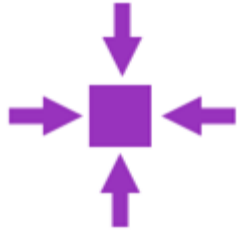


SDC
V E R I F I E R



We check structures according to standards

Software: What is SDC Verifier?



Load Combination



Recognition

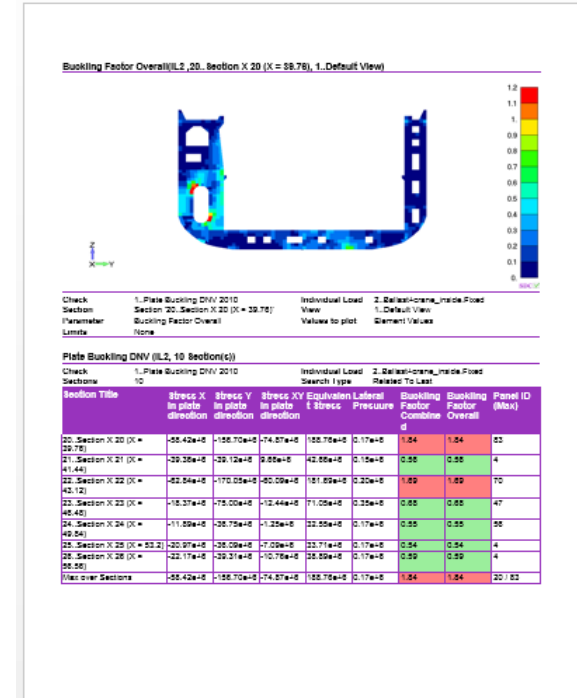
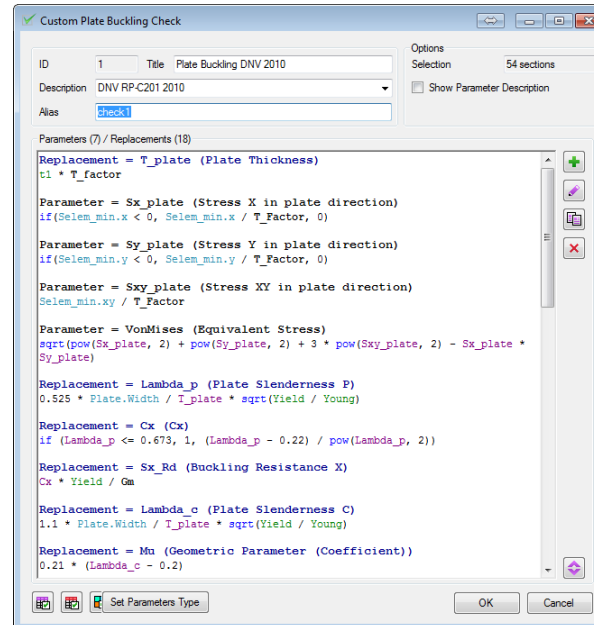
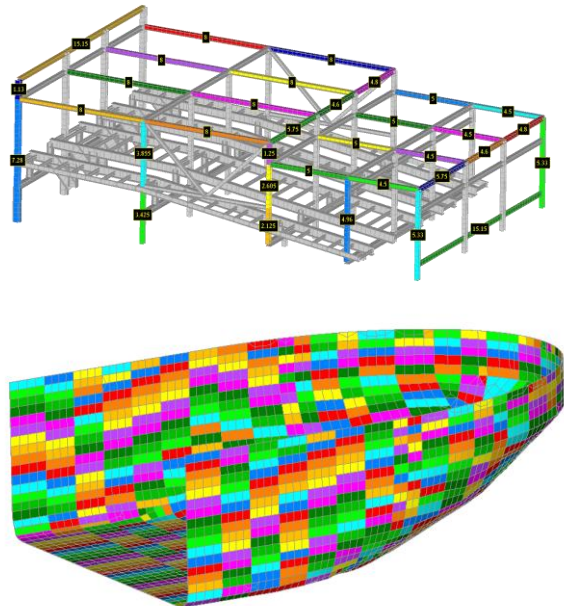


Checks



Reports

	IL1	IL2	IL3	IL4
LC1_Long_forestay_1	1.43			
LC1_Long_forestay_2	1.43			
LC1_Long_forestay_3	1.43			
LC1_Long_forestay_4	1.43			
LC1_Long_short_1		1.43		
LC1_Long_short_2		1.43		
LC1_Long_short_3		1.43		
LC1_Long_short_4		1.43		
LC1_Short_forestay_1			1.43	
LC1_Short_forestay_2			1.43	
LC1_Short_forestay_3			1.43	
LC1_Short_forestay_4			1.43	
LC1_Long_short_1				1.43
LC1_Long_short_2				1.43
LC1_Long_short_3				1.43
LC1_Long_short_4				1.43



Seamless integration with:

FEMAP

Coming soon for:

SIMCENTER

ANSYS[®]

3 Load Groups

- Software
- Load Combination
 - Recognition
 - Checks
 - Reports

19 Individual loads

Table 10 — Loads, load combinations and partial safety factors

Categories of loads	Loads f_i	i	Ref.	Load combinations A					Load combinations B					Load combinations C										
				Partial safety factors	A1	A2	A3	A4	Partial safety factors	B1	B2	B3	B4	B5	Partial safety factors	C1	C2	C3	C4	C5	C6	C7	C8	C9
Regular	Gravitation acceleration, Impacts	1	4.2.2.1	*	ϕ_1													1	1	1	1	1	1	
		2	4.2.2.2	1,34	ϕ_2													1	1	1	1	1		
	3	4.2.2.3	1,22	-														-	-	-	-	-	-	
	4	4.2.2.4	1,34	ϕ_5	ϕ_5	-	ϕ_5		1,22	ϕ_5	ϕ_5	-	ϕ_5	-	1,1	-	-	ϕ_5	-	-	-	-	-	-
Occasional	Displacements	5			-	-	ϕ_5			-	-	ϕ_5						-	-	-	-	-	-	
		6	4.2.2.5	**	1	1	1	1	**	1	1	1	1	1	**	1	1	1	1	1	1	1	1	
	Environmental actions	7	4.2.3.1	-	-	-	-	-	1,22	1	1	1	1	1	1,16	-	-	1	-	-	-	-	-	-
		8	4.2.3.2	-	-	-	-	-	1,22	1	1	1	1	1	1,1	-	1	-	-	-	-	-	-	-
	Skewing	9	4.2.3.3	-	-	-	-	-	1,16	1	1	1	1	1	1,05	-	1	-	-	-	-	-	-	-
		10	4.2.3.4	-	-	-	-	-	1,16	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Exceptional	Hoisting a grounded load	11	4.2.4.1	-	-	-	-	-	-	-	-	-	-	1,1	ϕ_2	-	-	-	-	-	-	-	-	
		12	4.2.4.2	-	-	-	-	-	-	-	-	-	-	1,16	-	1	-	-	-	-	-	-	-	
	Out-of-service wind loads	13	4.2.4.3	-	-	-	-	-	-	-	-	-	-	1,1	-	-	ϕ_5	-	-	-	-	-	-	
		14	4.2.4.4	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	ϕ_7	-	-	-	-	-	
	Test loads	15	4.2.4.5	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	1	-	-	-	-	
		16	4.2.4.6	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	ϕ_5	-	-	-	
	Buffer forces	17	4.2.4.7	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	ϕ_5	-	-	
		18	4.2.4.8	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	1	-	
	Tilting forces	19	4.2.4.9	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	-	1	
		18	4.2.4.8	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	1	-	
Emergency cut-out	17	4.2.4.7	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	ϕ_5	-		
	16	4.2.4.6	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	-	ϕ_5		
Failure of mechanism	17	4.2.4.7	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	ϕ_5	-		
	16	4.2.4.6	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	-	ϕ_5		
Excitation of the crane foundation	18	4.2.4.8	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	1	-		
	19	4.2.4.9	-	-	-	-	-	-	-	-	-	-	1,1	-	-	-	-	-	-	-	-	1		
Overall safety factor γ_1																								
Resistance coefficient γ_w																								

18 Load Sets

✓ Add Load Sets

Load Sets Table

	Side, Fz, fixed_to_side	top, Fy, fixed_to_side	top, Fz, fixed_to_side	combined, fixed_to_side
LC1		0,95		1,01
LC2	1,23	1,64	2,01	0,92
LC3	1	0,89		1
LC4	-1	0,89		1
LC5	1,2	-1,1	0,95	
LC6	1	1	1	1

Add Load Sets

No. Load Sets: 3

Add

Set Factor Factor: 1

Set to selected

Excel Import

Copy factors (Clipboard)

Paste factors (Clipboard)

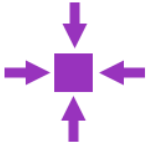
Paste Load Sets (Clipboard)

OK Cancel



	A	B	C	D	E
1	LC1		0,95		1,01
2	LC2	1,23	1,64	2,01	0,92
3	LC3	1	0,89		1
4	LC4	-1	0,89		1
5	LC5	1,2	-1,1	0,95	
6	LC6	1	1	1	1
7					

