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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | | | | | |
|  | | | |  | |  | |  |
| **Results report** |  |  |  | | | | | |
| AISC360 Tutorial |  |  |  | | | | | |
|  |  |  |  | | | | | |
| Prepared by: | | | |  | | Prepared for: | |  |
| SDC Verifier |  | | | | | demo.com |  | |
| +31 15 30-10-310 |  | | | | |  |  | |
| sdcverifier.com |  | | | | |  |  | |
| Zijlvest 25 2011 VB Haarlem The Netherlands | | | |  | |  | |  |
|  |  |  |  | | | | | |
|  |  |  |  | | | | | |
| **Engineer:** | | | | Support |  | | |  |
| **Customer:** | | | | Demo |  | | |  |
| **Project Number:** | | | |  |  | | |  |
| **Version:** | | | | 1 |  | | |  |
| **Date:** | | | | 14-07-2020 |  | | |  |

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# Preface

This document is generated with SDC Verifier 20.0 and calculated with Ansys v2020 R1

Model File: D:\Other\Optimization tool\Optimization tool\_files\dp0\global\MECH\SYS.mechdb

Project File: D:\Other\Optimization tool\Optimization tool\_files\dp0\SDCvf\ACT\Optimization tool.ansv

Report Profile: 1..Results report

Generation on: 14-Jul-20 6:50:49 PM

Unit System

Current Unit System = MKS (Meter/Kg/Second). It is used in calculations for the following standards: API RP 2A, ISO 19902, Norsok N004, DIN 15018, FEM 1.001 and Eurocode3.

|  |  |
| --- | --- |
| Dimensions | Value |
| Length | Meter |
| Mass | Kilogram |
| Time | Second |
| Force | Newton |
| Stress | Pa |

# FEM Model Description

This paragraph shows detailed or brief model overview.

## Materials

This paragraph contains materials information.

### Materials Summary(All Entities)

|  |  |  |  |
| --- | --- | --- | --- |
| Title | Elements | Mass | Mass Density |
| 1..Structural Steel | 5727 | 55247.7 | 7,850.00 |
| Full Model | 5727 | 95247.7 | 7,850.00 |

### Material Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Title | Young Modulus [Pa] | Shear Modulus [Pa] | Poisson Ratio | Shear [Pa] | Mass Density [kg/m^3] | Tensile Strength [Pa] | Yield Stress [Pa] |
| 1..Structural Steel | 2.00e+11 | 76923076923.08 | 0.30 | 1.00 | 7850.00 | 470.00e+6 | 355.00e+6 |

### 1..Structural Steel

Fatigue Data at zero mean stress comes from 1998 ASME BPV Code, Section 8, Div 2, Table 5-110.1

|  |  |
| --- | --- |
| Property | Value |
| Elements | 5727 |
| Mass [kg] | 55247.7 |
| Young Modulus [Pa] | 2.00e+11 |
| Shear Modulus [Pa] | 76923076923.08 |
| Poisson Ratio | 0.30 |
| Shear [Pa] | 1.00 |
| Mass Density [kg/m^3] | 7850.00 |
| Tensile Strength [Pa] | 470.00e+6 |
| Yield Stress [Pa] | 355.00e+6 |

|  |
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## Properties

This paragraph contains properties information.

### Properties Summary

|  |  |  |  |
| --- | --- | --- | --- |
| Title | Elements | Material | Mass [kg] |
| 1..Main Vertical 480x30 (30 bodies) | 780 | 1..Structural Steel | 25967.3 |
| 2..IPE400 (54 bodies) | 1010 | 1..Structural Steel | 6333.2 |
| 3..Pipe D200x10 (35 bodies) | 1227 | 1..Structural Steel | 5652.4 |
| 4..IPE300 (14 bodies) | 350 | 1..Structural Steel | 1425.4 |
| 5..Pipe D100x10 (20 bodies) | 530 | 1..Structural Steel | 1172.1 |
| 6..Tube rectangular 400x200x20 (36 bodies) | 564 | 1..Structural Steel | 9671.2 |
| 7..Pipe D150x8 (24 bodies) | 390 | 1..Structural Steel | 1067.5 |
| 8..Pipe D130x7 (16 bodies) | 288 | 1..Structural Steel | 600.5 |
| 9..Tube rectangular 300x100x10 (8 bodies) | 104 | 1..Structural Steel | 596.6 |
| 10..Pipe D160x8 (4 bodies) | 52 | 1..Structural Steel | 149.9 |
| 11..Pipe D220x12 (18 bodies) | 432 | 1..Structural Steel | 2611.4 |
| Summed Over Properties | 5727 |  | 55247.7 |
| Full Model | 5727 |  | 95247.7 |

