

 GeniE V7.9-04	Report: 052400BZCZ00001_PRDE	Report: Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low	Date: 05/08/2019

1 Joint Check – Low Consequence Factor : Frame Code Check

Description : Capacity Manager

1.1 ver_nodi_4.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_nodi_4.run(1) : Joint Result Full

1.1.1.1 ver_nodi_4.run(1) : ISO 19902 Joint Result

ver_nodi_4.run(1) : ISO 19902 Joint Result

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

- Run : ver_nodi_4.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						
Jt2	LC3_LC_125	0.0	Bm37	Failed(geo)	0.05	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.050	0.033	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	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	19.5396	1	0.262261
	0	0.000143548	0.0162919	32.7666	990.705	-0.780729	65.1632	0.599073	36.7712
	21.035	10.7508	5.76033	0.939769	0.90935	0.957697	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt2	LC3_LC_125	0.0	Bm47	Failed(geo)	0.05	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.050	0.040	0.010	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	0.686629	12.1062	19.5396	1	0.262261
	0	0.000111868	0.00943842	39.7621	990.705	-0.689215	65.1632	-0.347062	36.7712
	21.035	10.7508	5.76033	0.939769	0.90935	0.957697	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt2	LC3_LC_125	0.0	Bm95	OK	0.31	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		82% YT, 18% K	0.313	0.236	0.077	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	0.686629	12.1062	90	1	0.262261
	0	0.0063347	0.0702394	-62.2944	263.951	-1.73464	21.7944	0.863836	12.2984
	16.1684	10.7508	5.76033	0.976358	0.90935	0.957697	0.82	0	0.18
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt2	LC3_LC_125	0.0	Bm98	OK	0.33	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		79% YT, 21% K	0.329	0.240	0.090	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	0.686629	12.1062	90	1	0.262261
	0	0.00525625	0.0845094	-63.8264	266.417	-1.5801	21.7944	-1.03933	12.2984
	16.3465	10.7508	5.76033	0.97502	0.90935	0.957697	0.79	0	0.21
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt2	LC6_LC_075	0.0	Bm37	Failed(geo)	0.03	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.033	0.002	0.031	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	0.686629	12.1062	19.5396	1	0.262261
	0	7.46577e-06	0.0310564	1.71346	894.657	0.151303	55.3746	-1.06597	34.3236
	21.035	10.7508	5.76033	0.848659	0.77275	0.89395	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt2	LC6_LC_075	0.0	Bm47	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.041	0.009	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	0.686629	12.1062	19.5396	1	0.262261
	0	1.84247e-05	0.0317746	8.35811	894.657	0.23769	55.3746	1.09062	34.3236
	21.035	10.7508	5.76033	0.848659	0.77275	0.89395	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt2	LC6_LC_075	0.0	Bm95	OK	0.34	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.337	0.255	0.082	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	0.686629	12.1062	90	1	0.262261
	0	0.00290485	0.0789246	-62.29	243.828	-0.998195	18.5205	-0.906041	11.4798



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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	Ujshare	Uj_lim	Ujax_lim	Ujmo_lim	Ujmod_lim	Ujaxmod_lim	Ujmomod_lim
	Ujove_lim	Ujaxove_lim	Ujmoove_lim	Ujshare_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						
	15.1595	10.7508	5.76033	0.960001	0.77275	0.89395	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt2	LC6_LC_075	0.0	Bm98	OK	0.35	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		96% YT, 4% K	0.353	0.260	0.093	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	0.686629	12.1062	90	1	0.262261
	0	0.00245714	0.0902152	-63.8674	245.507	-0.918055	18.5205	1.03566	11.4798
	15.3376	10.7508	5.76033	0.956627	0.77275	0.89395	0.96	0	0.04
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC3_LC_125	0.0	Bm39	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.043	0.006	0.037	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	0.686629	12.1062	19.5396	1	0.262261
	0	1.12603e-05	0.0371948	5.2499	893.112	0.185285	55.2161	1.27519	34.284
	21.035	10.7508	5.76033	0.847193	0.770539	0.892918	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC3_LC_125	0.0	Bm48	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.040	0.005	0.035	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	0.686629	12.1062	19.5396	1	0.262261
	0	4.24856e-06	0.0350303	4.60733	893.112	-0.113812	55.2161	1.20098	34.284
	21.035	10.7508	5.76033	0.847193	0.770539	0.892918	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC3_LC_125	0.0	Bm97	OK	0.33	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		97% YT, 3% K	0.334	0.259	0.076	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	0.686629	12.1062	90	1	0.262261
	0	0.00253132	0.0729763	-63.3433	244.837	-0.929143	18.4675	0.836789	11.4666
	15.2782	10.7508	5.76033	0.957336	0.770539	0.892918	0.97	0	0.03
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC3_LC_125	0.0	Bm98	OK	0.34	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		98% YT, 2% K	0.339	0.261	0.078	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	0.686629	12.1062	90	1	0.262261
	0	0.00329338	0.074705	-63.8264	244.282	1.05981	18.4675	0.85661	11.4666
	15.2189	10.7508	5.76033	0.958471	0.770539	0.892918	0.98	0	0.02
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC6_LC_075	0.0	Bm39	Failed(geo)	0.05	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.047	0.037	0.010	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	0.686629	12.1062	19.5396	1	0.262261
	0	0.000136247	0.00993204	36.1839	991.07	-0.761044	65.1999	-0.365304	36.7803
	21.035	10.7508	5.76033	0.940115	0.909862	0.957936	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC6_LC_075	0.0	Bm48	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.045	0.037	0.008	0.000	0.000	0.000	0.000