Software



Load Combination



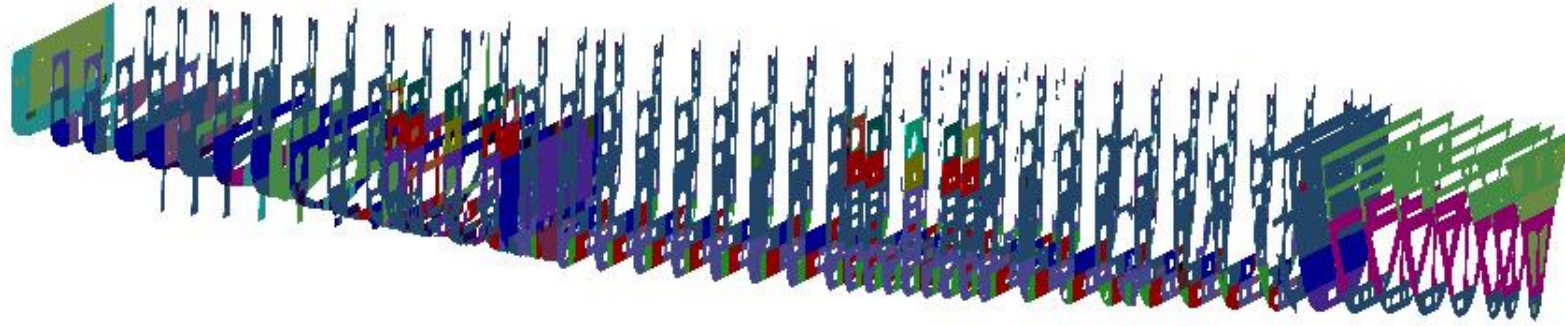
Recognition



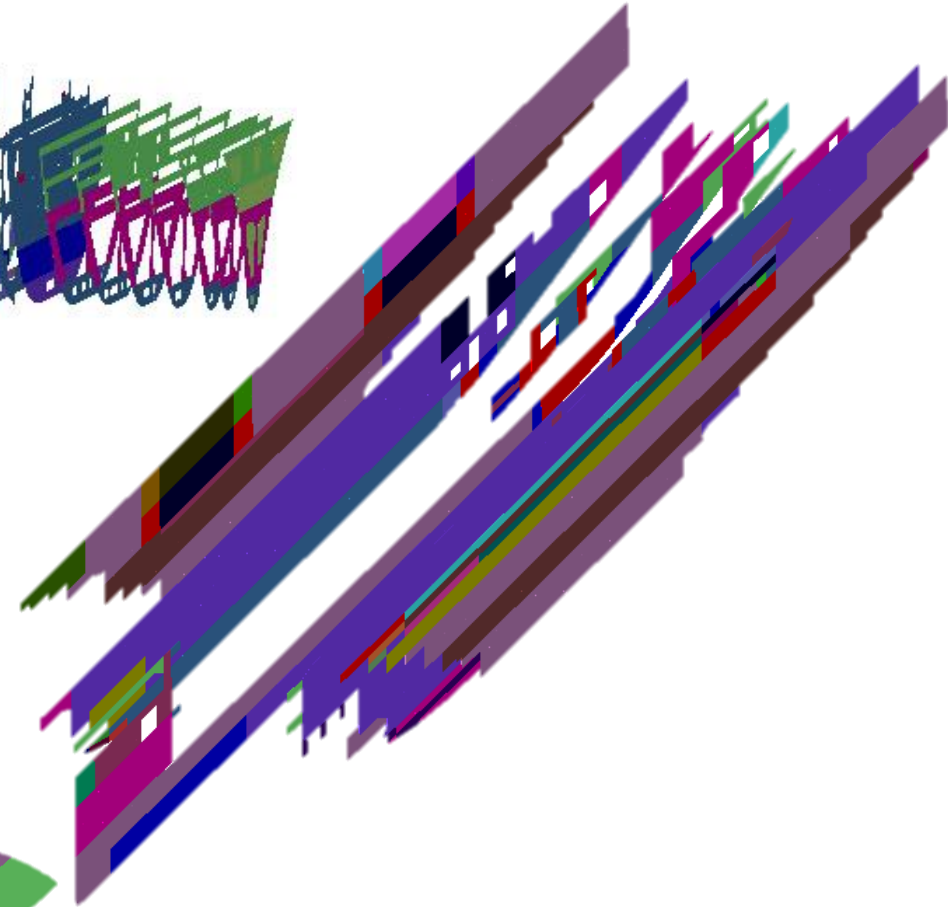
Checks



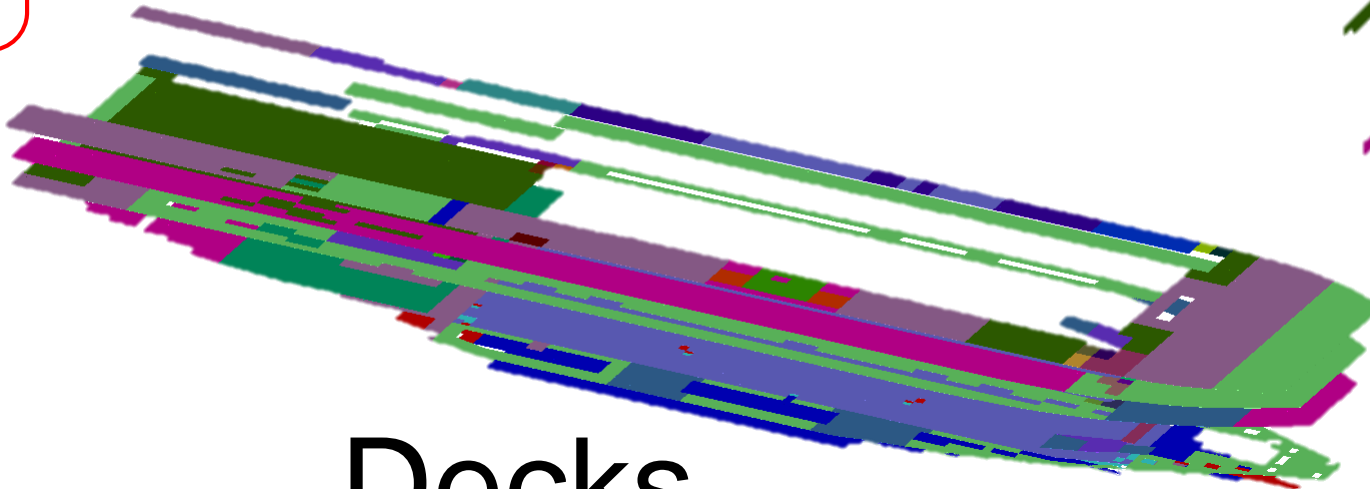
Reports



Frames



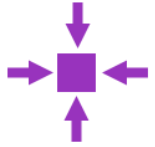
Longitudinals



Decks

Panel Finder. Recognition of plates

Software



Load Combination



Recognition

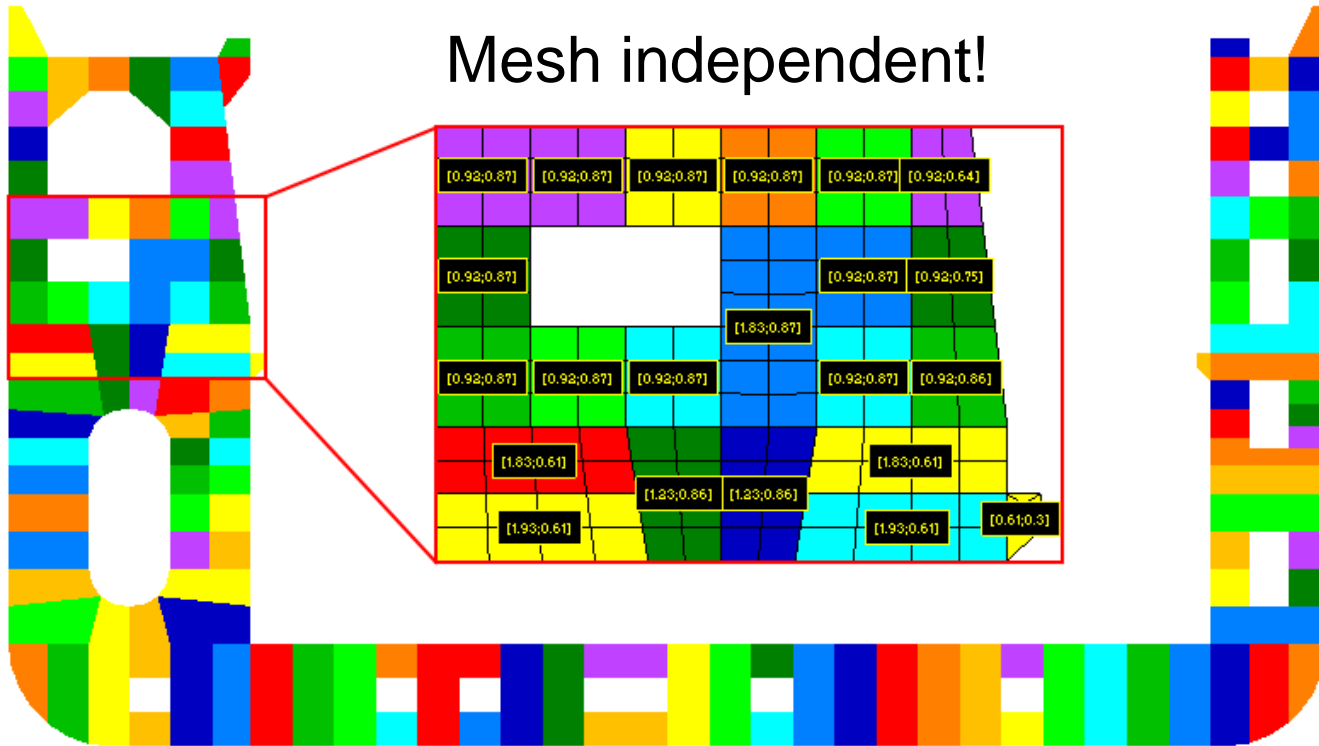


Checks

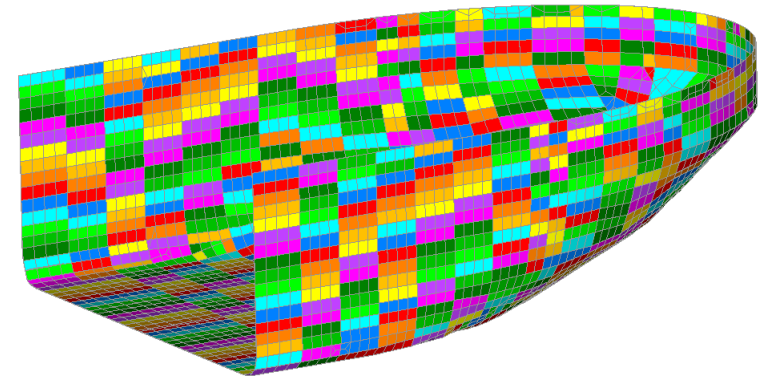
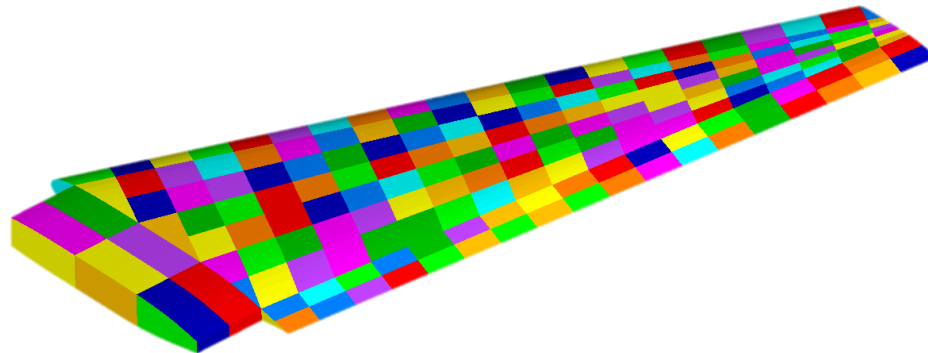


Reports

Mesh independent!

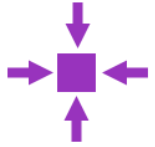


- Frames
 - Frame 0 (X= 0)
 - Frame 1 (X= 1.9)
 - Frame 2 (X= 3.8)
 - Frame 3 (X= 5.7)
 - Frame 4 (X= 7.6)
 - Frame 5 (X= 9.5)
 - Frame 6 (X= 11.4)
 - Frame 7 (X= 13.3)
 - Frame 8 (X= 15.2)
 - Frame 9 (X= 17.1)
 - Frame 10 (X= 19)
 - • •
 - Frame 87 (X= 165.3)
- Longitudinals
- Decks