### 1..Main Vertical 480x30 (30 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 780 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 25967.3 |
| Area, [m^2] | 0.04 |
| I1, [m^4] | 1.078e-03 |
| I2, [m^4] | 1.078e-03 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 2.156e-03 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 0 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| r [m] | 0.240 |  |
| t [m] | 0.030 |  |

|  |
| --- |
|  |

### 2..IPE400 (54 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 1010 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 6333.2 |
| Area, [m^2] | 0.01 |
| I1, [m^4] | 1.314e-05 |
| I2, [m^4] | 2.188e-04 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 3.849e-07 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0.20 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 4.886e-07 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| h [m] | 0.400 |  |
| wt [m] | 0.180 |  |
| wb [m] | 0.180 |  |
| tf2 [m] | 0.014 |  |
| tw [m] | 0.009 |  |
| tf1 [m] | 0.014 |  |

|  |
| --- |
|  |

### 3..Pipe D200x10 (35 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 1227 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 5652.4 |
| Area, [m^2] | 0.01 |
| I1, [m^4] | 2.701e-05 |
| I2, [m^4] | 2.701e-05 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 5.401e-05 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 0 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| r [m] | 0.100 |  |
| t [m] | 0.010 |  |

|  |
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|  |

### 4..IPE300 (14 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 350 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 1425.4 |
| Area, [m^2] | 0.01 |
| I1, [m^4] | 6.027e-06 |
| I2, [m^4] | 7.999e-05 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 1.605e-07 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0.15 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 1.255e-07 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| h [m] | 0.300 |  |
| wt [m] | 0.150 |  |
| wb [m] | 0.150 |  |
| tf2 [m] | 0.011 |  |
| tw [m] | 0.007 |  |
| tf1 [m] | 0.011 |  |

|  |
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|  |

### 5..Pipe D100x10 (20 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 530 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 1172.1 |
| Area, [m^2] | 2.827e-03 |
| I1, [m^4] | 2.898e-06 |
| I2, [m^4] | 2.898e-06 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 5.795e-06 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 0 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| r [m] | 0.050 |  |
| t [m] | 0.010 |  |

|  |
| --- |
|  |

### 6..Tube rectangular 400x200x20 (36 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 564 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 9671.2 |
| Area, [m^2] | 0.02 |
| I1, [m^4] | 1.438e-04 |
| I2, [m^4] | 4.446e-04 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 3.502e-04 |
| Y Shear Area, [m^2] | 0.10 |
| Z Shear Area, [m^2] | 0.20 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 3.421e-07 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| w [m] | 0.200 |  |
| h [m] | 0.400 |  |
| t1 [m] | 0.020 |  |
| t2 [m] | 0.020 |  |
| t3 [m] | 0.020 |  |
| t4 [m] | 0.020 |  |

|  |
| --- |
|  |

### 7..Pipe D150x8 (24 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 390 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 1067.5 |
| Area, [m^2] | 3.569e-03 |
| I1, [m^4] | 9.023e-06 |
| I2, [m^4] | 9.023e-06 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 1.805e-05 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 0 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| r [m] | 0.075 |  |
| t [m] | 0.008 |  |

|  |
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|  |

### 8..Pipe D130x7 (16 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 288 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 600.5 |
| Area, [m^2] | 2.705e-03 |
| I1, [m^4] | 5.131e-06 |
| I2, [m^4] | 5.131e-06 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 1.026e-05 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 0 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| r [m] | 0.065 |  |
| t [m] | 0.007 |  |

|  |
| --- |
|  |

### 9..Tube rectangular 300x100x10 (8 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 104 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 596.6 |
| Area, [m^2] | 0.01 |
| I1, [m^4] | 1.305e-05 |
| I2, [m^4] | 7.865e-05 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 3.719e-05 |
| Y Shear Area, [m^2] | 0.05 |
| Z Shear Area, [m^2] | 0.15 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 3.467e-08 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| w [m] | 0.100 |  |
| h [m] | 0.300 |  |
| t1 [m] | 0.010 |  |
| t2 [m] | 0.010 |  |
| t3 [m] | 0.010 |  |
| t4 [m] | 0.010 |  |

|  |
| --- |
|  |

### 10..Pipe D160x8 (4 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 52 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 149.9 |
| Area, [m^2] | 3.820e-03 |
| I1, [m^4] | 1.106e-05 |
| I2, [m^4] | 1.106e-05 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 2.212e-05 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 0 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| r [m] | 0.080 |  |
| t [m] | 0.008 |  |

