

 <p>GeniE V7.9-04</p>	<p>Report: 052400BZCZ00001_PRDE</p>	<p>Report: Annex C: Structural Checks – Monopile – Vertical Configuration – Tubular members Check</p>	<p>Date: 05/08/2019</p>
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# 1 Tubular Members Check : Frame Code Check

Description : Capacity Manager

## 1.1 Ver\_tubi.run(1) : Frame Code Check

Description : ISO19902 2007

General options

Code	ISO 19902
CapendIncluded	true
UseCommentaryA13	true
Resistance Factor, Tension	1.05
Resistance Factor, Compression	1.18
Resistance Factor, Bending	1.05
Resistance Factor, Shear	1.05
Resistance Factor, Pipe Exposed To External Pressure	1.25
Resistance Factor, Joint, Yield Stress	1.05
Resistance Factor, Joint	1.05
Resistance Factor, Joint, Brace utilization	1.17
Y-Joint Axial Force Factor C1	25
X-Joint Axial Force Factor C1	20
K-Joint Axial Force Factor C1	14
All Joints Moment Factor C1	25
Y-Joint Axial Force Factor C2	11
X-Joint Axial Force Factor C2	22
K-Joint Axial Force Factor C2	43
All Joints Moment Factor C2	43
Brace Utilization, Cut-off value	0
X-Joint in Tension, Qu formula	ISO 19902
Azimuthal Tolerance Angle	5
Ind. Brace Can Distance	false
Joint Geometric Limits	Not checked

General options

Code	EN 1993-1-1
GammaM0	1
GammaM1	1
Method1	true
NationalAnnex	Standard

### 1.1.1 Ver\_tubi.run(1) : Member Result Full

#### 1.1.1.1 Ver\_tubi.run(1) : EN199311 Member Result

Empty table - no objects of this type



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1.1.1.2 Ver\_tubi.run(1) : ISO 19902 Member Result

Ver\_tubi.run(1) : ISO 19902 Member Result

- Sorted by Member (Ascending)
- Then sorted by LoadCase (Ascending)

- Run : Ver\_tubi.run(1)
- Selected LoadCase per Member
- Selected SubCheck per Member
- All Positions along Member

Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
Bm153	LC1_HIGH	0.0	0.00	OK	0.00	(13.2-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	1e-05	1.5	0.03	345000	2.1e+08	101.051	0	1.08583e-18
	9.95094e-19	0	729.381	729.381	345000	0	300968	345000	2.52e+06
	0	2.17525e-17	0	0.003846	411395	1.4365e-17	0	0	0
	73920	73920	27.3	27.3	0	0	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	0.25	OK	0.02	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.019	0.006	0.000	0.000	0.000	0.000	0.000	0.000
	0.019	0.019	0.000	0.016	0.016	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.25	1.5	0.03	345000	2.1e+08	-654.97	0	7.87708e-18
	9.95094e-19	0	-4727.51	0	345000	4727.51	300968	345000	2.52e+06
	0	1.57802e-16	0	0.003846	411395	1.4365e-17	0	0	0
	73920	73920	27.3	27.3	1	1	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	0.32	OK	0.02	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.025	0.008	0.000	0.000	0.000	0.000	0.000	0.000
	0.025	0.025	0.000	0.022	0.022	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.322334	1.5	0.03	345000	2.1e+08	-873.724	0	9.84212e-18
	9.95094e-19	0	-6306.46	0	345000	6306.46	300968	345000	2.52e+06
	0	1.97168e-16	0	0.003846	411395	1.4365e-17	0	0	0
	73920	73920	27.3	27.3	1	1	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	0.32	OK	0.07	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.073	0.000	0.000	0.000	0.000	0.000	0.073	0.073	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.322354	1.5	0.03	345000	2.1e+08	3320.89	0	0.000191983
	5.98584e-06	0	23969.9	23969.9	345000	0	300968	345000	2.52e+06
	0	0.003846	0	0.003846	411395	8.64105e-05	0	0	0
	73920	73920	27.3	27.3	0	0	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	0.43	OK	0.07	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.066	0.000	0.000	0.000	0.000	0.000	0.066	0.066	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.432224	1.5	0.03	345000	2.1e+08	2988.62	0	0.000174028
	5.98584e-06	0	21571.6	21571.6	345000	0	300968	345000	2.52e+06
	0	0.00348632	0	0.003846	411395	8.64105e-05	0	0	0
	73920	73920	27.3	27.3	0	0	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	0.43	OK	0.07	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.067	0.000	0.000	0.000	0.000	0.000	0.067	0.067	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.432244	1.5	0.03	345000	2.1e+08	3048.03	0	0.000172949
	6.50356e-06	0	22000.4	22000.4	345000	0	300968	345000	2.52e+06
	0	0.0034647	0	0.003846	411395	9.38842e-05	0	0	0
	73920	73920	27.3	27.3	0	0	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	0.50	OK	0.06	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.062	0.000	0.000	0.000	0.000	0.000	0.062	0.062	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.5	1.5	0.03	345000	2.1e+08	2843.12	0	0.000160919
	6.50356e-06	0	20521.4	20521.4	345000	0	300968	345000	2.52e+06
	0	0.00322371	0	0.003846	411395	9.38842e-05	0	0	0
	73920	73920	27.3	27.3	0	0	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	0.75	OK	0.05	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.046	0.000	0.000	0.000	0.000	0.000	0.046	0.046	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.75	1.5	0.03	345000	2.1e+08	2087.07	0	0.000116532
	6.50356e-06	0	15064.3	15064.3	345000	0	300968	345000	2.52e+06
	0	0.0023345	0	0.003846	411395	9.38842e-05	0	0	0
	73920	73920	27.3	27.3	0	0	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153	LC1_HIGH	0.0	1.00	OK	0.03	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.029	0.000	0.000	0.000	0.000	0.000	0.029	0.029	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50
	0.03	0.99999	1.5	0.03	345000	2.1e+08	1331.05	0	7.21475e-05
	6.50356e-06	0	9607.41	9607.41	345000	0	300968	345000	2.52e+06
	0	0.00144533	0	0.003846	411395	9.38842e-05	0	0	0
	73920	73920	27.3	27.3	0	0	27.3	751483	751483
	0	0	0	345000	411395	300968			
Bm153_Inner	LC1_HIGH	0.0	0.00	OK	0.01	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.014	0.010	0.000	0.000	0.000	0.000	0.000	0.000
	0.014	0.014	0.000	0.008	0.008	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	1e-05	0.762	0.0254	265000	2.1e+08	-110.75	0	7.24039e-20
	1.22125e-19	0	-1884.21	0	265000	1884.21	161616	265000	4.2e+06
	0	6.91165e-18	0	0.00204091	348767	4.15547e-18	0	0	0
	167506	205333	27.3	27.3	1	1	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	0.25	OK	0.02	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)



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Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
	0.000	0.024	0.017	0.000	0.000	0.000	0.000	0.000	0.000
	0.024	0.024	0.000	0.015	0.015	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.25	0.762	0.0254	265000	2.1e+08	-193.202	0	9.05875e-19
	1.22125e-19	0	-3286.98	0	265000	3286.98	161616	265000	4.2e+06
	0	8.64746e-17	0	0.00204091	348767	4.15547e-18	0	0	0
	167506	205333	27.3	27.3	1	1	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	0.32	OK	0.03	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.027	0.020	0.000	0.000	0.000	0.000	0.000	0.000
	0.027	0.027	0.000	0.016	0.016	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.322334	0.762	0.0254	265000	2.1e+08	-217.06	0	1.14704e-18
	1.22125e-19	0	-3692.87	0	265000	3692.87	161616	265000	4.2e+06
	0	1.09496e-16	0	0.00204091	348767	4.15547e-18	0	0	0
	167506	205333	27.3	27.3	1	1	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	0.32	OK	0.09	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.091	0.000	0.000	0.000	0.000	0.000	0.091	0.091	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.322354	0.762	0.0254	265000	2.1e+08	1356.54	0	2.13798e-05
	1.24685e-06	0	23079	23079	265000	0	161616	265000	4.2e+06
	0	0.00204091	0	0.00204091	348767	4.24258e-05	0	0	0
	167506	205333	27.3	27.3	0	0	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	0.43	OK	0.09	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.089	0.000	0.000	0.000	0.000	0.000	0.089	0.089	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.432224	0.762	0.0254	265000	2.1e+08	1320.3	0	1.76399e-05
	1.24685e-06	0	22462.5	22462.5	265000	0	161616	265000	4.2e+06
	0	0.0016839	0	0.00204091	348767	4.24258e-05	0	0	0
	167506	205333	27.3	27.3	0	0	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	0.43	OK	0.07	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.069	0.000	0.000	0.000	0.000	0.000	0.069	0.069	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.432244	0.762	0.0254	265000	2.1e+08	1022.55	0	1.87152e-05
	7.29132e-07	0	17396.8	17396.8	265000	0	161616	265000	4.2e+06
	0	0.00178655	0	0.00204091	348767	2.48097e-05	0	0	0
	167506	205333	27.3	27.3	0	0	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	0.50	OK	0.07	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.067	0.000	0.000	0.000	0.000	0.000	0.067	0.067	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.5	0.762	0.0254	265000	2.1e+08	1000.2	0	1.73665e-05
	7.29132e-07	0	17016.6	17016.6	265000	0	161616	265000	4.2e+06
	0	0.0016578	0	0.00204091	348767	2.48097e-05	0	0	0
	167506	205333	27.3	27.3	0	0	27.3	188835	188835



