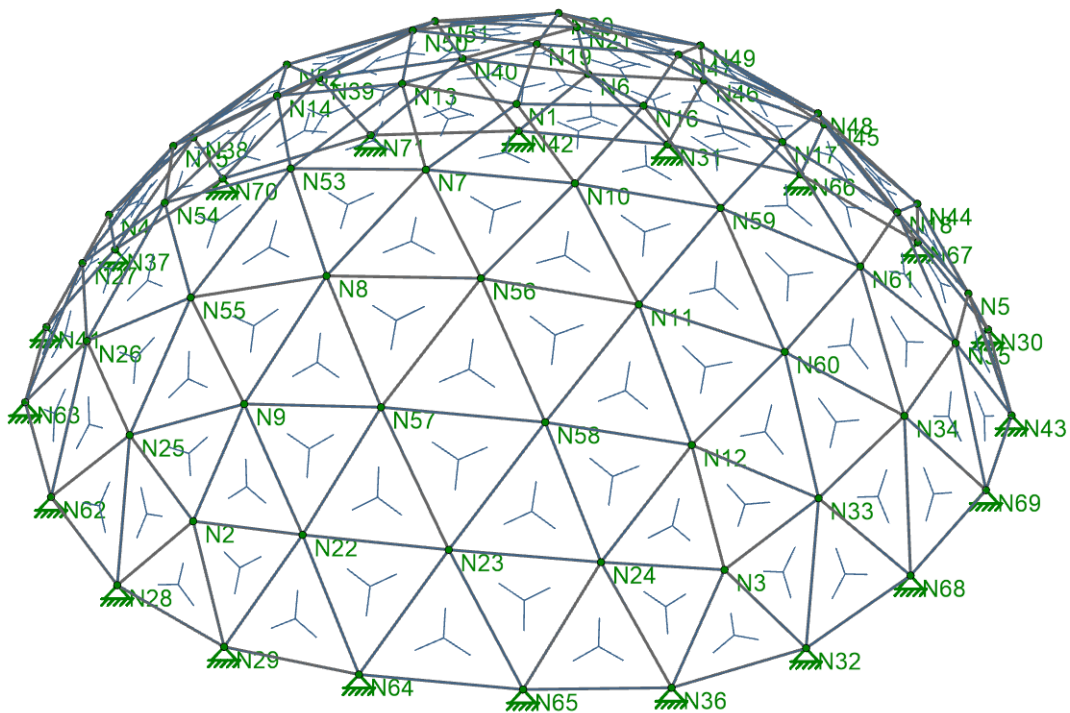
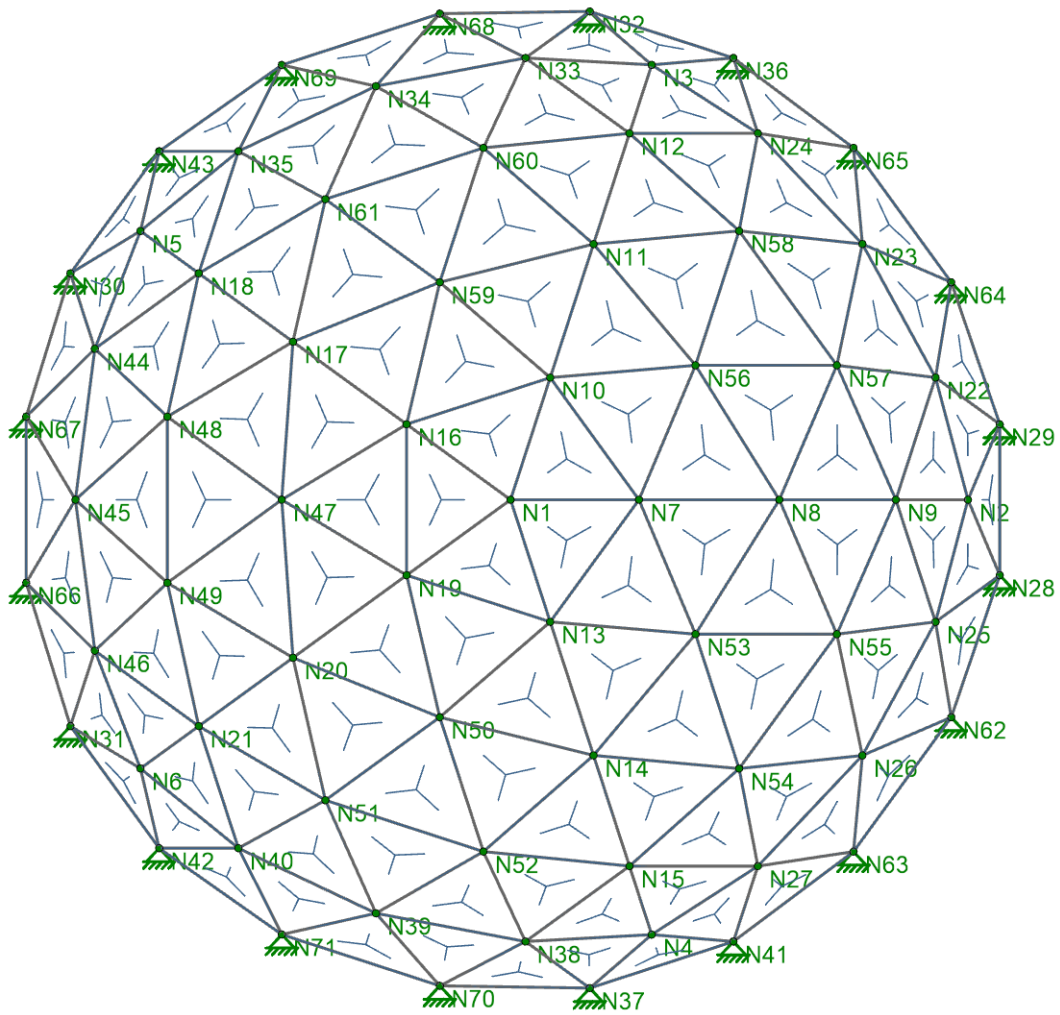


