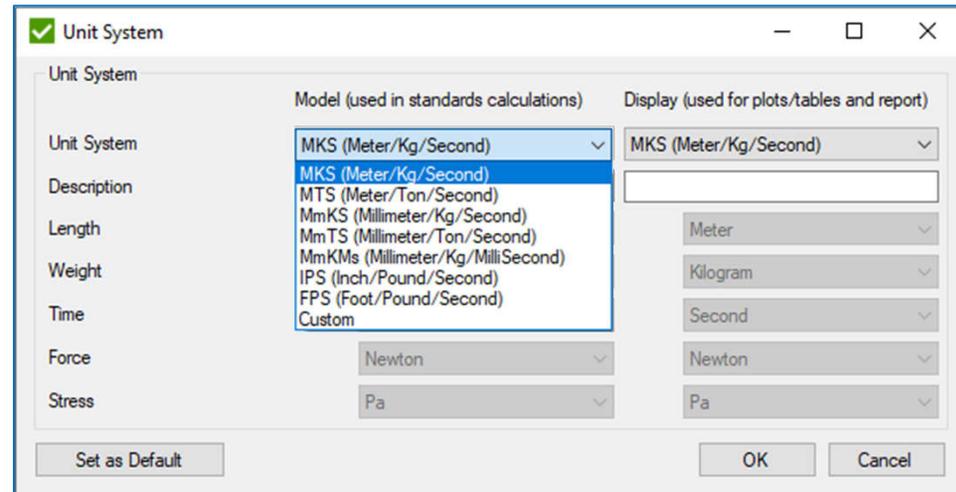
Parameter = RequirementsValid (Requirements Valid)

All: `if((Units.GetInMillimeters(Thickness) >= 6) and (Units.GetInMPa(Yield) < 414) and (D / Thickness < 300), yes, no)`

By default MKS (Meter/Kg/Second) unit system is used. To change unit system press



There are 7 predefined Unit Systems: MKS; MTS; MmKS; MmTS; MmKMs; IPS and FPS. Custom Unit System can be used in specific cases as well.



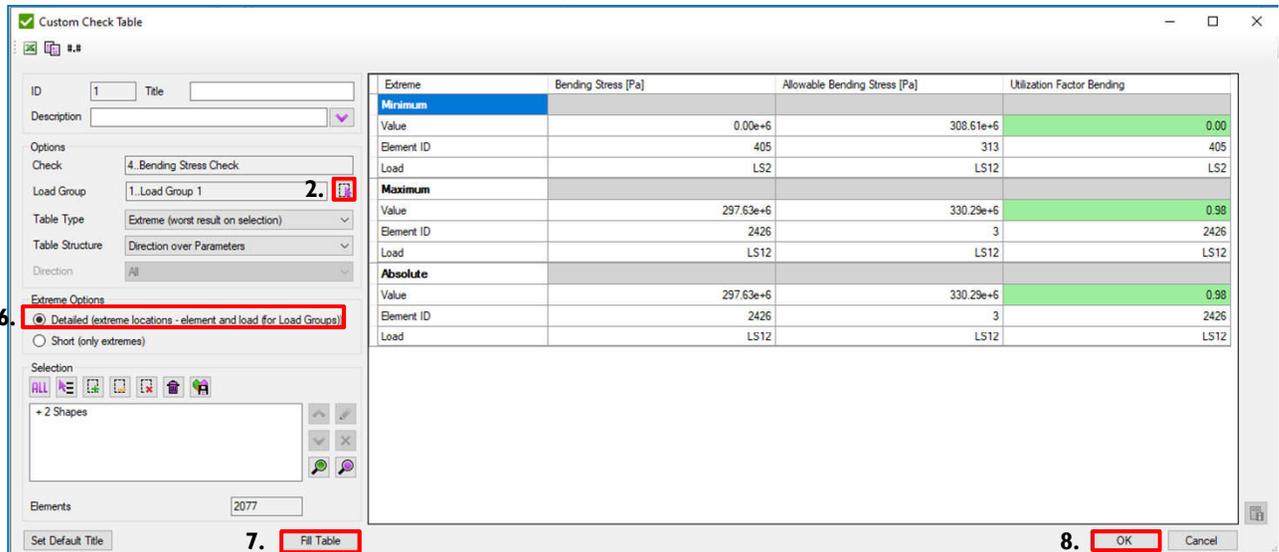
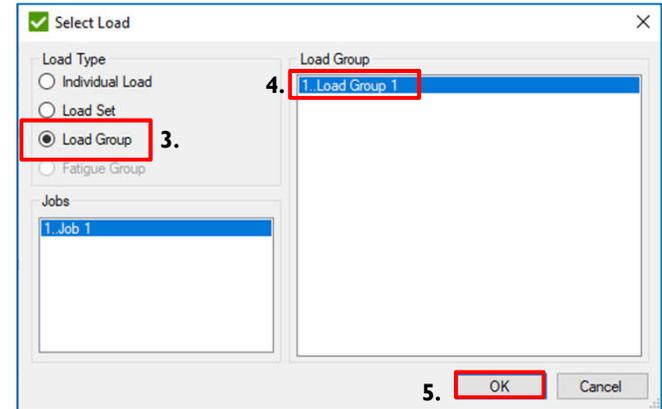
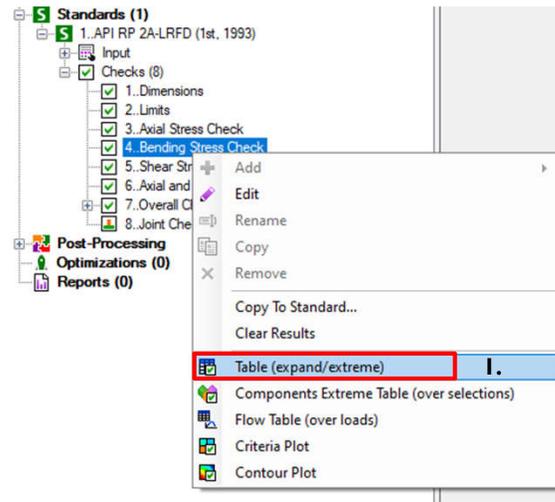
In case the standard cannot perform verification of the model the results will display the value = **12345678**.