Recognition of panels and stiffeners

Software



Load Combination



Recognition

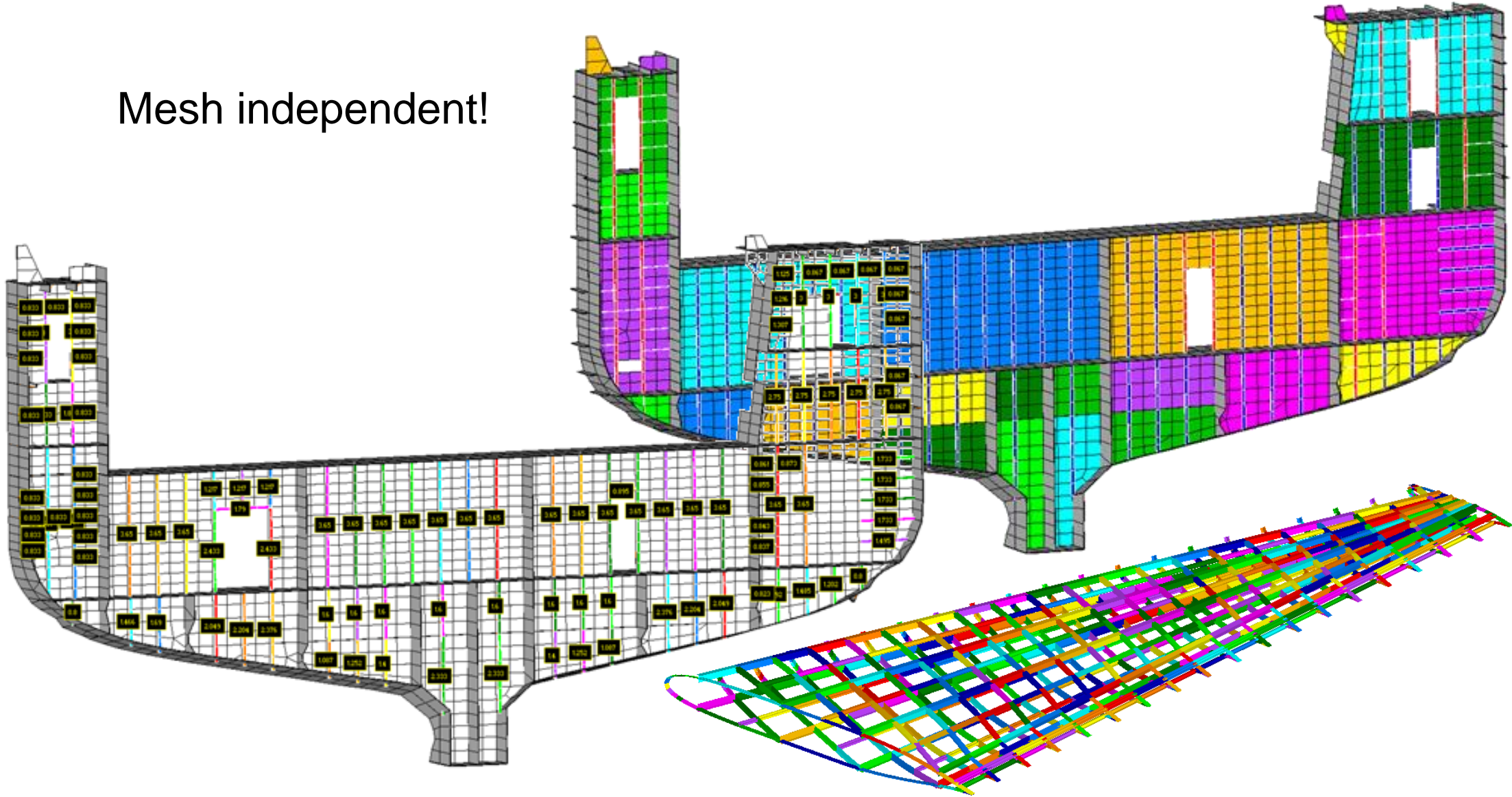


Checks

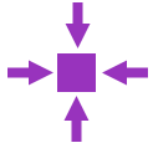


Reports

Mesh independent!