|  |
| --- |
|  |

### 11..Pipe D220x12 (18 bodies)

|  |  |  |
| --- | --- | --- |
| Property | Value | Property Shape |
| Type / Elements | Beam / 432 |  |
| Material | 1..Structural Steel |
| Mass [kg] | 2611.4 |
| Area, [m^2] | 0.01 |
| I1, [m^4] | 4.254e-05 |
| I2, [m^4] | 4.254e-05 |
| I12, [m^4] | 0 |
| Torsion Constant, [m^4] | 8.508e-05 |
| Y Shear Area, [m^2] | 0 |
| Z Shear Area, [m^2] | 0 |
| Nonstructural Mass, [kg] | 0 |
| Perimeter, [m] | 0 |
| Warping Constant, [m^6] | 0 |
| Y Neutral Axis Offset A, [m] | 0 |
| Z Neutral Axis Offset A, [m] | 0 |
| r [m] | 0.110 |  |
| t [m] | 0.012 |  |

|  |
| --- |
|  |

## Components

This paragraph contains information about components. Component is a selection of nodes or elements based on rules.

### 1..Vertcial toobes

|  |  |
| --- | --- |
| Property | Value |
| Count | 780 |
| X [Min;Max] [m] | [-2.50; 2.50] |
| Y [Min;Max] [m] | [0.00; 13.00] |
| Z [Min;Max] [m] | [-5.00; 5.10] |

|  |
| --- |
|  |

### 2..Horizontals

|  |  |
| --- | --- |
| Property | Value |
| Count | 1010 |
| X [Min;Max] [m] | [-2.50; 2.50] |
| Y [Min;Max] [m] | [2.90; 8.00] |
| Z [Min;Max] [m] | [-5.00; 5.00] |

|  |
| --- |
|  |

### 3..Floor beams

|  |  |
| --- | --- |
| Property | Value |
| Count | 564 |
| X [Min;Max] [m] | [-2.50; 2.50] |
| Y [Min;Max] [m] | [13.00; 13.10] |
| Z [Min;Max] [m] | [-5.00; 5.00] |

|  |
| --- |
|  |

### 4..Crossings

|  |  |
| --- | --- |
| Property | Value |
| Count | 1152 |
| X [Min;Max] [m] | [-2.50; 2.50] |
| Y [Min;Max] [m] | [2.97; 13.03] |
| Z [Min;Max] [m] | [-5.00; 5.03] |

|  |
| --- |
|  |

### 5..Diagonals

|  |  |
| --- | --- |
| Property | Value |
| Count | 530 |
| X [Min;Max] [m] | [-2.50; 2.50] |
| Y [Min;Max] [m] | [3.00; 8.00] |
| Z [Min;Max] [m] | [-5.00; 5.10] |

|  |
| --- |
|  |

# 1..Eurocode3 Members (EN1993-1-1, 2005)

|  |  |
| --- | --- |
| Property | Value |
| Type | Predefined Standard |
| Constants | 23 |
| Classifications | 0 |
| Standard Tables | 1 |
| Checks | 19 |

## Constant

|  |  |  |
| --- | --- | --- |
| Title | Value | Description |
| Gm0 | 1 |  |
| Gm1 | 1 |  |
| Gm2 | 1.25 |  |
| Lambda\_LT0 | 0.4 | plateau length of the lateral torsional buckling curves for rolled sections |
| BetaConstant | 0.75 | correction factor for the lateral torsional buckling curves for rolled sections |
| Eta | 1.2 |  |
| KcIsConstant | 0 | Use 0 to calculate Correction Factor Kc according to Table 6.6, 1 - to set Kc = 1 for all members |
| UseTorsionalLengthFromBeamMemberFinder | 0 | Lt - length torsional and torsional-flexular buckling, L\_Lt - length for lateral torsional buckling will be used from Beam Member Finder if set to 1. Otherwise Lt = max{Ly, Lz} and L\_Lt= {Ly or Lz} along strong axis |
| Class1 | 1 |  |
| Class2 | 2 |  |
| Class3 | 3 |  |
| Class4 | 4 |  |
| Rolled | 1 |  |
| Welded | 2 |  |
| a0 | 1 |  |
| a | 2 |  |
| b | 3 |  |
| c | 4 |  |
| d | 5 |  |
| HotFinished | 1 |  |
| ColdFormed | 2 |  |
| S460 | 2 |  |
| CalculateAsymmetricAsSymmetric | 0 | Calculate asymmetric shapes as symmetric. Min width and thicknesses are used. |

## Characteristics

This paragraph contains information about extra elemental characteristics.