### All (All Entities)

Standard	1..API 2A RP	Check Selection	7..Overall Check		
Individual Load	1..Gravity -9.81.Legs.Fixed		All Entities		
Extreme	Absolute Axial Uf	Absolute Bending Uf	Absolute Shear Uf	Absolute Axial and Bending Uf	Overall Utilization Factor
Minimum	12345678.00	12345678.00	12345678.00	12345678.00	12345678.00
Maximum	12345678.00	12345678.00	12345678.00	12345678.00	12345678.00
Absolute	12345678.00	12345678.00	12345678.00	12345678.00	12345678.00

# Extreme table for bending check

- 1 Execute *Table* from the **Bending Stress Check** context menu
- 2 Press to select load
- 3 Load Type: **Load Group**
- 4 Load: **1..Load Group 1**
- 5 Press *OK*
- 6 Extreme Options: **Detailed**
- 7 Press *Fill Table*
- 8 Press *OK*



Overall Check contains results from all checks. With the help of one table/plot it is possible to verify if the model passes the checks ( $< 1$ ). Overall Utilization Factor = worst Uf among all checks.

# Criteria Plot for Bending Stress Check

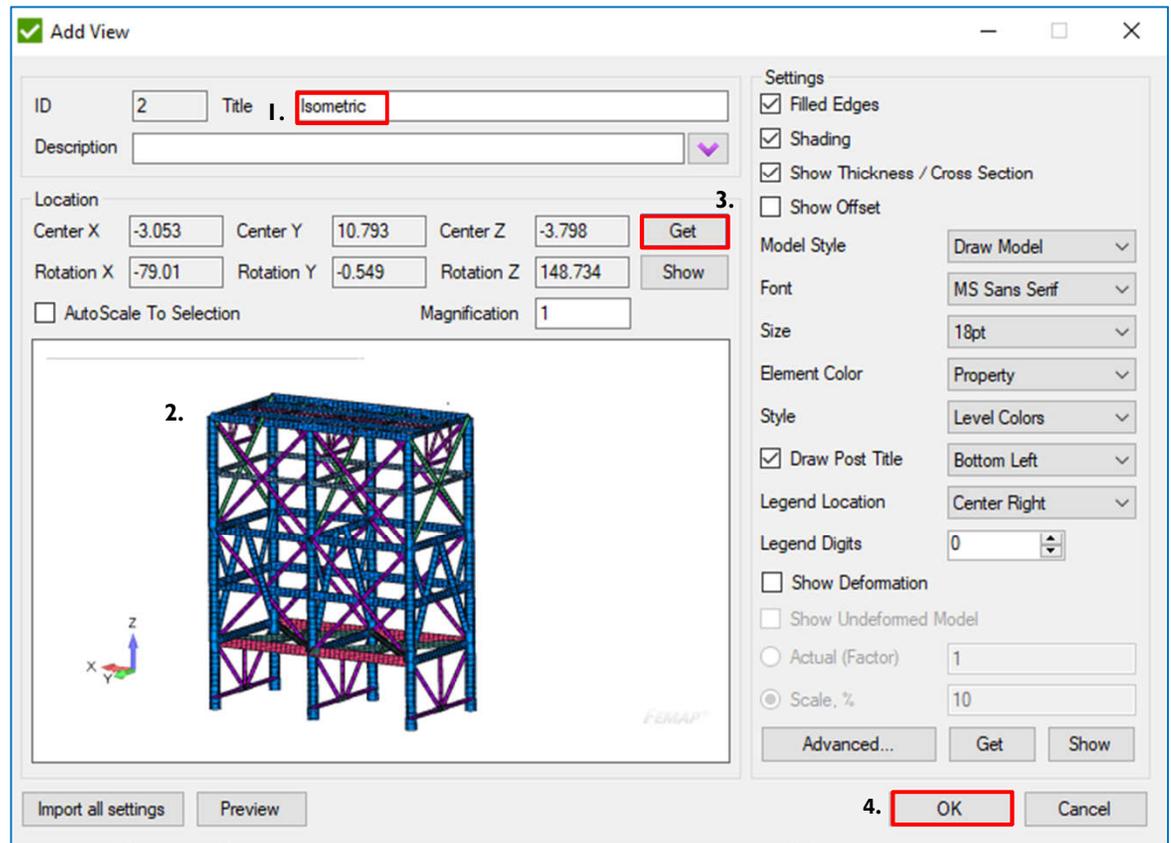
- 1 Execute *Criteria Plot* from **Bending Stress Check** context menu
- 2 Press to select load
- 3 Load Type: **Load Group**
- 4 Load: **1..Load Group 1**
- 5 Press *OK*
- 6 Press to add view