Software



Load Combination



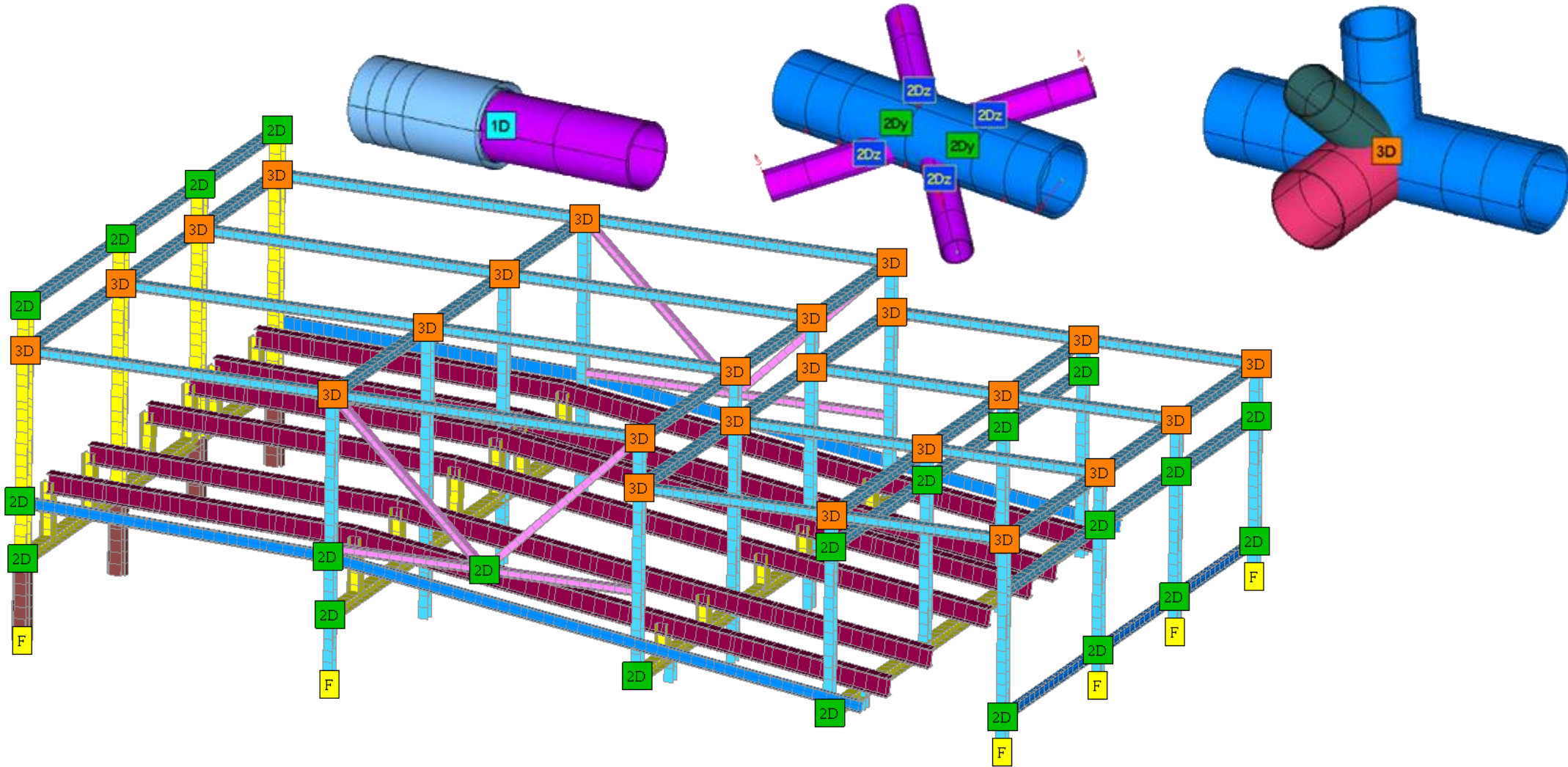
Recognition



Checks



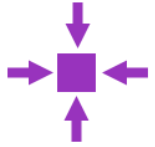
Reports



Joints are used to determine buckling lengths and for Joint Checks

Recognition of beam members

Software



Load Combination



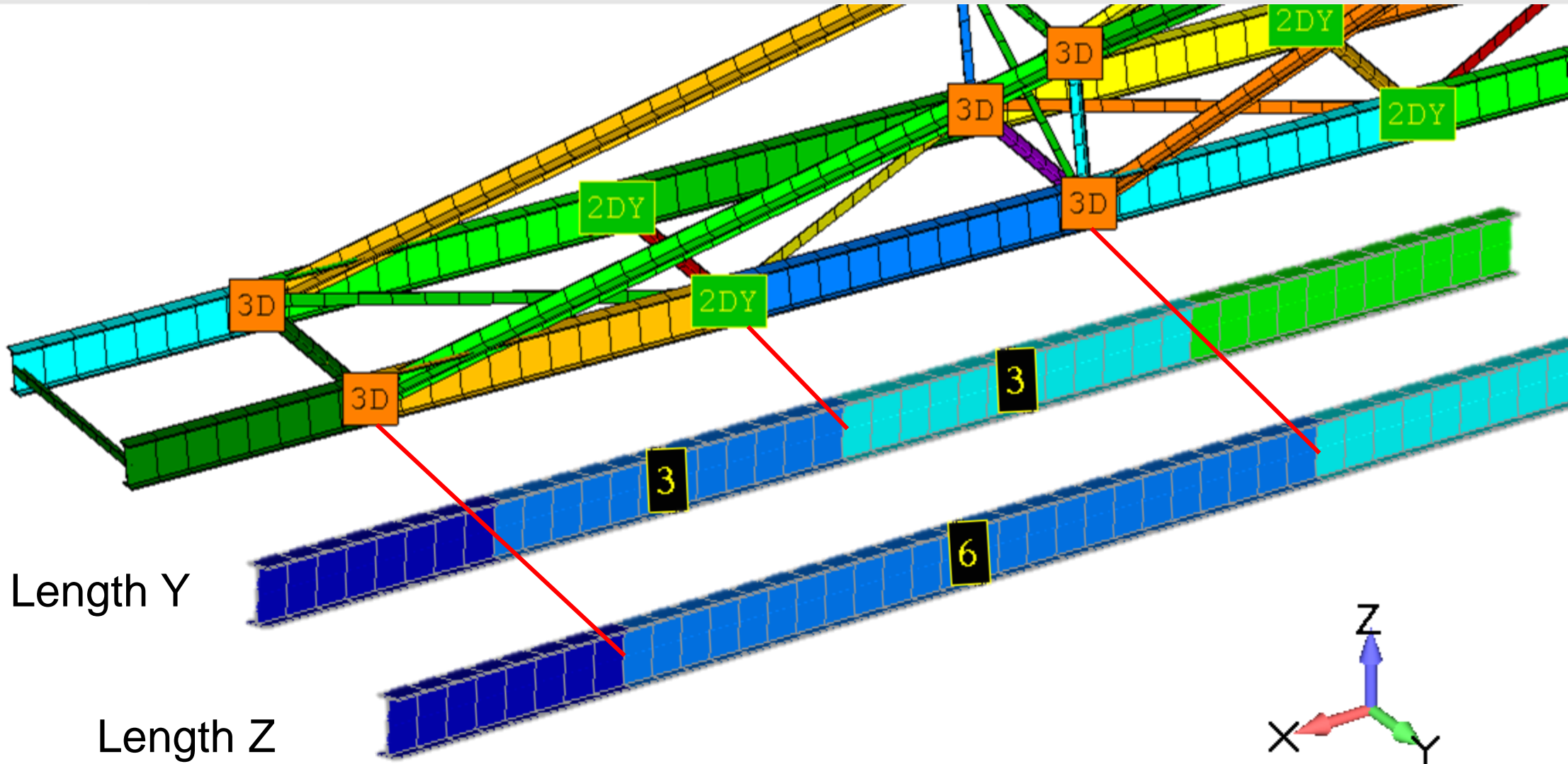
Recognition



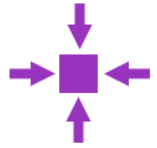
Checks



Reports



Software



Load Combination



Recognition

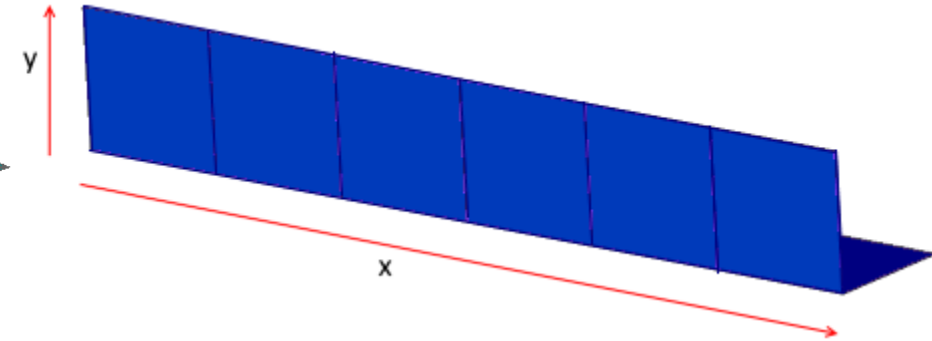
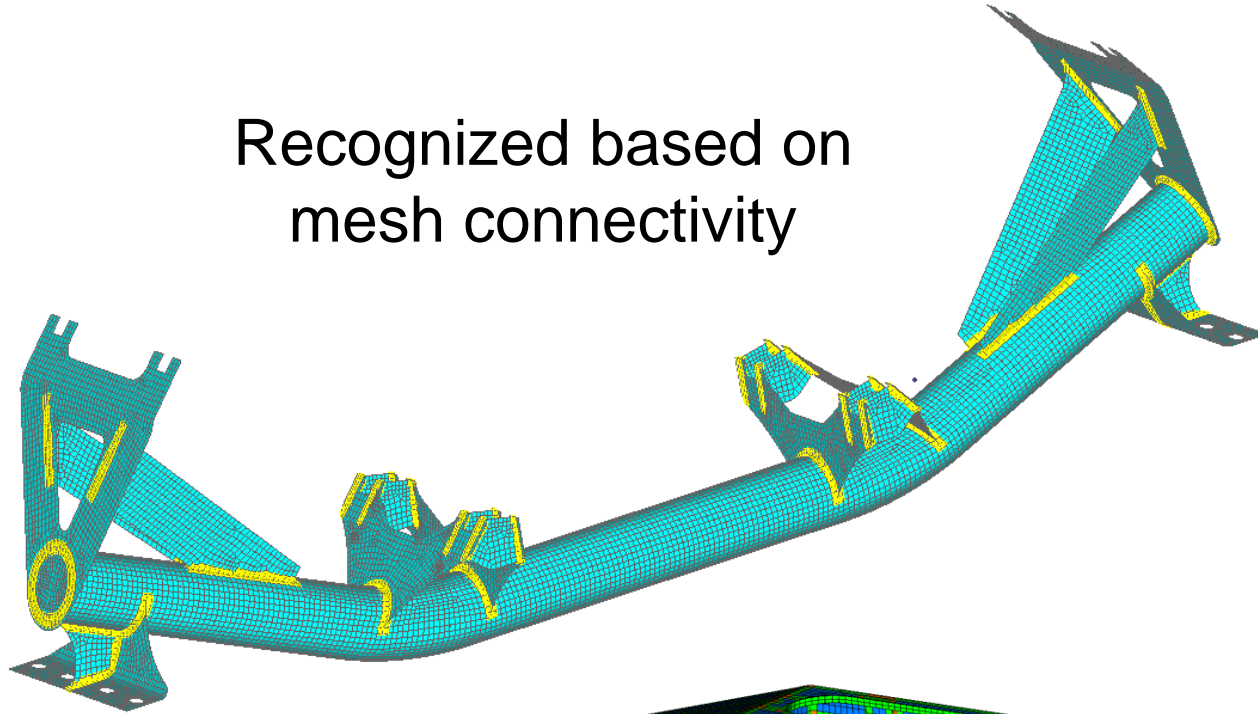


Checks

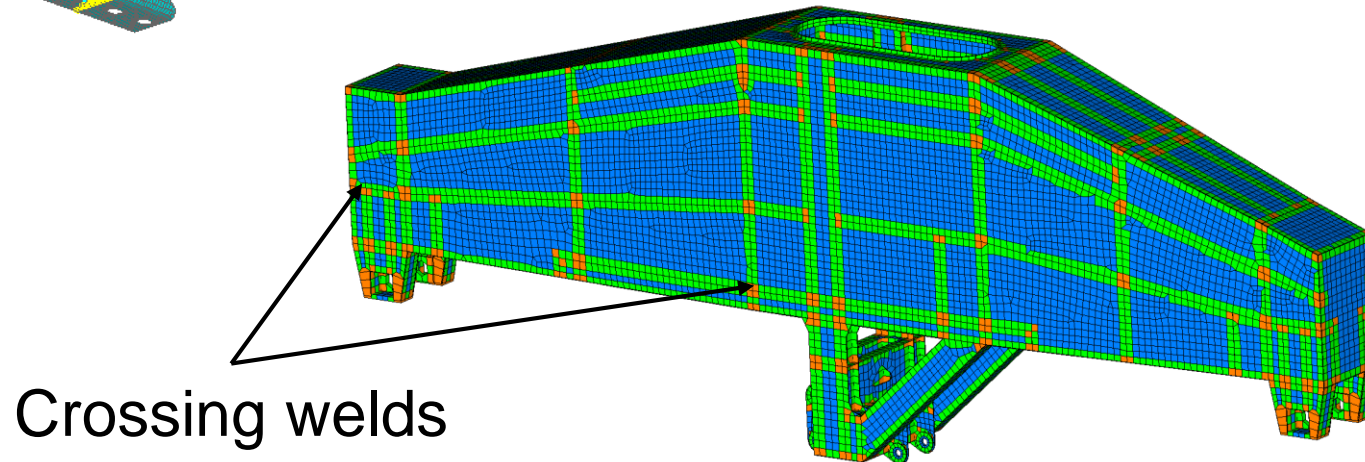


Reports

Recognized based on
mesh connectivity



Convert stresses into
weld direction:
 S_x – parallel to the weld
 S_y - perpendicular

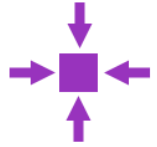


Crossing welds

Recognize chord, braces and gaps. Brace Classifications

Software

Recognize Brace, Chord and Gap



Load Combination



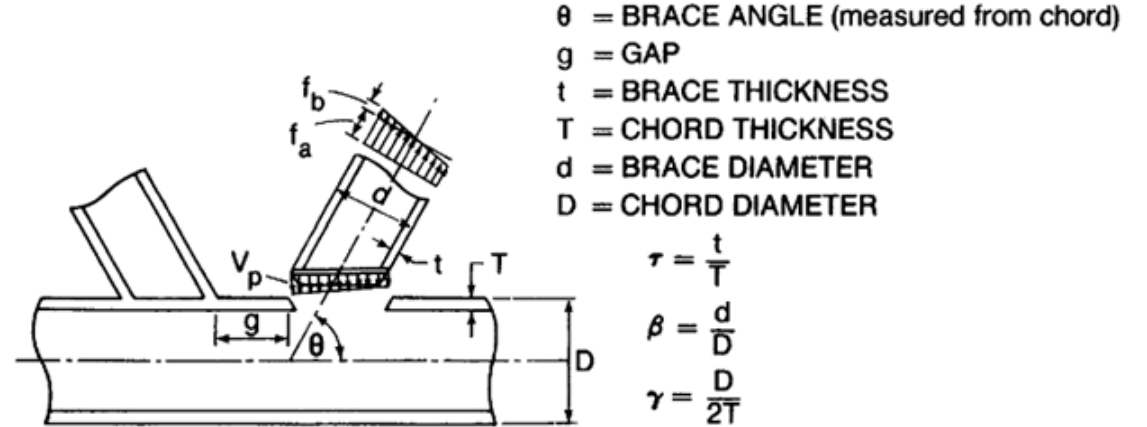
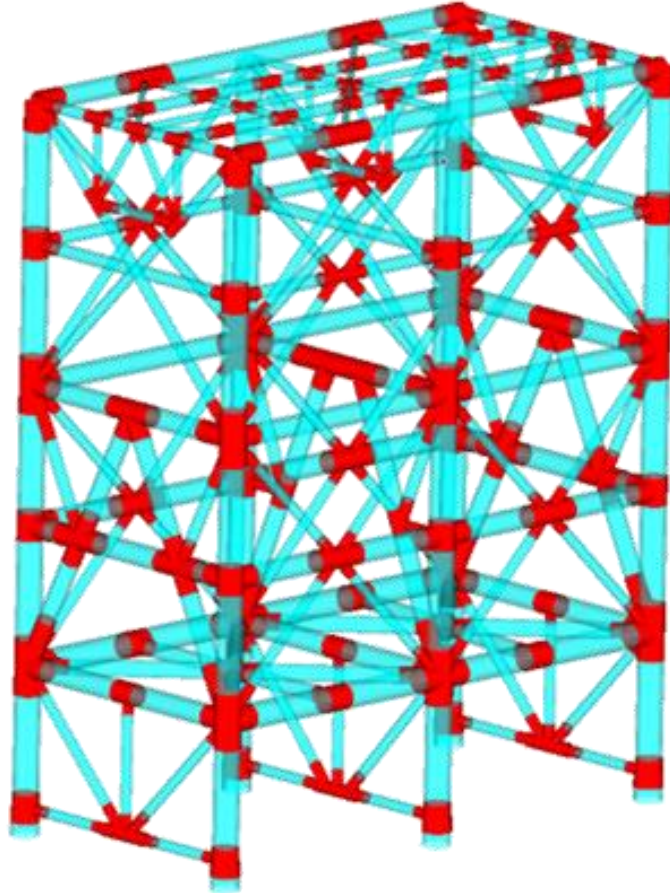
Recognition



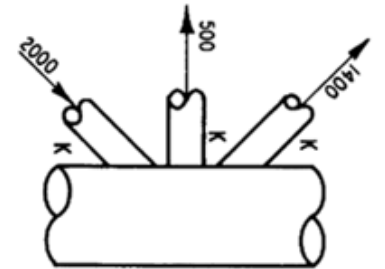
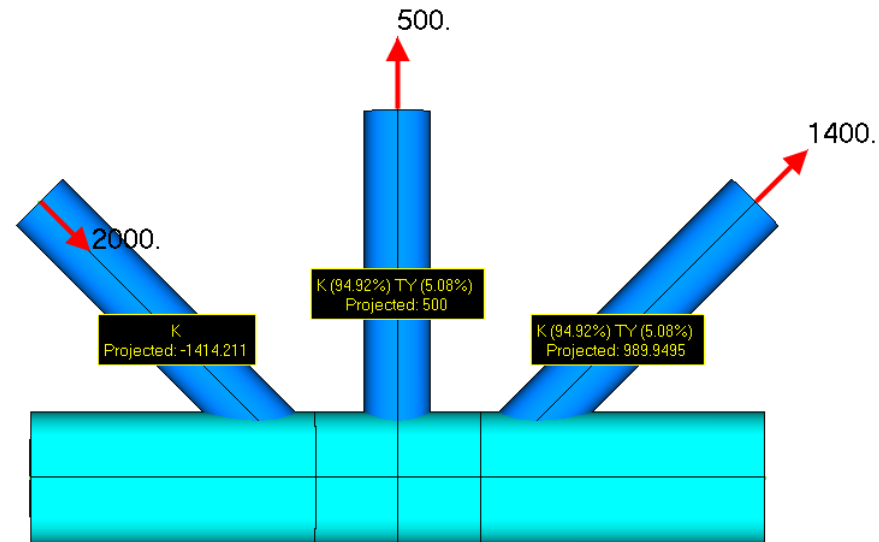
Checks



Reports



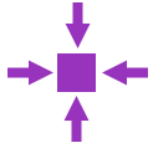
Brace classification (load dependent)



Connection ID	Brace Number	Joint Type
1	#1 (ElemID = K 27)	
	#2 (ElemID = K (94.92%) TY (5.08%) 13)	
	#3 (ElemID = K (94.92%) TY (5.08%) 19)	