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Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
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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						
	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	0.686629	12.1062	19.5396	1	0.262261
	0	0.000155439	0.00776561	36.3488	991.07	0.81288	65.1999	-0.285622	36.7803
	21.035	10.7508	5.76033	0.940115	0.909862	0.957936	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC6_LC_075	0.0	Bm97	OK	0.33	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		81% YT, 19% K	0.326	0.239	0.087	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	0.686629	12.1062	90	1	0.262261
	0	0.00578498	0.0811846	-63.3381	264.814	-1.6586	21.8067	-0.998694	12.3015
	16.2278	10.7508	5.76033	0.976045	0.909862	0.957936	0.81	0	0.19
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt3	LC6_LC_075	0.0	Bm98	OK	0.34	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		81% YT, 19% K	0.345	0.241	0.103	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	0.686629	12.1062	90	1	0.262261
	0	0.0062396	0.0971147	-63.8674	264.814	1.72254	21.8067	-1.19466	12.3015
	16.2278	10.7508	5.76033	0.976045	0.909862	0.957936	0.81	0	0.19
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt4	LC3_LC_125	0.0	Bm40	Failed(geo)	0.05	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.046	0.036	0.010	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	0.686629	12.1062	19.5396	1	0.262261
	0	0.000141457	0.00948299	36.0704	991.981	0.776543	65.2911	-0.349004	36.8031
	21.035	10.7508	5.76033	0.940979	0.911135	0.95853	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt4	LC3_LC_125	0.0	Bm50	Failed(geo)	0.05	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.047	0.037	0.011	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	0.686629	12.1062	19.5396	1	0.262261
	0	0.000165145	0.0103408	36.3282	991.981	0.839048	65.2911	0.380574	36.8031
	21.035	10.7508	5.76033	0.940979	0.911135	0.95853	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt4	LC3_LC_125	0.0	Bm96	OK	0.37	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		81% YT, 19% K	0.368	0.240	0.128	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	0.686629	12.1062	90	1	0.262261
	0	0.00689313	0.12092	-63.5027	264.914	1.81303	21.8372	1.48842	12.3091
	16.2278	10.7508	5.76033	0.976376	0.911135	0.95853	0.81	0	0.19
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt4	LC3_LC_125	0.0	Bm97	OK	0.28	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		81% YT, 19% K	0.280	0.239	0.041	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	0.686629	12.1062	90	1	0.262261
	0	0.00618405	0.0350487	-63.3433	264.914	1.71725	21.8372	-0.43142	12.3091
	16.2278	10.7508	5.76033	0.976376	0.911135	0.95853	0.81	0	0.19
	0	0	0	0	275000	-1	0.1937	0.008	0.133