The screenshot illustrates the software interface for creating a Criteria Plot. On the left, a tree view shows the project structure with '4. Bending Stress Check' selected. A context menu is open over this item, with 'Criteria Plot' highlighted. A 'Select Load' dialog box is open, showing 'Load Group' selected as the Load Type and '1..Load Group 1' selected as the Load. The 'Criteria Plot' dialog box is also open, showing the following settings:

- ID: 1
- Title: (empty)
- Description: (empty)
- Options Check: 4..Bending Stress Check
- Load Group: 1..Load Group 1
- Parameter: Utilization Factor Bending
- Direction: All
- LG Parameter: Absolute
- Point Of Interest: Total, Type: AbsMax
- View: 1..Default View
- Labels: None
- Limits: None
- Elements: 2077

# Plot. Create View

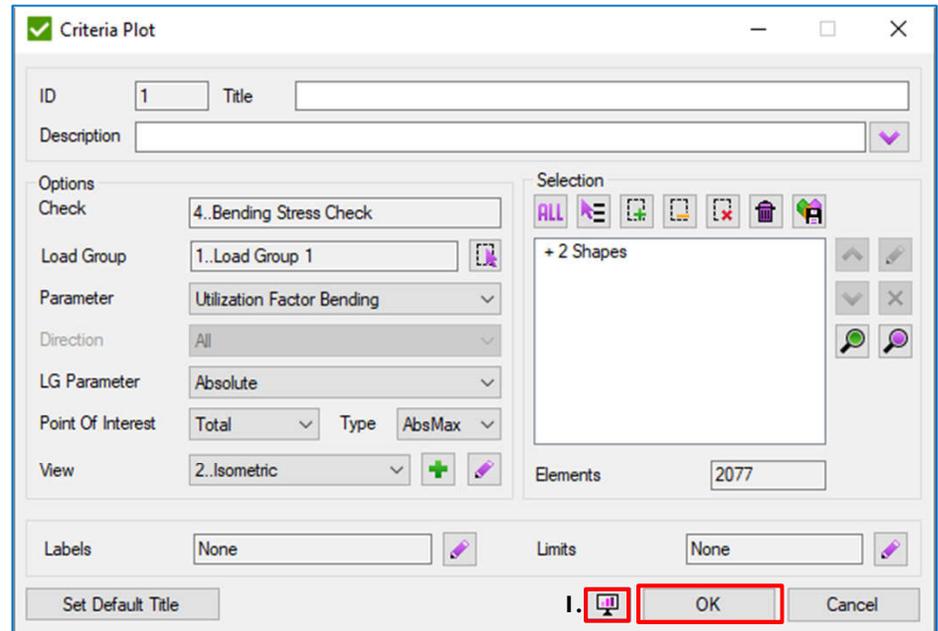
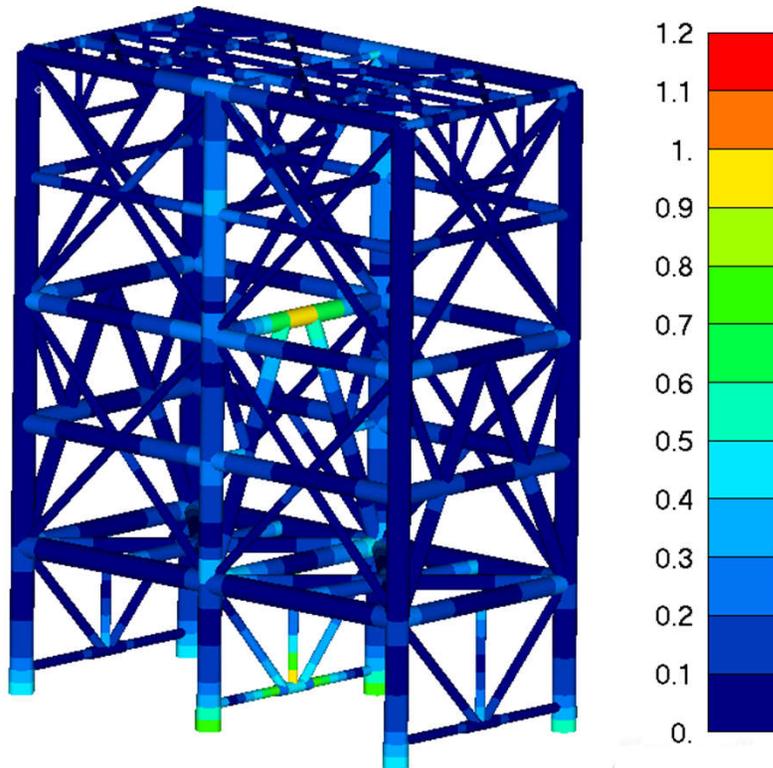
- 1 Title: **Isometric**
- 2 Orient model in Femap as shown on the picture
- 3 Press *Get*
- 4 Press *OK*