Beam Buckling

Software



Load Combination



Recognition



Checks



Reports



AISC 360-10



Eurocode3



API RP 2A



ISO 19902



Norsok N004

Fatigue



FEM 1.001



DIN 15018



Eurocode3
EN13001

Plate Buckling



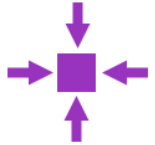
ABS 2004 &
2014



DNV 1995 &
2010

Checks are open

Software



Load Combination



Recognition



Checks



Reports

- Standards (1)
 - 1..ANSI / AISC 360-10
 - Constants (13)
 - Characteristics
 - Classifications (0)
 - Standard Tables (0)
 - Checks (17)
 - 1..Beam Characteristics
 - 2..Circular Tube**
 - 3..Rectangular Tube
 - 4..Section L
 - 5..Section T
 - 6..Section C
 - 7..Section I
 - 8..Bending F2 and F3
 - 9..Bending F4
 - 10..Bending F5
 - 11..Bending F6
 - 12..Help
 - 13..Axial
 - 14..Bending
 - 15..Shear
 - 16..Shear Tension Field Action
 - 17..Overall

Add Custom Check

ID: 2 Title: Circular Tube

Alias: Circle

Description: [Empty]

Show Parameter Description

Options

Calculate Results over Directions

Calculate Results over Points

Load Calculation: [Dropdown]

Selection: 2 Shapes

Parameters (4) / Replacements (10)

Replacement = Thickness (Thickness)
Description: Thickness for standard and nastran circular tube
`switch(shape, CircularTube, t, Nastran_Tube, (Dim1 - Dim2))`

Replacement = Diameter (Diameter)
`2 * r`

Replacement = lambda (Width to Thickness Ratio)
Description: Table B4.1a case 9
`Diameter / Thickness`

Parameter = slender_type (Slender Type)
Description: Limit from table B4.1a case 9
`if(lambda < 0.11 * Young / Yield, nonslender, slender)`

Parameter = Q (Net Reduction Factor Q)
Description: For Axially loaded circular sections. Formula (E7-19). $Q = Q_a$
`if(0.11 * Young / Yield < lambda and lambda < 0.45 * Young / Yield, 0.038 * Young / (Yield * lambda) + 2 / 3, 1)`

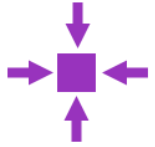
Replacement = Sx (Sx)
Description: Elastic Section Modulus
`PI * (Pow(Diameter, 4) - pow(Diameter - 2 * Thickness, 4)) / (32 * Diameter)`

Replacement = Zx (Zx)
Description: Plastic Section Modulus
`(Pow(Diameter, 3) - Pow(Diameter - 2 * Thickness, 3)) / 6`

Buttons: Clear results, Debug, C, P, OK, Cancel

Formulas can be preview/modified in editor (and included into report)

Software



Load Combination



Recognition

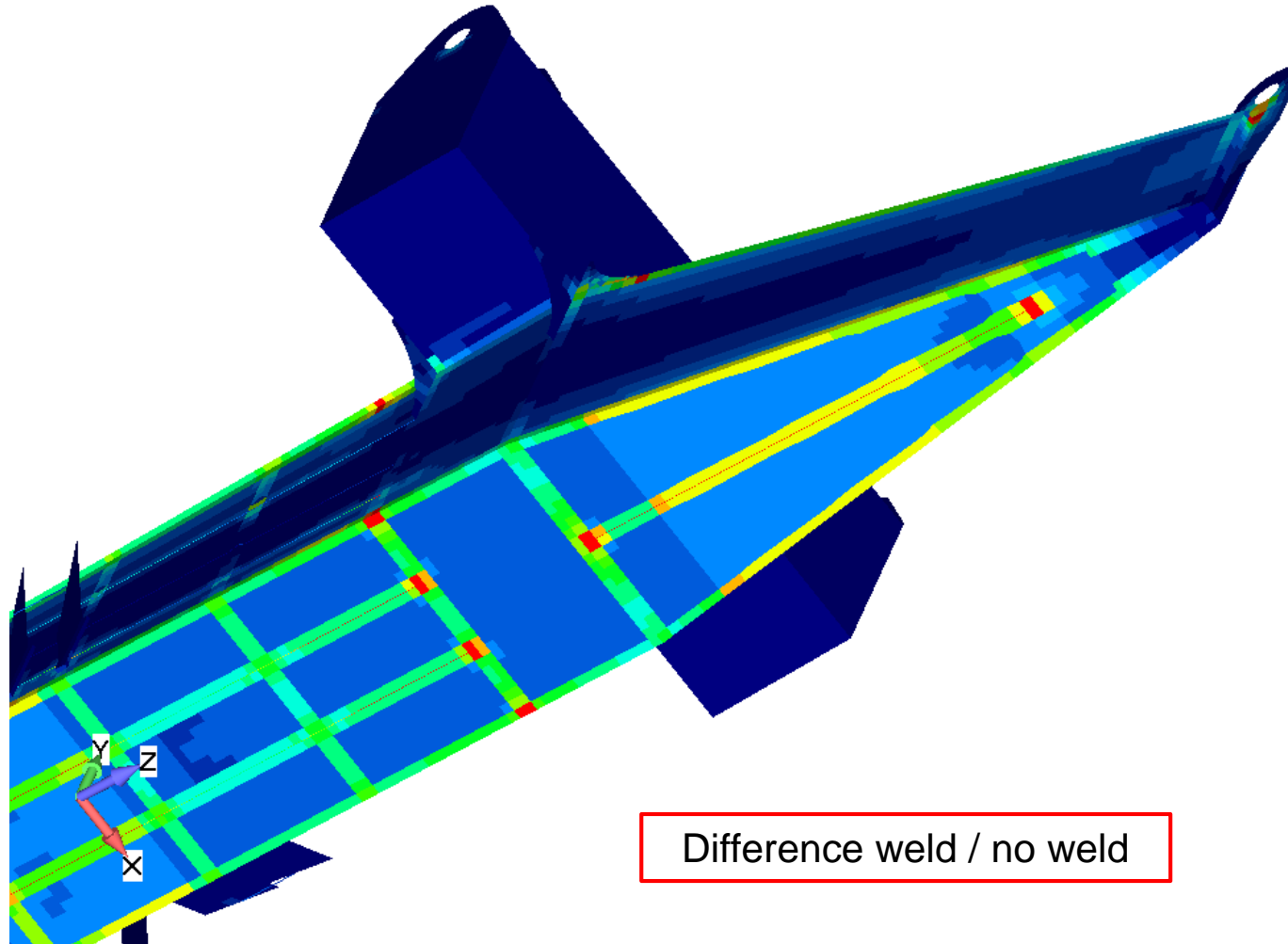


Checks



Reports

Fatigue check according to Eurocode 3 / EN13001 / FEM 1.001



Difference weld / no weld

Table D.3 — Welded members - (4)

Detail No.	$\Delta\sigma_c$ $\Delta\tau_c$ N/mm ²	Constructional detail
3.7	m = 3	Normal stress in weld direction
		180 Continuous weld, quality level B
		140 Continuous weld, quality level C
80 Intermittent weld, quality level C		

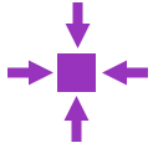
FAT class parallel to the weld

3.28	m = 3	Continuous component to which parts are welded transversally
		112 Double fillet weld, quality level B*
		100 Double fillet weld, quality level B
		90 Double fillet weld, quality level C
		71 Single fillet weld, quality level B, C
71		Partial penetration V-weld on remaining backing, quality level B, C

FAT class perpendicular to the weld

Plate Buckling

Software



Load Combination



Recognition



Checks



Reports

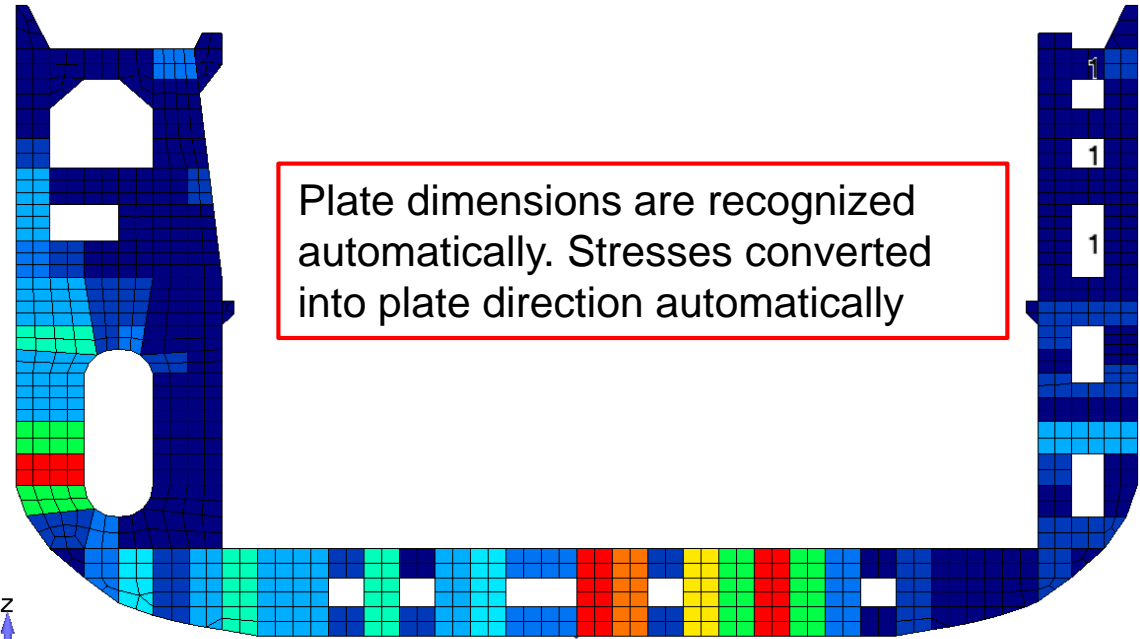
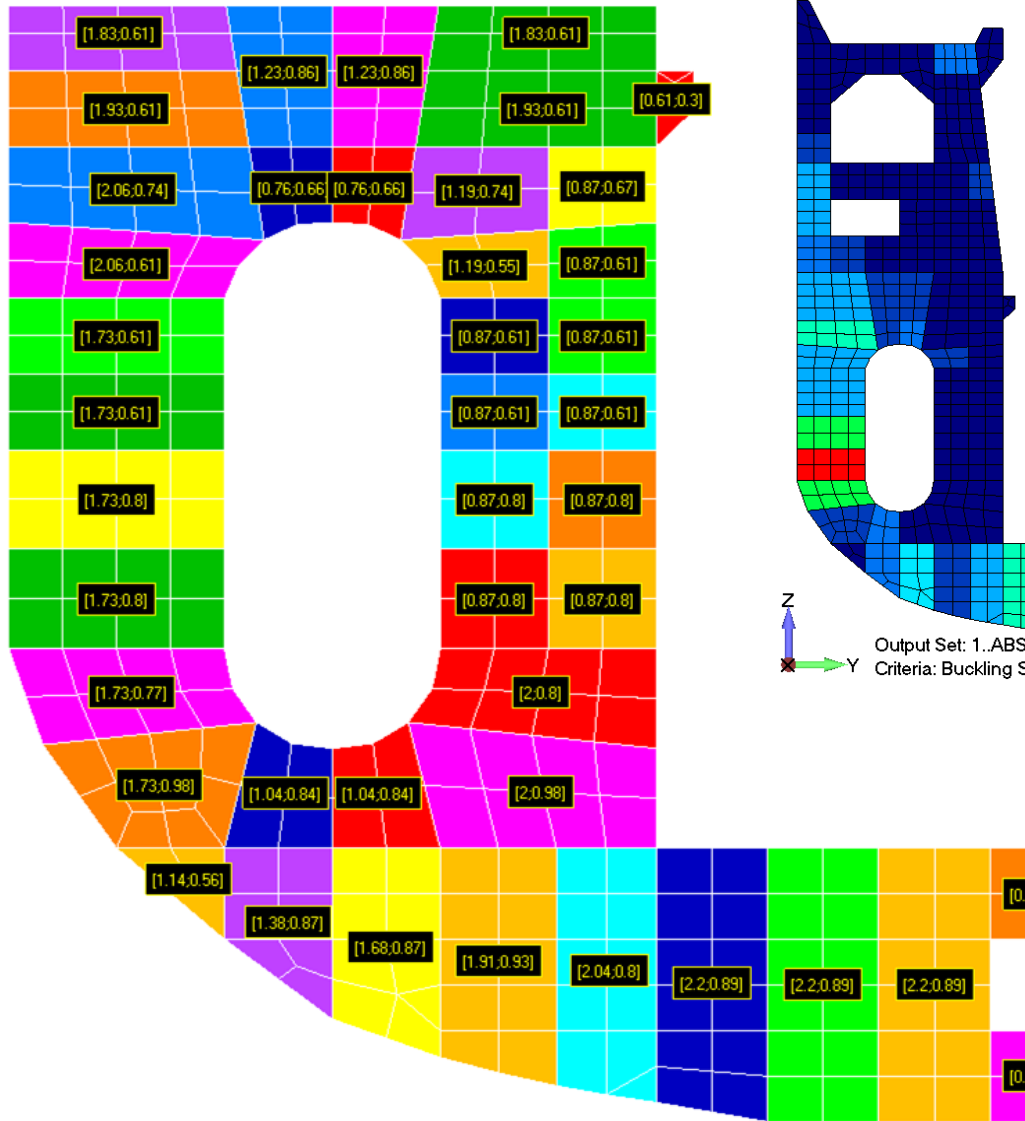
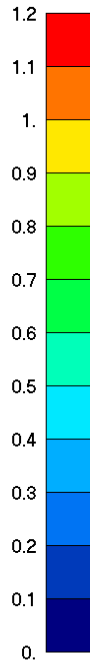