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Report:
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Date:
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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						
	0.008	0.0508	0						
Jt4	LC6_LC_075	0.0	Bm40	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.043	0.006	0.038	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	0.686629	12.1062	19.5396	1	0.262261
	0	9.32181e-06	0.0377256	5.03484	897.396	-0.16991	55.6504	1.29748	34.3926
	21.035	10.7508	5.76033	0.851256	0.776599	0.895746	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt4	LC6_LC_075	0.0	Bm50	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.037	0.005	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	0.686629	12.1062	19.5396	1	0.262261
	0	2.47667e-06	0.0322127	4.44953	897.396	-0.0875795	55.6504	-1.10788	34.3926
	21.035	10.7508	5.76033	0.851256	0.776599	0.895746	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt4	LC6_LC_075	0.0	Bm96	OK	0.31	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		98% YT, 2% K	0.314	0.259	0.054	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	0.686629	12.1062	90	1	0.262261
	0	0.00383031	0.0503844	-63.4592	244.563	1.15194	18.6128	-0.579567	11.5029
	15.2189	10.7508	5.76033	0.959549	0.776599	0.895746	0.98	0	0.02
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt4	LC6_LC_075	0.0	Bm97	OK	0.38	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		97% YT, 3% K	0.383	0.258	0.124	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	0.686629	12.1062	90	1	0.262261
	0	0.00281527	0.121434	-63.3381	245.13	0.987578	18.6128	1.39685	11.5029
	15.2782	10.7508	5.76033	0.958444	0.776599	0.895746	0.97	0	0.03
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC3_LC_125	0.0	Bm38	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.036	0.003	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	0.686629	12.1062	19.5396	1	0.262261
	0	9.55262e-06	0.0335921	2.3785	891.103	-0.170042	55.0167	-1.15	34.2341
	21.035	10.7508	5.76033	0.845288	0.767756	0.891619	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC3_LC_125	0.0	Bm49	Failed(geo)	0.04	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.043	0.011	0.033	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	0.686629	12.1062	19.5396	1	0.262261
	0	2.33996e-05	0.0326838	9.36434	891.103	0.266133	55.0167	-1.1189	34.2341
	21.035	10.7508	5.76033	0.845288	0.767756	0.891619	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC3_LC_125	0.0	Bm95	OK	0.35	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.349	0.256	0.093	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	0.686629	12.1062	90	1	0.262261



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Report:
052400BZCZ00001_PRDE

Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
05/08/2019

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						
	0	0.00249115	0.0905735	-62.2944	243.61	0.918412	18.4008	-1.03706	11.4499
	15.1595	10.7508	5.76033	0.959155	0.767756	0.891619	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC3_LC_125	0.0	Bm96	OK	0.36	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		95% YT, 5% K	0.356	0.258	0.097	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	0.686629	12.1062	90	1	0.262261
	0	0.00202091	0.0954204	-63.5027	245.809	-0.827201	18.4008	-1.09255	11.4499
	15.3969	10.7508	5.76033	0.954554	0.767756	0.891619	0.95	0	0.05
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC6_LC_075	0.0	Bm38	Failed(geo)	0.05	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.049	0.034	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	0.686629	12.1062	19.5396	1	0.262261
	0	0.000136954	0.0147502	33.3153	990.29	0.762114	65.1227	0.542234	36.761
	21.035	10.7508	5.76033	0.939375	0.908784	0.957433	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC6_LC_075	0.0	Bm49	Failed(geo)	0.05	Uj	theta	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.050	0.041	0.009	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	0.686629	12.1062	19.5396	1	0.262261
	0	0.000102739	0.00866855	40.6307	990.29	-0.660085	65.1227	0.318665	36.761
	21.035	10.7508	5.76033	0.939375	0.908784	0.957433	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC6_LC_075	0.0	Bm95	OK	0.30	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		82% YT, 18% K	0.301	0.236	0.065	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	0.686629	12.1062	90	1	0.262261
	0	0.00577167	0.059408	-62.29	263.909	1.65473	21.7809	0.730424	12.2951
	16.1684	10.7508	5.76033	0.976218	0.908784	0.957433	0.82	0	0.18
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt5	LC6_LC_075	0.0	Bm96	OK	0.32	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		79% YT, 21% K	0.324	0.238	0.086	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	0.686629	12.1062	90	1	0.262261
	0	0.00465928	0.0808724	-63.4592	266.371	-1.48674	21.7809	0.994331	12.2951
	16.3465	10.7508	5.76033	0.97487	0.908784	0.957433	0.79	0	0.21
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0.0508	0						
Jt6	LC3_LC_125	0.0	Bm112	OK	0.09	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.090	0.001	0.089	0.000	0.000	0.000	0.009
	0.000	0.009	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.0064672	0.0827756	0.338531	344.889	1.91479	23.8102	1.05973	12.8025
	20.5989	10.7508	5.76033	0.998878	0.993456	0.996946	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt6	LC3_LC_125	0.0	Bm113	OK	0.04	Ujove	Geom OK	ISO19902 joint	ver_nodi_4.run(1)



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Report:
052400BZCZ00001_PRDEReport:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: LowDate:
05/08/2019