# Display Plot

1 Press  to display plot

2 Press *OK*

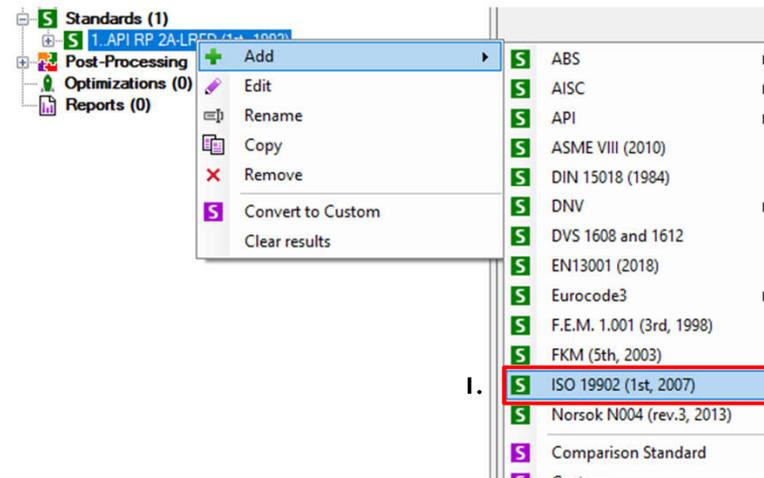


2.