Plate dimensions are recognized automatically. Stresses converted into plate direction automatically



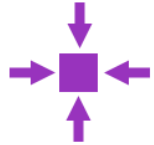
Output Set: 1..ABS Plate Buckling 1
Criteria: Buckling State Limit for 6..Output Set '10..Ballast+crane_outside': 10

Plate Buckling Table

Select Load: 6..Output Set '10..Ballast+crane_outside'

Panel Name	Critical Sx	Critical Sy	Critical Txy	Buckling State	Ultimate	Ultimate	Ultimate	Ultimate Strength
57..Section X 57 (X = 39.76)	2.17e08	2.16e08	1.26e08	1.60	2.18e08	2.18e08	1.26e08	0.64
1..Plate 1 (Y = -8.5; Z = 1.12)	1.77e08	1.04e08	1.17e08	0.55	1.96e08	1.07e08	1.19e08	0.51
2..Plate 2 (Y = 13.73; Z = 4.2)	1.45e08	1.46e08	1.15e08	0.05	1.64e08	1.59e08	1.20e08	0.05
3..Plate 3 (Y = 13.66; Z = 3.4)	1.78e08	1.76e08	1.20e08	0.06	1.97e08	1.86e08	1.23e08	0.05
4..Plate 4 (Y = -0.89; Z = 0.37)	1.66e08	8.14e07	1.14e08	0.29	1.82e08	9.88e07	1.18e08	0.18
5..Plate 5 (Y = 0.45; Z = 1.1)	1.24e08	4.63e07	1.06e08	1.60	1.52e08	8.17e07	1.11e08	0.53
6..Plate 6 (Y = -13.72; Z = 13.68)	1.54e08	1.41e08	1.16e08	0.02	1.71e08	1.53e08	1.20e08	0.02

Software



Load Combination



Recognition



Checks



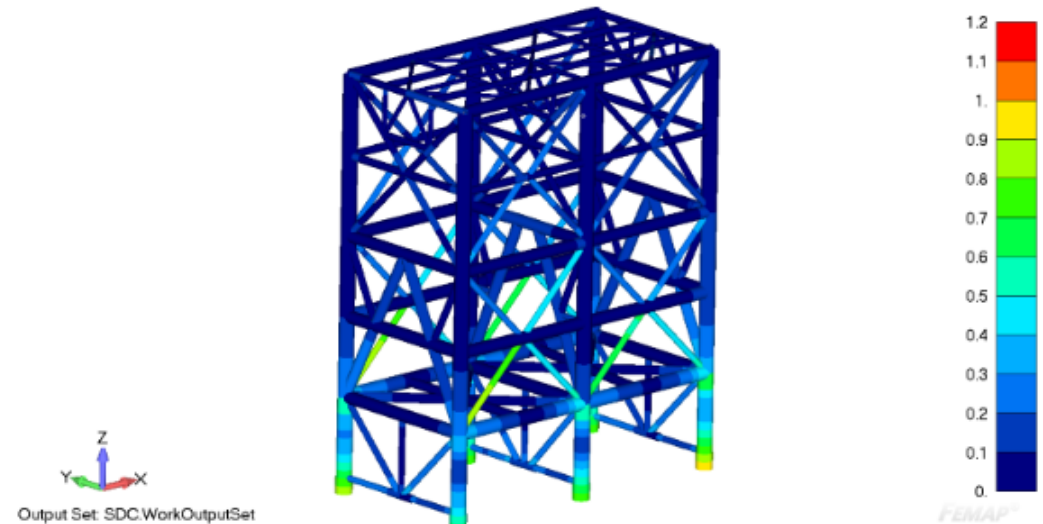
Reports

- [-] S Standards (1)
 - [-] S 1..ISO 19902 (1st, Dec 2007)
 - + π Constants (14)
 - + unit Characteristics
 - + Classifications (0)
 - + Standard Tables (0)
 - + [x] Checks (9)
 - [x] 1..Dimensions
 - [x] 2..Limits
 - [x] 3..Axial Stress Check
 - [x] 4..Bending Stress Check
 - [x] 5..Shear Stress Check
 - [x] 6..Hydrostatic
 - [x] 7..Axial and Bending Check
 - [x] 8..Overall Check
 - [x] 9..Joint Check ISO

All (LG1, 2 Shapes)

Standard	2..ISO 19902 (1st, Dec 2007)		Check Selection	7..Overall Check 2 Shapes		
Load Group	1..Envelop					
Extreme	Absolute Axial Um	Absolute Bending Um	Absolute Shear Um	Absolute Shear Torsional Um	Absolute Axial and Bending Um	Overall Utilization Factor
Minimum						
Value	0.00	0.00	0.00	0.00	0.00	0.00
Element ID	514	1493	1338	514	1493	514
Load	LS2	LS2	LS2	LS2	LS2	LS2
Maximum						
Value	0.70	0.66	0.21	0.06	0.92	0.92
Element ID	930	2409	2409	760	981	981
Load	LS2	LS2	LS2	LS2	LS2	LS2
Absolute						
Value	0.70	0.66	0.21	0.06	0.92	0.92
Element ID	930	2409	2409	760	981	981
Load	LS2	LS2	LS2	LS2	LS2	LS2

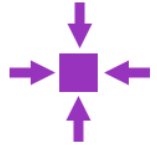
Absolute Overall Utilization Factor (LG1, 2 Shapes, 1..Default View)



Output Set: SDC.WorkOutputSet
Criteria: Overall Utilization Factor, All, Total

Check	7..Overall Check	Point Parameter View	Total
Load Group	1..Envelop		Absolute Overall Utilization Factor
Selection	2 Shapes		1..Default View

Software



Load Combination



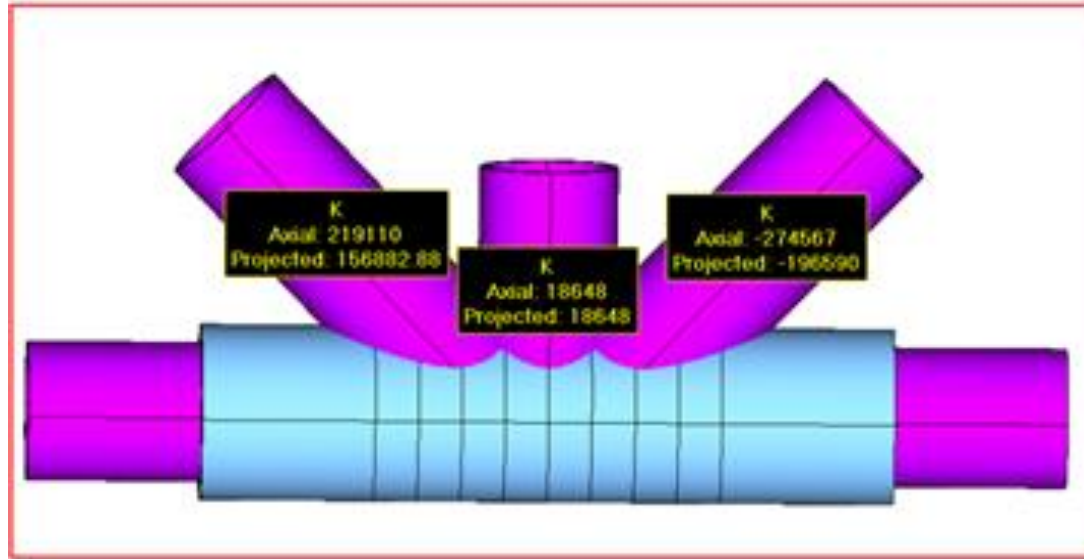
Recognition



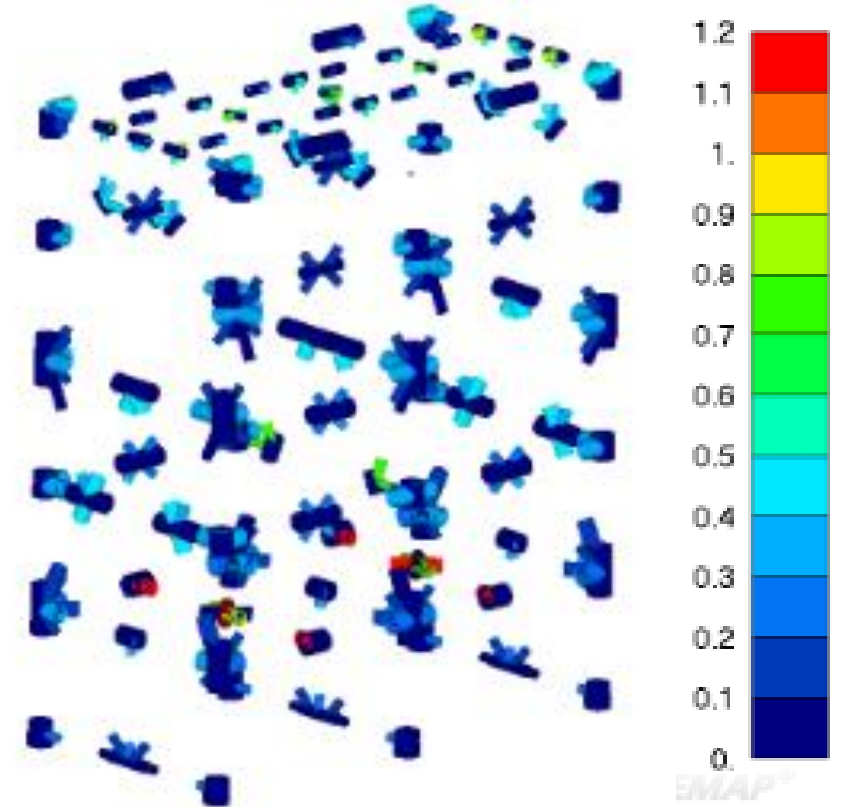
Checks



Reports



Brace Classification
(depends on loading)