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						
		100% K	0.031	0.000	0.031	0.042	0.000	0.042	0.043
	0.034	0.009	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00599702	0.0245908	-0.190261	602.699	1.84387	23.8102	0.314823	12.8025
	36.1138	10.7508	5.76033	0.995645	0.993456	0.996946	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt6	LC3_LC_125	0.0	Bm128	OK	0.18	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.094	0.061	0.033	0.184	0.062	0.123	0.089
	0.001	0.088	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	0.000218527	0.0323981	21.4608	350.432	0.357634	24.1928	0.421442	13.0082
	20.5989	10.7508	5.76033	0.998878	0.993456	0.996946	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt6	LC3_LC_125	0.0	Bm129	OK	0.07	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.067	0.058	0.009	0.000	0.000	0.000	0.008
	0.007	0.001	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	0.000174157	0.00862371	20.6285	353.051	0.31927	24.1928	0.112179	13.0082
	20.754	10.7508	5.76033	0.998846	0.993456	0.996946	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt6	LC6_LC_075	0.0	Bm112	OK	0.02	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.023	0.001	0.022	0.000	0.000	0.000	0.002
	0.000	0.002	0.010	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00604169	0.0159802	0.400863	344.503	1.8403	23.6761	0.20405	12.7689
	20.5989	10.7508	5.76033	0.99776	0.987861	0.994335	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt6	LC6_LC_075	0.0	Bm113	OK	0.11	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.089	0.000	0.089	0.113	0.000	0.112	0.059
	0.037	0.022	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00538941	0.0833823	-0.181086	600.574	1.73812	23.6761	1.0647	12.7689
	36.1138	10.7508	5.76033	0.992135	0.987861	0.994335	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt6	LC6_LC_075	0.0	Bm128	OK	0.10	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.078	0.066	0.011	0.101	0.067	0.034	0.023
	0.001	0.022	0.010	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	0.0001045	0.0112508	23.1869	350.039	0.245919	24.0566	0.14597	12.9742
	20.5989	10.7508	5.76033	0.99776	0.987861	0.994335	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt6	LC6_LC_075	0.0	Bm129	OK	0.08	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.085	0.063	0.022	0.000	0.000	0.000	0.010
	0.008	0.002	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	5.158e-05	0.0220661	22.0603	352.641	0.172772	24.0566	0.286289	12.9742
	20.754	10.7508	5.76033	0.997704	0.987861	0.994335	0.99	0	0.01



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Report:
052400BZCZ00001_PRDE

Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
05/08/2019

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						
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC3_LC_125	0.0	Bm111	OK	0.08	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.047	0.001	0.046	0.079	0.022	0.056	0.073
	0.063	0.009	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.0051975	0.0410669	0.22565	344.248	1.69914	23.5685	-0.523275	12.742
	20.5989	10.7508	5.76033	0.997022	0.983369	0.992239	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC3_LC_125	0.0	Bm112	OK	0.05	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.048	0.001	0.047	0.000	0.000	0.000	0.005
	0.000	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00484825	0.0423517	0.338531	344.248	-1.64106	23.5685	-0.539647	12.742
	20.5989	10.7508	5.76033	0.997022	0.983369	0.992239	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC3_LC_125	0.0	Bm126	OK	0.07	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.071	0.062	0.009	0.000	0.000	0.000	0.009
	0.008	0.001	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	2.81773e-05	0.00902286	21.8276	349.78	0.127117	23.9472	-0.116817	12.9468
	20.5989	10.7508	5.76033	0.997022	0.983369	0.992239	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC3_LC_125	0.0	Bm127	OK	0.13	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.084	0.055	0.029	0.131	0.055	0.075	0.047
	0.001	0.046	0.008	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	1.49307e-06	0.0287663	19.2311	349.78	-0.0292614	23.9472	-0.372431	12.9468
	20.5989	10.7508	5.76033	0.997022	0.983369	0.992239	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC6_LC_075	0.0	Bm111	OK	0.06	Ujove	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.022	0.001	0.021	0.046	0.021	0.025	0.061
	0.059	0.002	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00579575	0.0151662	0.22859	344.734	1.80783	23.7467	0.193924	12.7866
	20.5989	10.7508	5.76033	0.998429	0.990808	0.99571	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC6_LC_075	0.0	Bm112	OK	0.03	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.032	0.001	0.031	0.000	0.000	0.000	0.003
	0.000	0.003	0.007	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00521988	0.025486	0.400863	344.734	-1.71567	23.7467	0.325879	12.7866
	20.5989	10.7508	5.76033	0.998429	0.990808	0.99571	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC6_LC_075	0.0	Bm126	OK	0.06	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.060	0.058	0.002	0.000	0.000	0.000	0.007
	0.007	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000