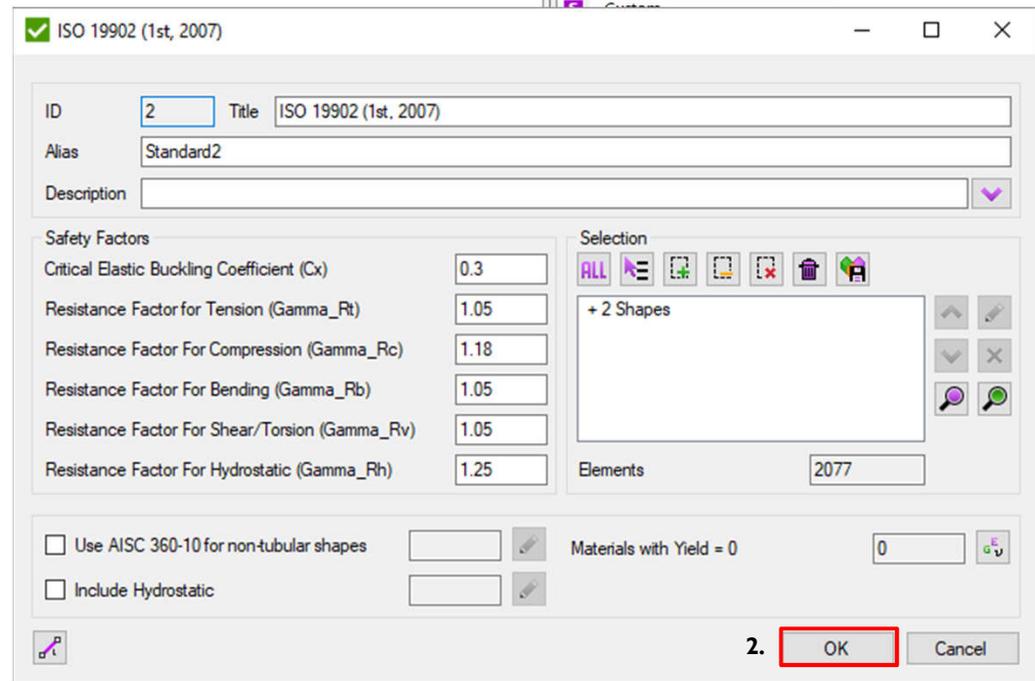
# Add ISO 19902 standard

1 Execute *Standards* => *Add* => *ISO 19902* (1<sup>st</sup>, Dec 2007).

2 Press *OK*



ISO 19902 procedure is similar to API 2A RP. In overall check it is possible to verify if the structure passes all checks : Overall Utilization Factor = worst  $U_f$  among all checks  $< 1$ .



# ISO 19902 standard

$C_x$  is the elastic critical buckling coefficient, see below;

The theoretical value of  $C_x$  for an ideal tubular is 0,6. However, a reduced value of  $C_x = 0,3$  should be used in Equation (13.2-10) to account for the effect of initial geometric imperfections within the tolerance limits given in Clause 21. A reduced value of  $C_x = 0,3$  is implicit in the value of  $f_{xe}$  used in Equations (13.2-8) and (13.2-9).

$\gamma_{R,t}$  is the partial resistance factor for axial tensile strength,  $\gamma_{R,t} = 1,05$ .

$\gamma_{R,c}$  is the partial resistance factor for axial compressive strength,  $\gamma_{R,c} = 1,18$ .

$\gamma_{R,b}$  is the partial resistance factor for bending strength,  $\gamma_{R,b} = 1,05$ ;

$\gamma_{R,v}$  is the partial resistance factor for shear strength,  $\gamma_{R,v} = 1,05$ ;

$\gamma_{R,h}$  is the partial resistance factor for hoop buckling strength,  $\gamma_{R,h} = 1,25$ .