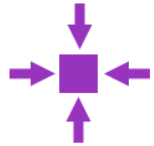


Check	8..Joint Check	Load Set	2..All loads combination
Connections	144	View	1..Default View
Parameter	Overall Utilization Factor		

Joint Check according to API RP 2A, ISO 19902 and Norsok N004 standards

Custom check: Rivet and bolt check example

Software



Load Combination



Recognition



Checks



Reports

✓ Add Custom Check

ID: 1 Title: Unity Check

Description:

Use check results in other checks (Alias): check0

Options

Calculate Results over Directions

Calculate Results over Points

Load Calculation: All Loads

Selection: All Entities

Parameters (3)

```

Parameter = F_shear_a (Allowable shear)
Description: Allowable shear force
All: Min( F_Prestress, F_Prestress - AbsMax( Faxial[Top], Faxial[Bot])) * mu

Parameter = F_shear (Shear force)
All: Sqrt(Pow(FShear1[Top],2)+ Pow( FShear2[Top],2))

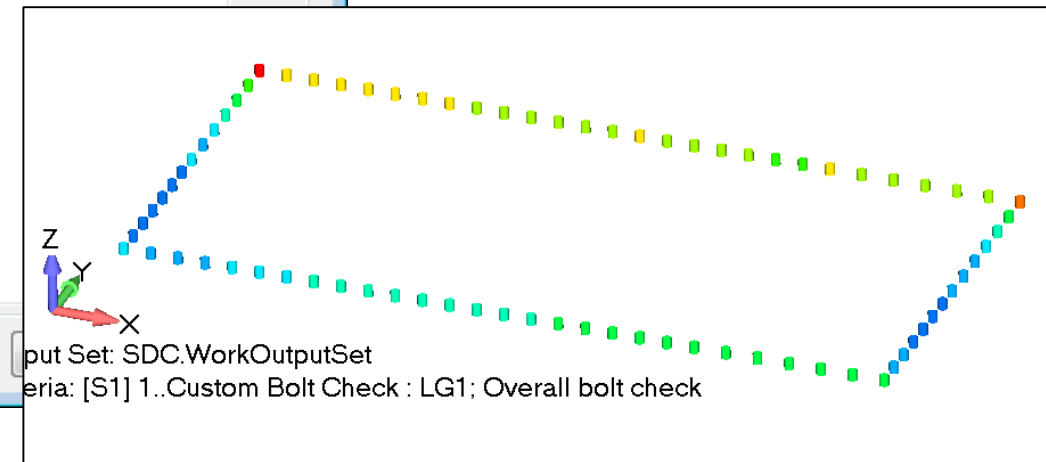
Parameter = Uf_shear (Bolt shear force check)
All: F_shear / (F_shear_a / SafetyFactor)

Parameter = Uf_axial (Axial bolt force check)
All: AbsMax(Faxial[Top], Faxial[Bot]) / ((0.7 * F_prestress) / SafetyFactor)

Parameter = Uf_total (Overall bolt check)
All: absmax(abs(Uf_shear), abs(Uf_axial))
        
```

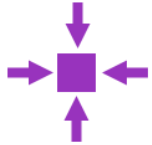
Clear results

	Extreme	Allowable shear	Shear force	Bolt shear force check	Axial bolt force check	Overall bolt check
Minimum						
Value		21.5e+3	0.1e+3	0.00	-0.87	0.01
Element ID		86503	79922	79922	86503	79932
Load		LS4	LS5	LS5	LS5	LS5
Maximum						
Value		48.0e+3	34.2e+3	1.15	0.87	1.15
Element ID		79508	86567	86543	86503	86543
Load		LS8	LS5	LS4	LS4	LS4
Absolute						
Value		48.0e+3	34.2e+3	1.15	0.87	1.15
Element ID		79508	86567	86543	86503	86543
Load		LS8	LS5	LS4	LS4	LS4



Reports in Microsoft Word and Power Point

Software



Load Combination



Recognition



Checks



Reports

1..Static calculation results

Individual Loads Content

Title	FEM Load/Output Set	Constraint	Category
1..ldc1 L-slide R-fix	2..ldc1	1..L-slide R-fix	-
2..ldc2 L-slide R-fix	3..ldc2	1..L-slide R-fix	-
3..ldc3 L-slide R-fix	4..ldc3	1..L-slide R-fix	-
5..ldc4 L-slide R-fix	5..ldc4	1..L-slide R-fix	-

1..Stress unity check

General Information

Property	Value
Category	Elemental Custom Check
Job	1..Static calculation results
Selection	All Entities
Loads count	3
Parameter Name	Unity
Alias	Unity
Description	Slyield

All
Load Set '6..ULS_EC_T', 13..Isometric (check), All Entities, Total, Equivalent, Unity

Stress (All Entities)

Extreme	X	Y	Z	XY	YZ	ZX	Equivalent
Minimum	-87.06e+6			0.00e+6			0.00e+6
Maximum	70.61e+6			0.00e+6			87.06e+6
Absolute	-87.06e+6			0.00e+6			87.06e+6

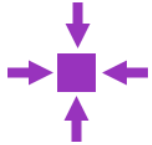
Displacement (All Entities)

Extreme	Ux	Uy	Uz	Usum	Rx	Ry	Rz	Rsum
Minimum	-0.05	-0.01	-0.08	0.00	0.00	0.00	0.00	0.00
Maximum	0.00	0.01	0.00	0.08	0.00	0.00	0.00	0.00
Absolute	-0.05	0.01	-0.08	0.08	0.00	0.00	0.00	0.00

Complete reports

Presentations

Software



Load Combination



Recognition



Checks

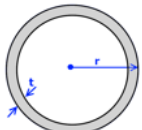
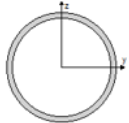


Reports

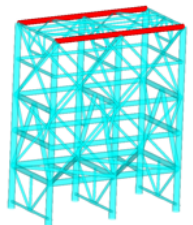
Page 3 of 4

3..380x20

Property	Value
Elements	64
Type	Beam
Material	1..AISI 4340 Steel
Mass	3551.3
Gravity Center	[2.50; 5.00; 0.00]
Area	0.02
I1	3.676e-04
I2	3.676e-04
I12	0
Torsion Constant	7.350e-04
Y Shear Area	0.01
Z Shear Area	0.01
Nonstructural Mass	0
Perimeter	1.19
Warping Constant	0
Y Neutral Axis Offset A	0
Z Neutral Axis Offset A	0
Y Neutral Axis Offset B	0
Z Neutral Axis Offset B	0

Geometry Property	Value	Points Of Interest	Value
Height	0.38	Point 1	[0.00; -0.19]
Width	0.38	Point 2	[0.19; 0.00]
r	0.19	Point 3	[0.00; 0.19]
t	0.02	Point 4	[-0.19; 0.00]




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Property

Page 3 of 60

5..Bottom frame. Stainless steel Grade 304

Property	Value
Elements	10716
Mass	174.40
Gravity Center	[0.031; 0.126; 0.394]
Young Modulus	1.93e+11
Shear Modulus	0
Poisson Ratio	0.305
Shear	0
Mass Density	11032.200
Tensile Strength	515.00e+6
Yield Stress	205.00e+6



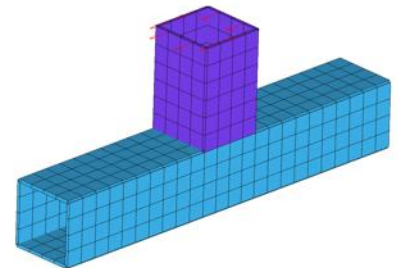
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Material

Page 3 of 3

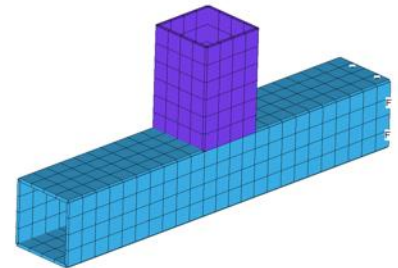
2..Top_Edge_Lateral

Definition	Load Type	Applied On	Values
1..Fz	Force	4 curve(s)	(0;0;100000) Phase = 0



1..Fixed

Definition	Count	DOF
1..Fixed	4 curve(s)	Tx Ty Tz Rx Ry Rz

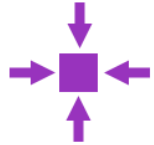


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Boundary conditions

Full calculation report

Software



Load Combination



Recognition



Checks



Reports

5..Bottom frame. Stainless

Property

- Elements
- Mass
- Gravity Center
- Young Modulus
- Shear Modulus
- Poisson Ratio
- Shear
- Mass Density
- Tensile Strength
- Yield Stress

Load Set '2..Seismic X+, Z+'
Seismic in X+ and Z+ direction, with Gravity

Title	Count	Items
2..Seismic X+, Z+	3	1..Gravity [1] 2..Seismic X [1] 4..Seismic Z [1]

Sum of Reaction Forces

Entity ID	Fx	Fy	Fz	Fsum	Mx	My	Mz	Msum
LS2..Seismic X+, Z+	-8419.47	0.00	5421.29	10013.88	0.00	0.00	0.00	0.00

Displacement Extreme (All Entities)

Load Set	Extreme	Ux	Uy	Uz	Usum	Rx	Ry	Rz	Rsum
2..Seismic X+, Z+	Extreme	0.00e-3	-0.59e-3	-0.47e-3	0.00e-3	-1.94e-3	-2.68e-3	-1.36e-3	0.01e-3
	Minimum	1.36e-3	0.44e-3	0.13e-3	1.37e-3	1.49e-3	2.52e-3	2.22e-3	3.18e-3
	Maximum	1.36e-3	-0.59e-3	-0.47e-3	1.37e-3	-1.94e-3	-2.68e-3	2.22e-3	3.18e-3
	Absolute	1.36e-3	-0.59e-3	-0.47e-3	1.37e-3	-1.94e-3	-2.68e-3	2.22e-3	3.18e-3