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Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
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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						
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	0.000131564	0.00182396	20.4214	350.274	0.276755	24.1284	0.0236971	12.9921
	20.5989	10.7508	5.76033	0.998429	0.990808	0.99571	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt7	LC6_LC_075	0.0	Bm127	OK	0.08	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.056	0.050	0.006	0.075	0.050	0.025	0.031
	0.001	0.030	0.007	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	3.30807e-05	0.00634344	17.5385	350.274	-0.138776	24.1284	-0.0824146	12.9921
	20.5989	10.7508	5.76033	0.998429	0.990808	0.99571	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt8	LC3_LC_125	0.0	Bm111	OK	0.03	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.033	0.001	0.032	0.000	0.000	0.000	0.003
	0.000	0.003	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00609012	0.0259271	0.22565	344.827	-1.85615	23.7848	0.331766	12.7961
	20.5989	10.7508	5.76033	0.998699	0.992396	0.996452	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt8	LC3_LC_125	0.0	Bm122	OK	0.04	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.037	0.000	0.037	0.000	0.000	0.000	0.004
	0.000	0.004	0.008	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00554194	0.031452	-0.262569	602.27	-1.77064	23.7848	-0.402464	12.7961
	36.1138	10.7508	5.76033	0.994936	0.992396	0.996452	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt8	LC3_LC_125	0.0	Bm124	OK	0.11	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.069	0.056	0.014	0.107	0.056	0.052	0.037
	0.001	0.036	0.008	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	9.5153e-05	0.0136931	19.645	352.985	-0.235741	24.167	-0.178034	13.0018
	20.754	10.7508	5.76033	0.998662	0.992396	0.996452	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt8	LC3_LC_125	0.0	Bm125	OK	0.10	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.070	0.060	0.010	0.104	0.060	0.044	0.032
	0.001	0.031	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	0.000188351	0.0101546	21.0321	350.369	-0.331671	24.167	0.132028	13.0018
	20.5989	10.7508	5.76033	0.998699	0.992396	0.996452	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt8	LC6_LC_075	0.0	Bm111	OK	0.04	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.036	0.001	0.036	0.000	0.000	0.000	0.004
	0.000	0.003	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00547011	0.0302858	0.22859	344.389	-1.7475	23.6276	-0.38635	12.7568
	20.5989	10.7508	5.76033	0.99743	0.985836	0.99339	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						



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Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
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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	Ujshare	Uj_lim	Ujax_lim	Ujmo_lim	Ujmod_lim	Ujaxmod_lim	Ujmomod_lim
	Ujove_lim	Ujaxove_lim	Ujmoove_lim	Ujshare_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						
Jt8	LC6_LC_075	0.0	Bm122	OK	0.04	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.041	0.001	0.041	0.000	0.000	0.000	0.004
	0.000	0.004	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00514743	0.0357987	-0.303026	599.744	-1.69517	23.6276	0.456677	12.7568
	36.1138	10.7508	5.76033	0.990764	0.985836	0.99339	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt8	LC6_LC_075	0.0	Bm124	OK	0.11	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.069	0.061	0.008	0.110	0.061	0.049	0.041
	0.001	0.040	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	2.70272e-05	0.00813807	21.336	352.518	-0.124808	24.0073	0.105484	12.9618
	20.754	10.7508	5.76033	0.997364	0.985836	0.99339	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt8	LC6_LC_075	0.0	Bm125	OK	0.10	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.065	0.064	0.001	0.101	0.064	0.037	0.036
	0.001	0.035	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	5.75053e-05	0.000771936	22.4367	349.924	-0.182053	24.0073	-0.0100057	12.9618
	20.5989	10.7508	5.76033	0.99743	0.985836	0.99339	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC3_LC_125	0.0	Bm113	OK	0.02	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.022	0.000	0.022	0.000	0.000	0.000	0.002
	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00523538	0.0164897	-0.190261	599.891	-1.71021	23.6361	0.210391	12.759
	36.1138	10.7508	5.76033	0.991007	0.986192	0.993556	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC3_LC_125	0.0	Bm122	OK	0.02	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.022	0.000	0.022	0.000	0.000	0.000	0.002
	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00569354	0.016132	-0.262569	599.891	1.78348	23.6361	0.205827	12.759
	36.1138	10.7508	5.76033	0.991007	0.986192	0.993556	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC3_LC_125	0.0	Bm123	OK	0.08	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.075	0.064	0.012	0.075	0.064	0.011	0.022
	0.001	0.021	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	8.66766e-05	0.0116259	22.4466	352.539	0.223589	24.016	-0.150718	12.964
	20.754	10.7508	5.76033	0.997423	0.986192	0.993556	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC3_LC_125	0.0	Bm130	OK	0.09	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.090	0.061	0.029	0.079	0.061	0.018	0.022
	0.001	0.021	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	3.3033e-05	0.0284717	21.5482	352.539	-0.13803	24.016	-0.369107	12.964



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Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: LowDate:
05/08/2019