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Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	0.75	OK	0.06	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.062	0.000	0.000	0.000	0.000	0.000	0.062	0.062	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.75	0.762	0.0254	265000	2.1e+08	917.749	0	1.23902e-05
	7.29132e-07	0	15613.8	15613.8	265000	0	161616	265000	4.2e+06
	0	0.00118277	0	0.00204091	348767	2.48097e-05	0	0	0
	167506	205333	27.3	27.3	0	0	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm153_Inner	LC1_HIGH	0.0	1.00	OK	0.06	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.056	0.000	0.000	0.000	0.000	0.000	0.056	0.056	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.99999	0.762	0.0254	265000	2.1e+08	835.296	0	7.41408e-06
	7.29132e-07	0	14211	14211	265000	0	161616	265000	4.2e+06
	0	0.000707746	0	0.00204091	348767	2.48097e-05	0	0	0
	167506	205333	27.3	27.3	0	0	27.3	188835	188835
	0	0	0	265000	348767	161616			
Bm155	LC1_HIGH	0.0	0.00	OK	0.03	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.028	0.000	0.000	0.000	0.000	0.000	0.028	0.028	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	37.5
	0.04	1e-05	1.5	0.04	345000	2.1e+08	1667.12	0	7.28758e-05
	6.00515e-06	0	9086.63	9086.63	345000	0	337756	345000	3.36e+06
	0	0.00111722	0	0.00111722	438020	6.54623e-05	0	0	0
	131413	131413	11	11	0	0	11	4.56747e+06	4.56747e+06
	0	0	0	345000	438020	337756			
Bm155	LC1_HIGH	0.0	0.18	OK	0.02	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.023	0.000	0.000	0.000	0.000	0.000	0.023	0.023	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	37.5
	0.04	0.181808	1.5	0.04	345000	2.1e+08	1373.75	0	6.08668e-05
	6.00515e-06	0	7487.65	7487.65	345000	0	337756	345000	3.36e+06
	0	0.00093312	0	0.00111722	438020	6.54623e-05	0	0	0
	131413	131413	11	11	0	0	11	4.56747e+06	4.56747e+06
	0	0	0	345000	438020	337756			
Bm155	LC1_HIGH	0.0	0.73	OK	0.01	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.007	0.000	0.000	0.000	0.000	0.000	0.007	0.007	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	83.3333
	0.03	0.727283	2.5	0.03	345000	2.1e+08	516.569	0	2.05075e-05
	6.59844e-06	0	2219.01	2219.01	345000	0	266193	339646	1.512e+06
	0	0.000144373	0	0.000513047	371630	5.66896e-05	0	0	0
	66064.8	66064.8	11	11	0	0	11	4.56747e+06	4.56747e+06
	0	0	0	345000	371630	332624			
Bm155	LC1_HIGH	0.0	1.00	OK	0.00	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	83.3333
	0.03	0.99999	2.5	0.03	345000	2.1e+08	-41.7956	0	7.13592e-07
	6.59844e-06	0	-179.54	0	345000	179.54	266193	339646	1.512e+06



