

 GeniE V7.9-04	Report: 052400BZCZ00001_PRDE	Report: Annex C: Structural Checks – Monopile – Horizontal Configuration – Punching Shear Check	Date: 05/08/2019

# 1 Joint Check : Frame Code Check

Description : Capacity Manager

## 1.1 ver\_nodo\_G.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\_nodo\_G.run(1) : Joint Result Full

#### 1.1.1.1 ver\_nodo\_G.run(1) : ISO 19902 Joint Result

#### ver\_nodo\_G.run(1) : ISO 19902 Joint Result

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

- Run : ver\_nodo\_G.run(1)
- Selected LoadCase per Joint
- All Brace Members in Joint

Joint	LoadCase	Phase	Member	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	Required Thk.	JointType	Uj	Ujax	Ujmo	Ujmod	Ujaxmod	Ujmomod	Ujove
	Ujaxove	Ujmoove	Ujshear	Uj_lim	Ujax_lim	Ujmo_lim	Ujmod_lim	Ujaxmod_lim	Ujmomod_lim
	Ujove_lim	Ujaxove_lim	Ujmoove_lim	Ujshear_lim	beta	gamma	theta	tau	gap_D
	Tn/Tc	Uj,ipb	Uj,opb	PB	Pd	MB,ipb	Md,ipb	MB,opb	Md,opb
	Qu,ax	Qu,ipb	Qu,opb	Qf,ax	Qf,ipb	Qf,opb	YTfact	Xfact	Kfact
	KTTfact	KTKfact	CanRFac	Lc	fy	Ub	D	T	d
	t	g	Tp						



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Joint	LoadCase	Phase	Member	Status	UFtot	Formula	GeomCheck	SubCheck	Run
	Required Thk.	JointType	Uj	Ujax	Ujmo	Ujmod	Ujaxmod	Ujmomod	Ujove
	Ujaxove	Ujmoove	Ujshear	Uj_lim	Ujax_lim	Ujmo_lim	Ujmod_lim	Ujaxmod_lim	Ujmomod_lim
	Ujove_lim	Ujaxove_lim	Ujmoove_lim	Ujshear_lim	beta	gamma	theta	tau	gap_D
	Tn/Tc	Uj,ipb	Uj,opb	PB	Pd	MB,ipb	Md,ipb	MB,opb	Md,opb
	Qu,ax	Qu,ipb	Qu,opb	Qf,ax	Qf,ipb	Qf,opb	YTfact	Xfact	Kfact
	KTTfact	KTKfact	CanRFac	Lc	fy	Ub	D	T	d
	t	g	Tp						
Jt1	LC1_HIGH	0.0	Bm1	OK	0.05	Uj	Geom OK	ISO19902 joint	ver_nodo_G.run(1)
		100% YT	0.047	0.000	0.047	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	0.406667	25	90	0.636667	0
	0	7.49227e-35	0.0471199	-1.92165e-35	51832.8	-9.43586e-14	10901.2	-513.664	10901.2
	1	1	1	0.98627	0.919492	0.962429	1	0	0
	0	0	0	0	345000	-1	1.5	0.03	0.61
	0.0191	0	0						
Jt1	LC1_HIGH	0.0	Bm2	OK	0.19	Uj	Geom OK	ISO19902 joint	ver_nodo_G.run(1)
		100% YT	0.194	0.000	0.194	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	0.406667	25	90	0.636667	0
	0	1.54626e-34	0.194017	1.92165e-35	7412.88	3.14529e-14	2529.41	-513.665	2647.53
	25.4167	15.25	15.25	0.98627	0.919492	0.962429	1	0	0
	0	0	0	0	345000	-1	1.5	0.03	0.61
	0.0191	0	0						