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						
	20.754	10.7508	5.76033	0.997423	0.986192	0.993556	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC6_LC_075	0.0	Bm113	OK	0.05	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.049	0.000	0.048	0.000	0.000	0.000	0.005
	0.000	0.005	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00582137	0.0425091	-0.181086	602.542	-1.81596	23.8009	-0.544123	12.8002
	36.1138	10.7508	5.76033	0.995386	0.99307	0.996766	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC6_LC_075	0.0	Bm122	OK	0.06	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% K	0.057	0.001	0.056	0.000	0.000	0.000	0.006
	0.000	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	90	1	-0.189136
	0	0.00609958	0.0499801	-0.303026	602.542	1.85885	23.8009	-0.639753	12.8002
	36.1138	10.7508	5.76033	0.995386	0.99307	0.996766	0	0	1
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC6_LC_075	0.0	Bm123	OK	0.15	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.091	0.059	0.032	0.148	0.059	0.089	0.056
	0.001	0.055	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	0.000192887	0.0319957	20.7334	353.027	0.335869	24.1834	-0.416132	13.0059
	20.754	10.7508	5.76033	0.998779	0.99307	0.996766	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt9	LC6_LC_075	0.0	Bm130	OK	0.15	Ujmod	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		99% YT, 1% K	0.099	0.057	0.042	0.149	0.057	0.092	0.048
	0.001	0.047	0.009	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.686629	12.1062	79.796	1	-0.189136
	0	0.000138057	0.0421648	20.1226	353.027	-0.28415	24.1834	-0.548391	13.0059
	20.754	10.7508	5.76033	0.998779	0.99307	0.996766	0.99	0	0.01
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	-0.0366357	0						
Jt10	LC3_LC_125	0.0	Bm124	OK	0.06	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.065	0.011	0.054	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	0.686629	12.1062	79.796	1	0
	0	0.00142248	0.05264	3.7365	350.816	0.918328	24.3487	-0.686804	13.0472
	20.5989	10.7508	5.76033	0.999973	0.999855	0.999932	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt10	LC3_LC_125	0.0	Bm129	OK	0.08	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.077	0.013	0.064	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	0.686629	12.1062	79.796	1	0
	0	0.00144387	0.0623245	4.63234	350.816	-0.925207	24.3487	-0.81316	13.0472
	20.5989	10.7508	5.76033	0.999973	0.999855	0.999932	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt10	LC6_LC_075	0.0	Bm124	OK	0.04	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.035	0.016	0.020	0.000	0.000	0.000	0.000



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Report:
052400BZCZ00001_PRDE

Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
05/08/2019

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						
	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	0.686629	12.1062	79.796	1	0
	0	0.000884946	0.0188694	5.47291	350.744	0.723455	24.3194	0.246055	13.0399
	20.5989	10.7508	5.76033	0.999769	0.998654	0.999372	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt10	LC6_LC_075	0.0	Bm129	OK	0.03	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.031	0.017	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	0.686629	12.1062	79.796	1	0
	0	0.000884707	0.0123229	6.10879	350.744	-0.723358	24.3194	0.160689	13.0399
	20.5989	10.7508	5.76033	0.999769	0.998654	0.999372	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt11	LC3_LC_125	0.0	Bm123	OK	0.06	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.063	0.019	0.044	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	0.686629	12.1062	79.796	1	0
	0	0.00091029	0.0435612	6.56393	350.744	-0.733734	24.3192	0.56803	13.0398
	20.5989	10.7508	5.76033	0.999768	0.998644	0.999367	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt11	LC3_LC_125	0.0	Bm126	OK	0.06	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.063	0.017	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	0.686629	12.1062	79.796	1	0
	0	0.000882456	0.0455	5.96082	350.744	-0.72243	24.3192	-0.593312	13.0398
	20.5989	10.7508	5.76033	0.999768	0.998644	0.999367	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt11	LC6_LC_075	0.0	Bm123	OK	0.04	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.043	0.014	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	0.686629	12.1062	79.796	1	0
	0	0.00145439	0.0276539	4.8154	350.815	-0.928569	24.3486	-0.360805	13.0472
	20.5989	10.7508	5.76033	0.999972	0.999851	0.999931	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt11	LC6_LC_075	0.0	Bm126	OK	0.05	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.045	0.013	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	0.686629	12.1062	79.796	1	0
	0	0.00144236	0.0308576	4.50774	350.815	-0.924721	24.3486	0.402604	13.0472
	20.5989	10.7508	5.76033	0.999972	0.999851	0.999931	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt12	LC3_LC_125	0.0	Bm125	OK	0.04	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.035	0.015	0.021	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	0.686629	12.1062	79.796	1	0
	0	0.00147018	0.0193547	5.11053	350.816	0.933611	24.349	0.252525	13.0473
	20.5989	10.7508	5.76033	0.999975	0.999867	0.999938	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133