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Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
	0	5.0237e-06	0	0.000513047	371630	5.66896e-05	0	0	0
	66064.8	66064.8	11	11	1	1	11	4.56747e+06	4.56747e+06
	0	0	0	345000	371630	332624			
Bm155_Inner	LC1_HIGH	0.0	0.00	OK	0.03	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.034	0.000	0.000	0.000	0.000	0.000	0.034	0.034	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	1e-05	0.762	0.0254	265000	2.1e+08	499.182	0	6.68298e-06
	1.22754e-06	0	8492.66	8492.66	265000	0	248215	265000	4.2e+06
	0	0.000637956	0	0.000637956	348767	4.17687e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm155_Inner	LC1_HIGH	0.0	0.18	OK	0.03	(13.2-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.032	0.000	0.000	0.000	0.000	0.000	0.032	0.032	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.181808	0.762	0.0254	265000	2.1e+08	475.022	0	4.22817e-06
	1.22754e-06	0	8081.62	8081.62	265000	0	248215	265000	4.2e+06
	0	0.00040362	0	0.000637956	348767	4.17687e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm155_Inner	LC1_HIGH	0.0	0.18	OK	0.02	(13.2-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.018	0.000	0.000	0.000	0.000	0.000	0.018	0.018	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.181828	0.762	0.0254	265000	2.1e+08	271.622	0	2.55318e-06
	3.79056e-07	0	4621.15	4621.15	265000	0	248215	265000	4.2e+06
	0	0.000243726	0	0.000637956	348767	1.28979e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm155_Inner	LC1_HIGH	0.0	0.25	OK	0.02	(13.2-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.018	0.000	0.000	0.000	0.000	0.000	0.018	0.018	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.25	0.762	0.0254	265000	2.1e+08	262.563	0	2.26893e-06
	3.79056e-07	0	4467.02	4467.02	265000	0	248215	265000	4.2e+06
	0	0.000216591	0	0.000637956	348767	1.28979e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm155_Inner	LC1_HIGH	0.0	0.50	OK	0.02	(13.2-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.015	0.000	0.000	0.000	0.000	0.000	0.015	0.015	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.5	0.762	0.0254	265000	2.1e+08	229.339	0	1.22652e-06
	3.79056e-07	0	3901.78	3901.78	265000	0	248215	265000	4.2e+06
	0	0.000117084	0	0.000637956	348767	1.28979e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm155_Inner	LC1_HIGH	0.0	0.73	OK	0.01	(13.2-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.013	0.000	0.000	0.000	0.000	0.000	0.013	0.013	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30