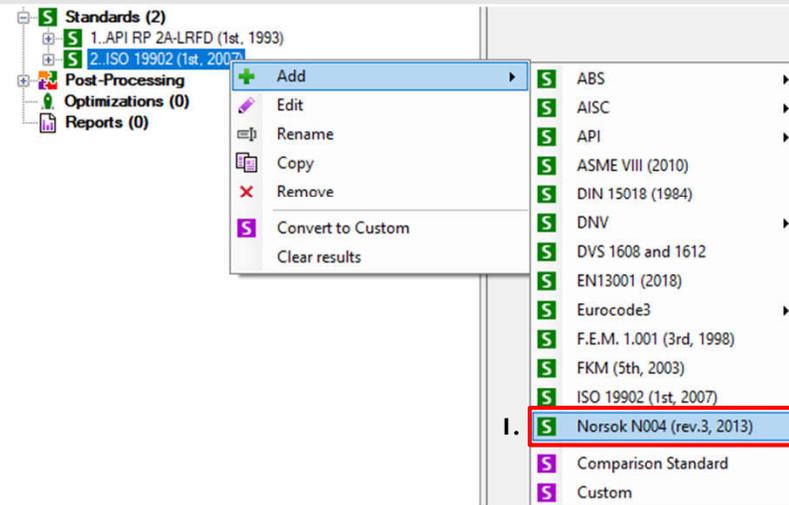
# Add Norsok N004 standard

1

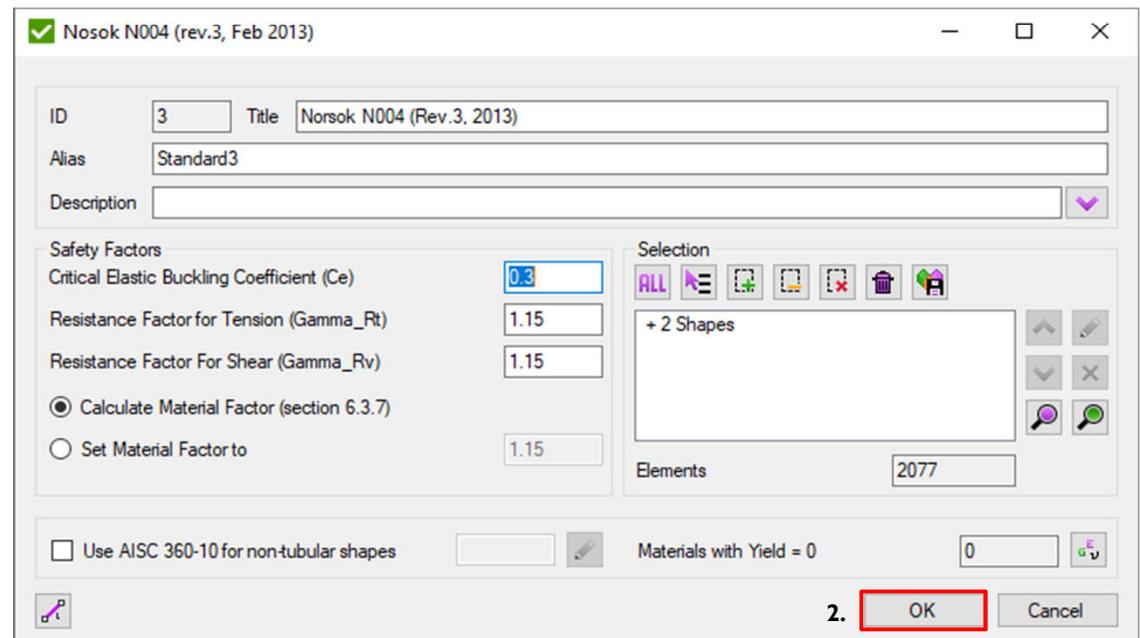
Execute *Standards* => *Add* => *Norsok N004 (rev.3, Feb 2013)*.

2

Press *OK* twice



Norsok N004 procedure is similar to API 2A RP. In overall check it is possible to verify if the structure passes all checks : Overall Utilization Factor = worst  $U_f$  among all checks  $< 1$ .



# Add Norsok N004 standard

$$\begin{aligned}
 C_e &= \text{critical elastic buckling coefficient} = 0.3 \\
 \gamma_{R,t} &= \text{material factor for tension} = 1.15 \\
 \gamma_{R,v} &= \text{material factor for shear} = 1.15 \\
 \gamma_M &= \text{see section 6.3.7} \\
 \gamma_M &= 1.15 \quad \text{for } \bar{\lambda}_s < 0.5 \\
 \gamma_M &= 0.85 + 0.60\bar{\lambda}_s \quad \text{for } 0.5 \leq \bar{\lambda}_s \leq 1.0 \\
 \gamma_M &= 1.45 \quad \text{for } \bar{\lambda}_s > 1.0
 \end{aligned} \tag{6.22}$$

where

$$\bar{\lambda}_s = \frac{|\sigma_{c,Sd}|}{f_{cl}} \cdot \lambda_c + \left( \frac{\sigma_{p,Sd}}{f_h} \right)^2 \cdot \lambda_h \tag{6.23}$$

where  $f_{cl}$  is calculated from Equation (6.6) or Equation (6.7) whichever is appropriate and  $f_h$  from Equation (6.17), Equation (6.18), or Equation (6.19) whichever is appropriate.

$$\lambda_c = \sqrt{\frac{f_y}{f_{cle}}}, \text{ and } \lambda_h = \sqrt{\frac{f_y}{f_{he}}} \tag{6.24}$$

$f_{cle}$  and  $f_{he}$  is obtained from Equation (6.8), and Equation (6.20) respectively.

$\sigma_{p,Sd}$  is obtained from Equation (6.16) and

$$\sigma_{c,Sd} = \frac{N_{Sd}}{A} + \frac{\sqrt{M_{y,Sd}^2 + M_{z,Sd}^2}}{W} \tag{6.25}$$

$N_{Sd}$  is negative if in tension.

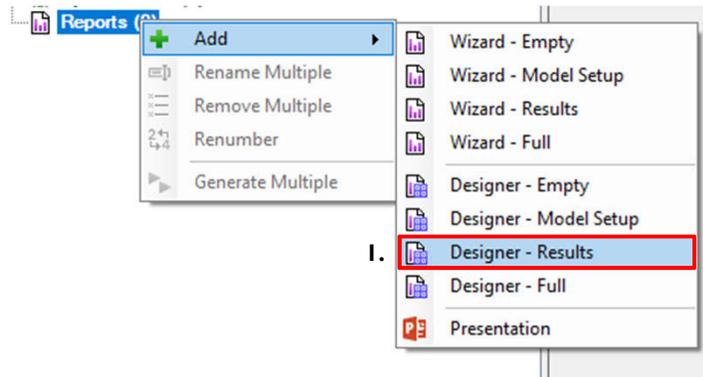
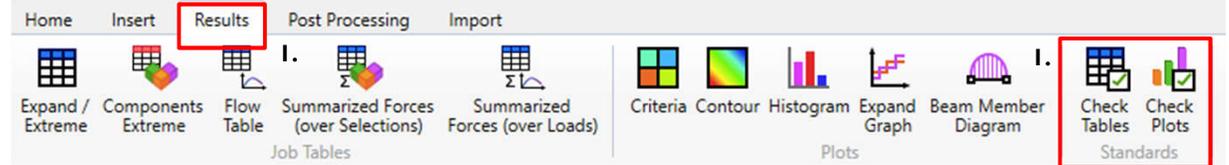
# Report