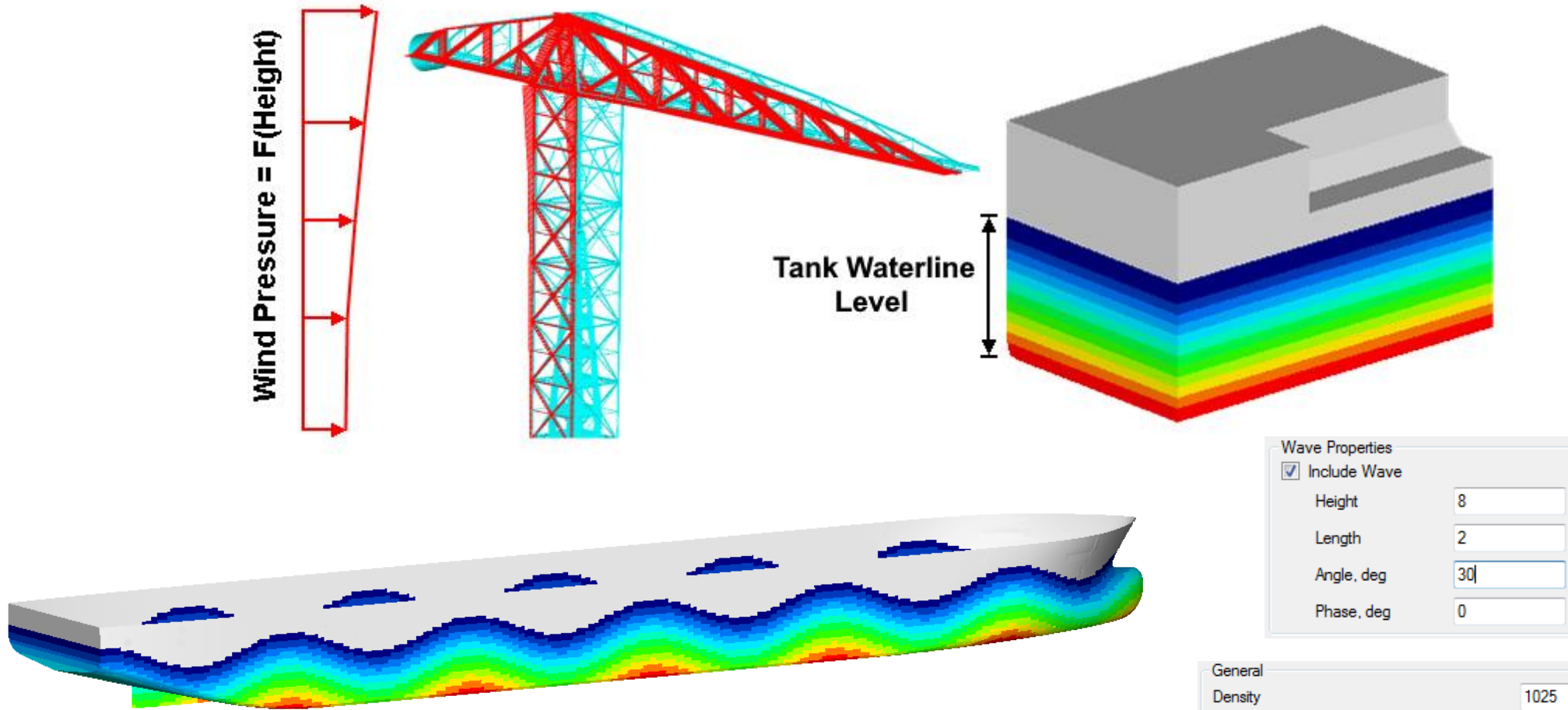
Unit system: Displacements - meter.

Usm Displacement (All Entities, 1..Default View)

Output Set: Load Set 2..Seismic X+, Z+
Deformed(0.0014): Absolute Usum
Criteria: Absolute Usum

Load Set Selection	Parameter View	Displacement Usum
2..Seismic X+, Z+	All Entities	1..Default View

Wind and buoyancy loads



Buoyancy (water level calculation) including wave parameters

List maximum load per component

Automatically Reduce relevant load sets to calculate

LoadTableForm

Load Group: 7..All LS

Selection	Id	Value	Load
Component '6..Plate 23 (X = 3026.31; Y = 1226.42; Z = -38.33)'	4053	27.81	Load Set 24
Component '7..Plate 24 (X = 2207.79; Y = 1627.47; Z = 1.94)'	5044	12.98	Load Set 24
Component '8..Plate 25 (X = 1199.65; Y = 1619.51; Z = 27.01)'	5220	12.26	Load Set 24
Component '9..Plate 26 (X = 3136.9; Y = 1703.63; Z = -9.16)'	4472	11.68	Load Set 11
Component '10..Plate 27 (X = 2358.38; Y = 2085.09; Z = 29.09)'	5526	9.85	Load Set 13
Component '11..Plate 30 (X = 1380.11; Y = 2032.57; Z = 50.45)'	5681	10.97	Load Set 13
Component '12..Plate 31 (X = 3244.42; Y = 2167.39; Z = 19.17)'	4911	8.43	Load Set 13
Component '13..Plate 32 (X = 2504.7; Y = 2529.83; Z = 55.49)'	6047	10.03	Load Set 11
Component '15..Plate 35 (X = 3719.21; Y = 976.3; Z = -83.3)'	1755	11.08	Load Set 14
Component '16..Plate 36 (X = 1571.37; Y = 2470.28; Z = 75.28)'	6182	10.32	Load Set 14
Component '17..Plate 37 (X = 3918.93; Y = 1192.33; Z = -67.47)'	1722	20.17	Load Set 14
Component '18..Plate 38 (X = 3351.9; Y = 2631.16; Z = 47.51)'	5426	8.14	Load Set 16
Component '19..Plate 39 (X = 2651.04; Y = 2974.56; Z = 81.88)'	6498	9.98	Load Set 16
Component '20..Plate 40 (X = 3998.3; Y = 1646.15; Z = -37.8)'	2058	18.94	Load Set 16
Component '21..Plate 41 (X = 1757.21; Y = 2895.68; Z = 99.42)'	6627	10.39	Load Set 16
Component '22..Plate 42 (X = 3459.37; Y = 3094.93; Z = 75.82)'	6011	7.95	Load Set 20

Fill

Load Group '1..Overall'

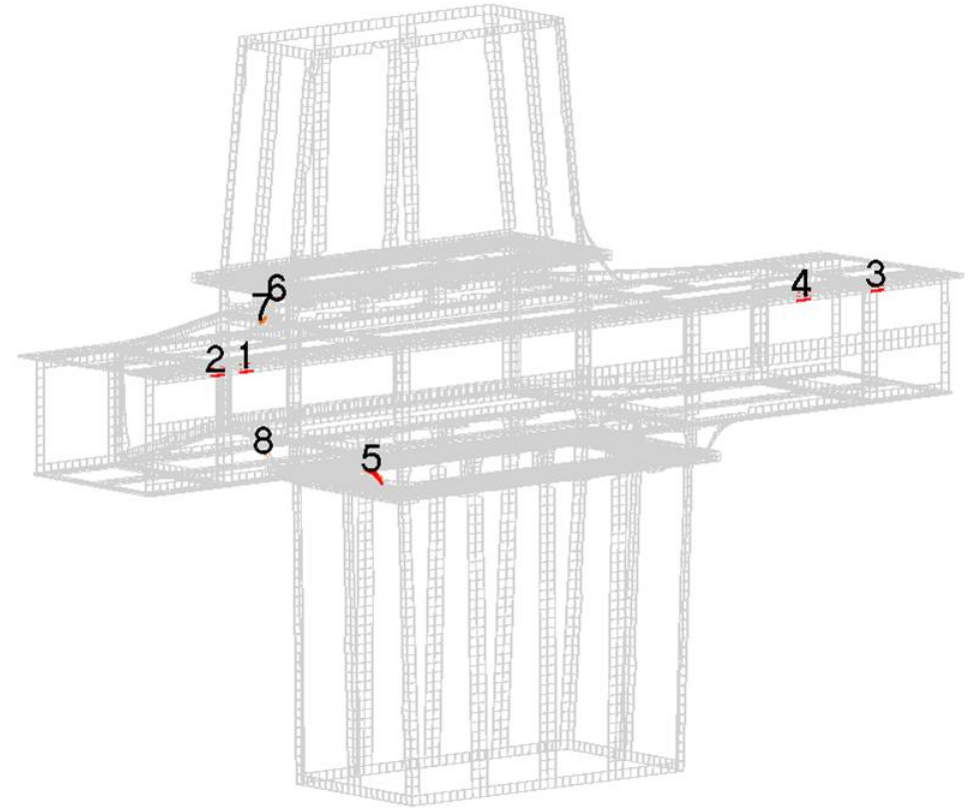
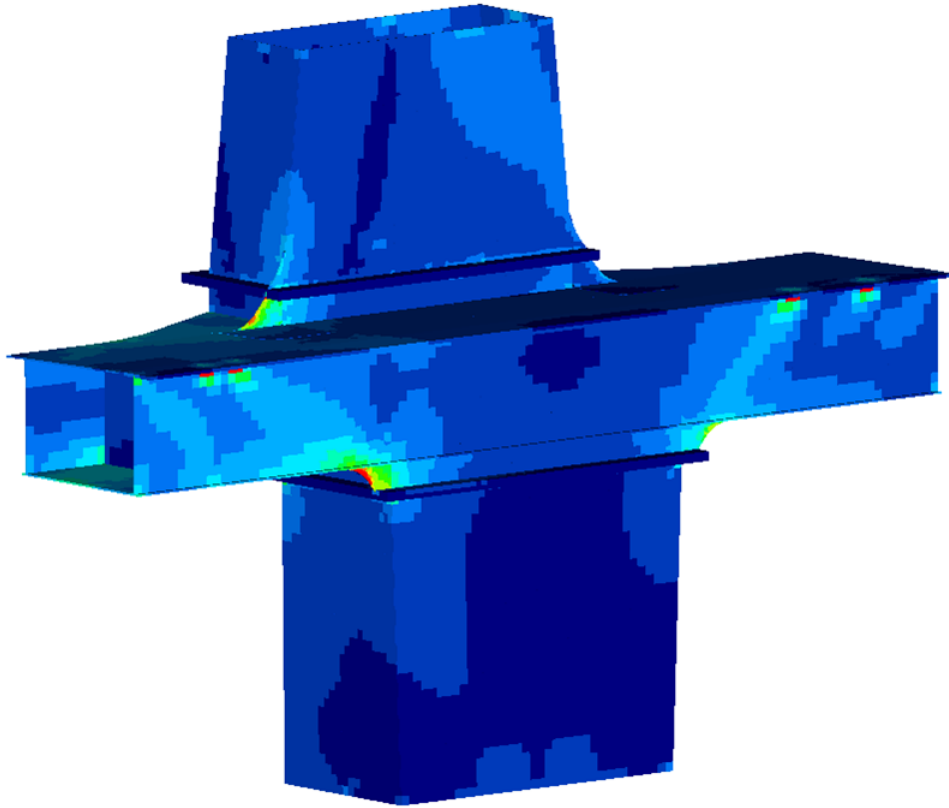
Title	Count	Items
1..Overall Safety Factor = 1	132	Load Set '1..LC1s_Tip load.1' [1] Load Set '2..LC1s_Tip load.2' [1] Load Set '3..LC1s_Tip load.3' [1] Load Set '4..LC1s_Tip load.4' [1] Load Set '5..LC1s_Middle Bridge.1' [1] Load Set '6..LC1s_Middle Bridge.2' [1] Load Set '7..LC1s_Middle Bridge.3' [1] Load Set '8..LC1s_Middle Bridge.4' [1] Load Set '129..LC2c_storm1' [1] Load Set '130..LC2c_storm2' [1] Load Set '131..LC2c_storm3' [1] Load Set '132..LC2c_storm4' [1]

↓ From 132 to 9 load cases

Load Group '2..Governing Loads (LG1..Overall)'

Title	Count	Items
2..Governing Loads (LG1..Overall) Safety Factor = 1	9	Load Set '2..LC1s_Tip load.2' [1] Load Set '1..LC1s_Tip load.1' [1] Load Set '4..LC1s_Tip load.4' [1] Load Set '5..LC1s_Middle Bridge.1' [1] Load Set '3..LC1s_Tip load.3' [1] Load Set '12..LC1s_Backside.4' [1] Load Set '11..LC1s_Backside.3' [1] Load Set '6..LC1s_Middle Bridge.2' [1] Load Set '8..LC1s_Middle Bridge.4' [1]

Peak finder (including automatic report)

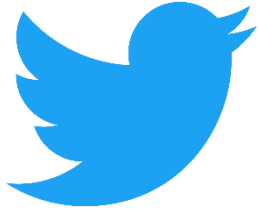


Never miss a hotspot!

Zone	Value	Zone	Value
Zone 1 (Elements: 2)	1.45	Zone 5 (Elements: 15)	1.41
Zone 2 (Elements: 2)	1.44	Zone 6 (Elements: 1)	1.21
Zone 3 (Elements: 2)	1.43	Zone 7 (Elements: 3)	1.09
Zone 4 (Elements: 2)	1.42	Zone 8 (Elements: 1)	1.01



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