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Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
	0.0254	0.727263	0.762	0.0254	265000	2.1e+08	199.137	0	2.78926e-07
	3.79056e-07	0	3387.94	3387.94	265000	0	248215	265000	4.2e+06
	0	2.66262e-05	0	0.000637956	348767	1.28979e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm155_Inner	LC1_HIGH	0.0	0.73	OK	0.01	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.005	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.727283	0.762	0.0254	265000	2.1e+08	78.0589	0	1.18981e-06
	6.3425e-07	0	1328.03	1328.03	265000	0	248215	265000	4.2e+06
	0	0.000113579	0	0.000637956	348767	2.15812e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm155_Inner	LC1_HIGH	0.0	1.00	OK	0.00	(13.3-2)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.003	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.99999	0.762	0.0254	265000	2.1e+08	41.8174	0	-7.12796e-07
	6.3425e-07	0	711.446	711.446	265000	0	248215	265000	4.2e+06
	0	-6.80433e-05	0	0.000637956	348767	2.15812e-05	0	0	0
	167506	205333	11	11	0	0	11	1.16312e+06	1.16312e+06
	0	0	0	265000	348767	248215			
Bm161	LC1_HIGH	0.0	0.00	OK	0.00	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	1e-05	0.762	0.0254	265000	2.1e+08	-9.66502	0	-8.32255e-19
	7.23705e-19	0	-164.432	0	265000	164.432	264911	265000	4.2e+06
	0	-7.94468e-17	0	-7.94468e-17	348767	2.4625e-17	0	0	0
	265000	1.36603e+06	0.8	0.8	1	1	0.8	2.19902e+08	2.19902e+08
	0	0	0	265000	348767	264911			
Bm161	LC1_HIGH	0.0	0.25	OK	0.00	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.25	0.762	0.0254	265000	2.1e+08	-7.24884	0	-6.8752e-19
	7.23705e-19	0	-123.326	0	265000	123.326	264911	265000	4.2e+06
	0	-6.56305e-17	0	-7.94468e-17	348767	2.4625e-17	0	0	0
	265000	1.36603e+06	0.8	0.8	1	1	0.8	2.19902e+08	2.19902e+08
	0	0	0	265000	348767	264911			
Bm161	LC1_HIGH	0.0	0.50	OK	0.00	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.5	0.762	0.0254	265000	2.1e+08	-4.83256	0	-5.42779e-19
	7.23705e-19	0	-82.2171	0	265000	82.2171	264911	265000	4.2e+06
	0	-5.18135e-17	0	-7.94468e-17	348767	2.4625e-17	0	0	0
	265000	1.36603e+06	0.8	0.8	1	1	0.8	2.19902e+08	2.19902e+08
	0	0	0	265000	348767	264911			
Bm161	LC1_HIGH	0.0	0.75	OK	0.00	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.75	0.762	0.0254	265000	2.1e+08	-2.41628	0	-3.98038e-19
	7.23705e-19	0	-41.1086	0	265000	41.1086	264911	265000	4.2e+06
	0	-3.79966e-17	0	-7.94468e-17	348767	2.4625e-17	0	0	0
	265000	1.36603e+06	0.8	0.8	1	1	0.8	2.19902e+08	2.19902e+08
	0	0	0	265000	348767	264911			
Bm161	LC1_HIGH	0.0	1.00	OK	0.00	(13.2-4)	Geom OK	ISO19902 member	Ver_tubi.run(1)
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.99999	0.762	0.0254	265000	2.1e+08	-0.000101054	0	-2.53303e-19
	7.23705e-19	0	-0.00171924	0	265000	0.00171924	264911	265000	4.2e+06
	0	-2.41802e-17	0	-7.94468e-17	348767	2.4625e-17	0	0	0
	265000	1.36603e+06	0.8	0.8	1	1	0.8	2.19902e+08	2.19902e+08
	0	0	0	265000	348767	264911			





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**1.1.1.3 Ver\_tubi.run(1) : ISO 19902 Cone Result**

**Ver\_tubi.run(1) : ISO 19902 Cone Result**

- Sorted by Member (Ascending)
- Then sorted by LoadCase (Ascending)

- Run : Ver\_tubi.run(1)
- Selected LoadCase per Member
- Selected SubCheck per Member
- All Positions along Member

Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.6-10)	(13.6-13)	(13.6-14)	(13.6-18)	(13.6-21)	(13.6-22)	HoopBuckl	Alpha	relpos
	Ds	tc	fy_c	Dj	t	fy	Ps	Ms	oa,eq
	oa,c	ob,c	ob,jt	ob,jc	oa,t	ob,t	oh,t	oh,c	omaxt
	omaxc	oh,jt	oh,jc	fxc	fxe	fhe	fn	fyc	
Bm155	LC1_HIGH	0.0	0.18	OK	0.03	(13.6-13)	Geom OK	ISO19902 cone	Ver_tubi.run(1)
	0.000	0.034	0.000	0.000	0.000	0.000	0.000	4.76347	0.181828
	1.5	0.04	345000	1.5	0.04	345000	1577.11	6.25402e-05	8625.04
	8595.25	0.000933731	3242.13	3242.13	7487.65	0.00093312	1719.4	1719.4	10729.8
	11867.2	0	0	345000	3.34839e+06	0	0	0	
Bm155	LC1_HIGH	0.0	0.73	OK	0.00	(13.6-18)	Geom OK	ISO19902 cone	Ver_tubi.run(1)
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.76347	0.727263
	2.5	0.04	345000	2.5	0.03	345000	395.536	2.14199e-05	1283.86
	1279.43	0.000112655	1547.08	870.231	2219.01	0.000144373	-759.6	-569.7	3766.09
	2154.1	0	0	344982	2.00904e+06	1.344e+06	345000	344982	