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Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
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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						
	0.008	0	0						
Jt12	LC3_LC_125	0.0	Bm128	OK	0.03	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.026	0.015	0.011	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	0.686629	12.1062	79.796	1	0
	0	0.00143371	0.00929869	5.30773	350.816	-0.921959	24.349	0.121322	13.0473
	20.5989	10.7508	5.76033	0.999975	0.999867	0.999938	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt12	LC6_LC_075	0.0	Bm125	OK	0.08	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.077	0.019	0.058	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	0.686629	12.1062	79.796	1	0
	0	0.000903914	0.056978	6.56107	350.746	0.731194	24.3203	-0.742999	13.0401
	20.5989	10.7508	5.76033	0.999776	0.99869	0.999389	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt12	LC6_LC_075	0.0	Bm128	OK	0.08	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.083	0.020	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	0.686629	12.1062	79.796	1	0
	0	0.00089416	0.0616004	7.06566	350.746	-0.727238	24.3203	-0.803275	13.0401
	20.5989	10.7508	5.76033	0.999776	0.99869	0.999389	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt13	LC3_LC_125	0.0	Bm127	OK	0.11	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.113	0.009	0.104	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	0.686629	12.1062	79.796	1	0
	0	0.000945739	0.103024	3.14432	350.743	0.747879	24.319	1.34342	13.0398
	20.5989	10.7508	5.76033	0.999766	0.998637	0.999364	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt13	LC3_LC_125	0.0	Bm130	OK	0.21	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.208	0.016	0.192	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	0.686629	12.1062	79.796	1	0
	0	0.000815395	0.191326	5.60638	350.743	0.694433	24.319	2.49484	13.0398
	20.5989	10.7508	5.76033	0.999766	0.998637	0.999364	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt13	LC6_LC_075	0.0	Bm127	OK	0.18	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.179	0.004	0.175	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	0.686629	12.1062	79.796	1	0
	0	0.00149857	0.173864	1.40312	350.813	0.942536	24.3478	2.2684	13.047
	20.5989	10.7508	5.76033	0.999966	0.999819	0.999916	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt13	LC6_LC_075	0.0	Bm130	OK	0.13	Uj	Geom OK	ISO19902 joint	ver_nodi_4.run(1)
		100% YT	0.129	0.012	0.118	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	0.686629	12.1062	79.796	1	0



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Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
05/08/2019

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						
	0	0.00135529	0.116333	4.13369	350.813	0.896347	24.3478	1.51779	13.047
	20.5989	10.7508	5.76033	0.999966	0.999819	0.999916	1	0	0
	0	0	0	0	275000	-1	0.1937	0.008	0.133
	0.008	0	0						
Jt14	LC3_LC_125	0.0	Bm128, 1	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		72% YT, 28% X	0.018	0.017	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	0.000
	0.000	0.000	0.000	0.000	1	8.3125	20.4079	1	0
	0	2.17787e-05	0.00113093	20.9323	1210.08	-0.386109	82.7361	0.0666283	58.9144
	25.1928	12.9741	9.22605	0.999207	0.997461	0.998815	0.72	0.28	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt14	LC3_LC_125	0.0	Bm128, 2	Failed(geo)	0.01	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.012	0.009	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	1	8.3125	20.4079	1	0
	0	5.62233e-07	0.00226069	5.83628	616.188	0.0620373	82.7361	-0.133187	58.9144
	12.8313	12.9741	9.22605	0.999022	0.997461	0.998815	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt14	LC6_LC_075	0.0	Bm128, 1	Failed(geo)	0.04	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		66% YT, 34% X	0.041	0.020	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	0.000
	0.000	0.000	0.000	0.000	1	8.3125	20.4079	1	0
	0	3.10379e-05	0.0216801	22.6583	1161.01	-0.461656	82.8653	1.2782	58.9573
	24.1626	12.9741	9.22605	0.999587	0.999019	0.999542	0.66	0.34	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt14	LC6_LC_075	0.0	Bm128, 2	Failed(geo)	0.03	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.031	0.012	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	1	8.3125	20.4079	1	0
	0	2.73527e-06	0.0182597	7.5942	616.527	0.137048	82.8653	1.07654	58.9573
	12.8313	12.9741	9.22605	0.999573	0.999019	0.999542	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt15	LC3_LC_125	0.0	Bm130, 1	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		71% YT, 29% X	0.021	0.017	0.004	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	1	8.3125	20.4079	1	0
	0	3.11454e-05	0.00368118	21.0197	1201.35	-0.460879	82.5829	0.216687	58.8636
	25.0211	12.9741	9.22605	0.998761	0.995615	0.997954	0.71	0.29	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt15	LC3_LC_125	0.0	Bm130, 2	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.022	0.010	0.012	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	1	8.3125	20.4079	1	0
	0	4.01998e-06	0.0118211	6.13492	615.789	0.165578	82.5829	0.695829	58.8636
	12.8313	12.9741	9.22605	0.998375	0.995615	0.997954	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt15	LC6_LC_075	0.0	Bm130, 1	Failed(geo)	0.03	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)



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Report:
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Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
05/08/2019