### 1..Fabrication Type

|  |  |
| --- | --- |
| Property | Value |
| Type | Property '1..Fabrication Type' |
| Alias | FabricationType |
| 1..Main Vertical 480x30 (30 bodies) | Rolled |
| 2..IPE400 (54 bodies) | Rolled |
| 3..Pipe D200x10 (35 bodies) | Rolled |
| 4..IPE300 (14 bodies) | Rolled |
| 5..Pipe D100x10 (20 bodies) | Rolled |
| 6..Tube rectangular 400x200x20 (36 bodies) | Rolled |
| 7..Pipe D150x8 (24 bodies) | Rolled |
| 8..Pipe D130x7 (16 bodies) | Rolled |
| 9..Tube rectangular 300x100x10 (8 bodies) | Rolled |
| 10..Pipe D160x8 (4 bodies) | Rolled |
| 11..Pipe D220x12 (18 bodies) | Rolled |

### 2..Manufacture Method

|  |  |
| --- | --- |
| Property | Value |
| Type | Property '2..Manufacture Method' |
| Alias | Hollow |
| 1..Main Vertical 480x30 (30 bodies) | Hot Finished |
| 2..IPE400 (54 bodies) | Hot Finished |
| 3..Pipe D200x10 (35 bodies) | Hot Finished |
| 4..IPE300 (14 bodies) | Hot Finished |
| 5..Pipe D100x10 (20 bodies) | Hot Finished |
| 6..Tube rectangular 400x200x20 (36 bodies) | Hot Finished |
| 7..Pipe D150x8 (24 bodies) | Hot Finished |
| 8..Pipe D130x7 (16 bodies) | Hot Finished |
| 9..Tube rectangular 300x100x10 (8 bodies) | Hot Finished |
| 10..Pipe D160x8 (4 bodies) | Hot Finished |
| 11..Pipe D220x12 (18 bodies) | Hot Finished |

### 3..Fillet

|  |  |
| --- | --- |
| Property | Value |
| Type | Property '3..Fillet' |
| Alias | Fillet |
| 1..Main Vertical 480x30 (30 bodies) | 0 |
| 2..IPE400 (54 bodies) | 0 |
| 3..Pipe D200x10 (35 bodies) | 0 |
| 4..IPE300 (14 bodies) | 0 |
| 5..Pipe D100x10 (20 bodies) | 0 |
| 6..Tube rectangular 400x200x20 (36 bodies) | 0 |
| 7..Pipe D150x8 (24 bodies) | 0 |
| 8..Pipe D130x7 (16 bodies) | 0 |
| 9..Tube rectangular 300x100x10 (8 bodies) | 0 |
| 10..Pipe D160x8 (4 bodies) | 0 |
| 11..Pipe D220x12 (18 bodies) | 0 |

### 4..Section net area

|  |  |
| --- | --- |
| Property | Value |
| Type | Element '4..Section net area' |
| Alias | Anet |
| All | 0 |

### 5..Material Type

|  |  |
| --- | --- |
| Property | Value |
| Type | Material '5..Material Type' |
| Alias | MaterialType |
| 1..Structural Steel | S235\_S275\_S355\_S420 |

## Standard Tables

### 1..Imperfection factors

|  |  |
| --- | --- |
| Property | Value |
| Type | Standard Table |
| Alias | ImperfectionFactors |

#### Description

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0.13 | 0.21 | 0.34 | 0.49 | 0.76 |

## Checks

This paragraph contains checks descriptions with their results.

### 19..Buckling and Overall

|  |  |
| --- | --- |
| Property | Value |
| Category | Elemental Custom Check |
| Selection | 11 Properties |
| Parameters | 7 |

1..All (LG1, 5 Selections)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Check | [S1] 19..Buckling and Overall | | | | Load Group | | LG1..Overall | | | |
| Selection | 5 Selections | | | |  | |  | | | |
| Components | | Uf Axial | Uf Bending | Uf Combined 61 | | Uf Combined 62 | | Uf Buckling | Uf Section | Uf Overall |
| Component '1..Vertcial toobes' | | 0.3502 | 0.4259 | 0.4788 | | 0.3858 | | 0.4788 | 0.4259 | 0.4788 |
| Component '2..Horizontals' | | 0.0505 | 1.8036 | 1.7939 | | 1.8469 | | 1.8469 | 0.8039 | 1.8469 |
| Component '3..Floor beams' | | 0.1928 | 1.2120 | 0.9194 | | 1.2265 | | 1.2265 | 1.3778 | 1.3778 |
| Component '4..Crossings' | | 0.4723 | 0.1004 | 0.4919 | | 0.4797 | | 0.4919 | 0.1951 | 0.4919 |
| Component '5..Diagonals' | | 0.3059 | 0.0303 | 0.3206 | | 0.3140 | | 0.3206 | 0.1678 | 0.3206 |

1..Abs Uf Overall (LG1, 11 Properties, v1)

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| Check | [S1] 19..Buckling and Overall | Load Group | LG1..Overall |
| Parameter | Absolute Uf Overall | Selection | Component '7..Plot' |
| View | 1..Default View | Data Conversion | No Averaging |