1

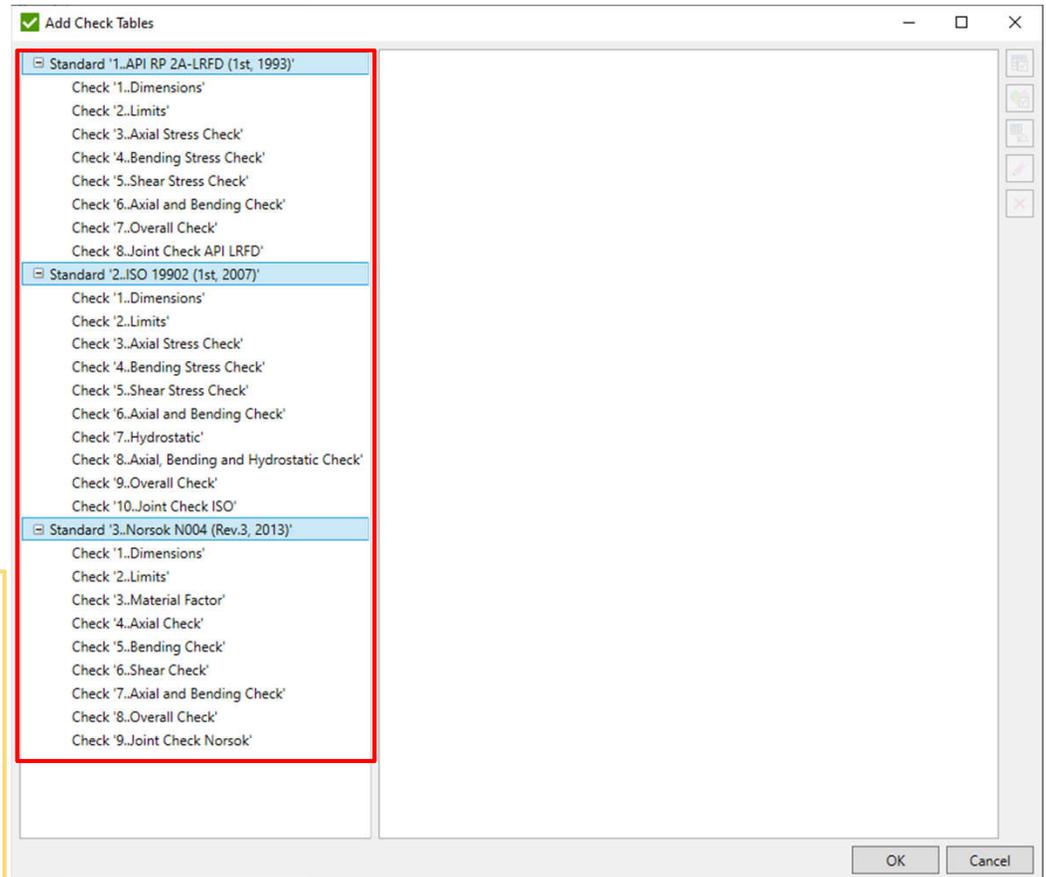
Execute *Reports – Add – Designer – Results*.

2

Results – Check Tables/Check Plots - all checks except the '**8.Overall check**' in each standard.



2.



There are 4 templates of the reports:  
*Empty* – only first page and preface items are included;  
*Model Setup* – description of the model data (materials, properties, components, boundary conditions) is included;  
*Results* – for each load extreme displacement tables, stress and displacement plots are included. Predefined tables: sum of reaction forces, stresses/displacements summary tables;  
*Full* – Model Setup + Results + all tables created in Job.