Joint	LoadCase	Phase	Member	Status	UFtot	Formula	GeomCheck	SubCheck	Run
	Required Thk.	JointType	Uj	Ujax	Ujmo	Ujmod	Ujaxmod	Ujmomod	Ujove
	Ujaxove	Ujmoove	Ujshare	Uj_lim	Ujax_lim	Ujmo_lim	Ujmod_lim	Ujaxmod_lim	Ujmomod_lim
	Ujove_lim	Ujaxove_lim	Ujmoove_lim	Ujshare_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						
	0.000	76% YT, 24% X	0.032	0.016	0.017	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	1	8.3125	20.4079	1	0
	0	2.06265e-05	0.0165288	19.594	1243.29	-0.376263	82.8474	-0.974398	58.9514
	25.8795	12.9741	9.22605	0.999421	0.998804	0.999442	0.76	0.24	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt15	LC6_LC_075	0.0	Bm130, 2	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.016	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	0.000
	0.000	0.000	0.000	0.000	1	8.3125	20.4079	1	0
	0	9.52395e-07	0.00837592	4.66223	616.448	0.0808514	82.8474	-0.493772	58.9514
	12.8313	12.9741	9.22605	0.999444	0.998804	0.999442	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt16	LC3_LC_125	0.0	Bm124, 1	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		78% YT, 22% X	0.025	0.015	0.010	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	1	8.3125	20.4079	1	0
	0	2.17119e-05	0.00957694	19.1165	1259.59	-0.38574	82.784	-0.564372	58.9303
	26.2229	12.9741	9.22605	0.999249	0.998039	0.999085	0.78	0.22	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt16	LC3_LC_125	0.0	Bm124, 2	Failed(geo)	0.01	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.015	0.007	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	0.000
	0.000	0.000	0.000	0.000	1	8.3125	20.4079	1	0
	0	9.99845e-07	0.00769418	4.26504	616.284	0.0827776	82.784	-0.45342	58.9303
	12.8313	12.9741	9.22605	0.999178	0.998039	0.999085	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt16	LC6_LC_075	0.0	Bm124, 1	Failed(geo)	0.03	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		71% YT, 29% X	0.028	0.017	0.011	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	1	8.3125	20.4079	1	0
	0	3.07864e-05	0.0108582	20.8075	1202.04	-0.459577	82.8283	0.640039	58.945
	25.0211	12.9741	9.22605	0.999409	0.998573	0.999334	0.71	0.29	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt16	LC6_LC_075	0.0	Bm124, 2	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.022	0.010	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	1	8.3125	20.4079	1	0
	0	3.59109e-06	0.0126198	6.00145	616.41	0.156961	82.8283	0.743873	58.945
	12.8313	12.9741	9.22605	0.999383	0.998573	0.999334	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt17	LC3_LC_125	0.0	Bm126, 1	Failed(geo)	0.03	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		70% YT, 30% X	0.025	0.018	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	0.000
	0.000	0.000	0.000	0.000	1	8.3125	20.4079	1	0
	0	3.11064e-05	0.00750631	21.2991	1193.66	-0.461714	82.7843	0.44235	58.9304
	24.8494	12.9741	9.22605	0.999283	0.998043	0.999087	0.7	0.3	0



GeniE V7.9-04

Report:
052400BZCZ00001_PRDE

Report:
Annex C: Structural Checks – Deck – Punching Shear Check – Consequence Factor: Low

Date:
05/08/2019

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						
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt17	LC3_LC_125	0.0	Bm126_2	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.021	0.011	0.010	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	1	8.3125	20.4079	1	0
	0	3.60213e-06	0.00998319	6.48936	616.296	0.157119	82.7843	0.588313	58.9304
	12.8313	12.9741	9.22605	0.999198	0.998043	0.999087	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt17	LC6_LC_075	0.0	Bm126_1	Failed(geo)	0.03	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		75% YT, 25% X	0.029	0.016	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	1	8.3125	20.4079	1	0
	0	2.06122e-05	0.0126715	19.8928	1234.95	-0.37602	82.8226	-0.746899	58.9431
	25.7078	12.9741	9.22605	0.999346	0.998504	0.999302	0.75	0.25	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						
Jt17	LC6_LC_075	0.0	Bm126_2	Failed(geo)	0.02	Uj	gamma theta	ISO19902 joint	ver_nodi_4.run(1)
		100% X	0.018	0.008	0.010	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	1	8.3125	20.4079	1	0
	0	7.44469e-07	0.0101946	5.03629	616.381	0.0714615	82.8226	-0.600899	58.9431
	12.8313	12.9741	9.22605	0.999336	0.998504	0.999302	0	1	0
	0	0	0	0	275000	-1	0.133	0.008	0.133
	0.008	0	0						