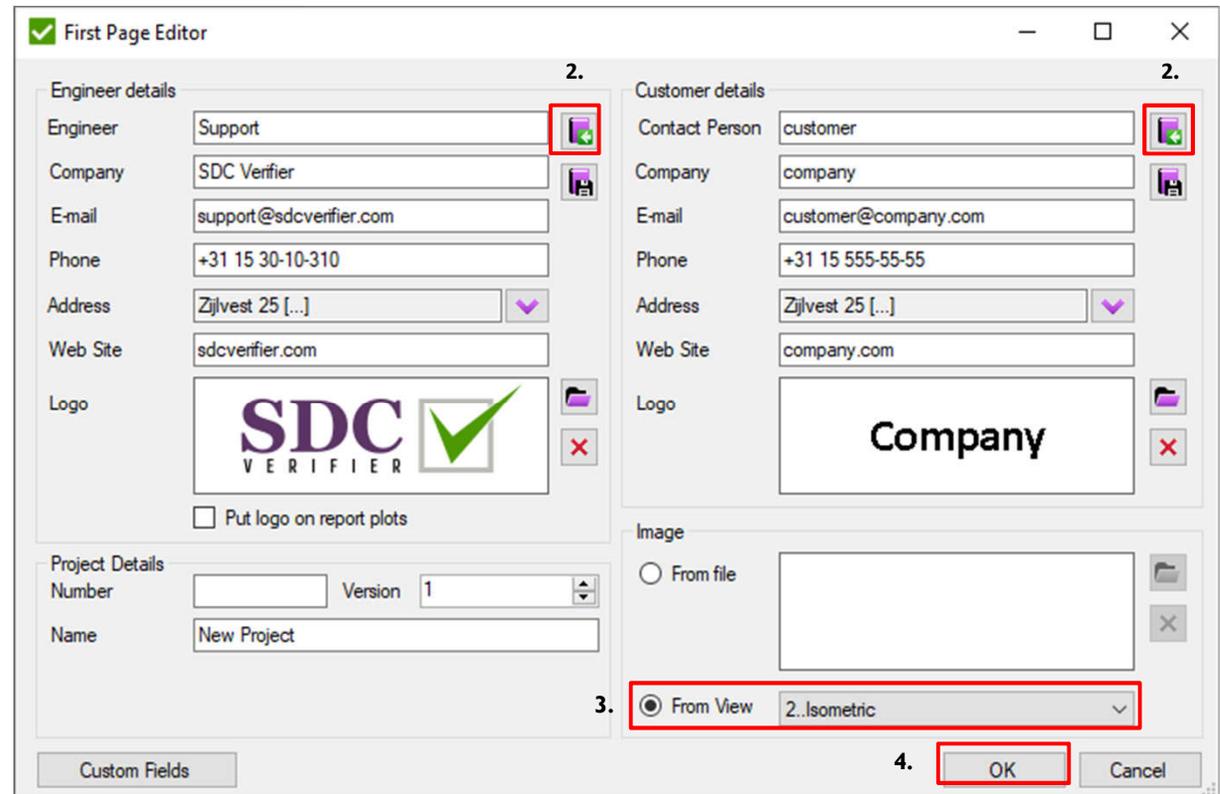
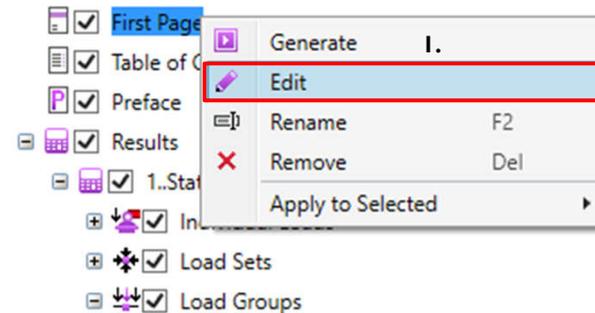
# Report. First Page

1 Right click on *First Page* => *Edit*.

2 Press  to load engineer and customer info from library

3 Select Image *From View* and pick '*2..Isometric*'.

4 Press *OK*.



The 'First Page Editor' dialog box is shown. It has two columns for 'Engineer details' and 'Customer details'. The 'Engineer' field is set to 'Support' and the 'Contact Person' field is set to 'customer'. Both fields have a red box around the 'Load from library' icon. The 'Image' section at the bottom has 'From View' selected and '2..Isometric' chosen from the dropdown, both highlighted with a red box. The 'OK' button is also highlighted with a red box.

Field	Value
Engineer	Support
Company	SDC Verifier
E-mail	support@sdcverifier.com
Phone	+31 15 30-10-310
Address	Zijlvest 25 [...]
Web Site	sdcverifier.com
Logo	
Project Details Number	
Version	1
Name	New Project
Contact Person	customer
Company	company
E-mail	customer@company.com
Phone	+31 15 555-55-55
Address	Zijlvest 25 [...]
Web Site	company.com
Logo	Company
Image Source	From View
Image Name	2..Isometric