**REVIEWED
FOR
CODE
COMPLIANCE**

04/01/2022



		SK-1
		Feb 23, 2022
		42' dome.r3d



		SK-3
		Feb 23, 2022
		42' dome.r3d

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	0	20.437	0	
2	N2	0	9.139704	18.279409	
3	N3	17.39027	9.13449	5.640087	
4	N4	-17.39027	9.13449	5.640087	
5	N5	10.746311	9.132321	-14.7915	
6	N6	-10.746311	9.132321	-14.7915	
7	N7	0	19.782488	5.130706	
8	N8	0	17.386337	10.7418	
9	N9	0	13.439153	15.396757	
10	N10	4.883708	19.781598	1.583905	
11	N11	10.223121	17.382909	3.315607	
12	N12	14.650263	13.433712	4.751437	
13	N13	-4.883708	19.781598	1.583905	
14	N14	-10.223121	17.382909	3.315607	
15	N15	-14.650263	13.433712	4.751437	
16	N16	3.018545	19.781227	-4.154804	
17	N17	6.318355	17.381483	-8.696747	
18	N18	9.053749	13.431448	-12.461814	
19	N19	-3.018545	19.781227	-4.154804	
20	N20	-6.318355	17.381483	-8.696747	
21	N21	-9.053749	13.431448	-12.461814	
22	N22	4.88588	10.265516	16.982883	
23	N23	10.226388	10.743115	14.059781	
24	N24	14.652364	10.26182	9.883028	
25	N25	-4.88588	10.265516	16.982883	
26	N26	-10.226388	10.743115	14.059781	
27	N27	-14.652364	10.26182	9.883028	
28	N28	-3.019249	5.131576	19.5505	
29	N29	3.019249	5.131576	19.5505	
30	N30	9.053133	5.128961	-17.589927	
31	N31	-9.053133	5.128961	-17.589927	
32	N32	19.527925	5.128662	3.166691	
33	N33	17.665675	10.258599	0.596697	
34	N34	16.536616	10.736191	-5.380104	
35	N35	13.934232	10.257063	-10.876617	
36	N36	17.66555	5.129263	8.904493	
37	N37	-19.527925	5.128662	3.166691	
38	N38	-17.665675	10.258599	0.596697	
39	N39	-16.536616	10.736191	-5.380104	
40	N40	-13.934232	10.257063	-10.876617	
41	N41	-17.66555	5.129263	8.904493	
42	N42	-13.934133	5.128495	-14.043128	
43	N43	13.934133	5.128495	-14.043128	
44	N44	6.035234	10.257604	-16.614105	
45	N45	0	10.73643	-17.389653	
46	N46	-6.035234	10.257604	-16.614105	
47	N47	0	18.276882	-9.144756	
48	N48	3.321509	14.782608	-13.715431	
49	N49	-3.321509	14.782608	-13.715431	
50	N50	-8.696306	18.276769	-2.829299	
51	N51	-12.016368	14.782091	-7.400517	
52	N52	-14.069517	14.783096	-1.086157	
53	N53	-5.375364	18.280027	7.390336	
54	N54	-10.7509	14.787225	9.133843	
55	N55	-5.376329	14.789643	13.039651	
56	N56	5.375364	18.280027	7.390336	
57	N57	5.376329	14.789643	13.039651	
58	N58	10.7509	14.787225	9.133843	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
59	N59	8.696306	18.276769	-2.829299	
60	N60	14.069517	14.783096	-1.086157	
61	N61	12.016368	14.782091	-7.400517	
62	N62	-8.697868	5.646982	17.610498	
63	N63	-14.070678	5.645954	13.704386	
64	N64	8.697868	5.646982	17.610498	
65	N65	14.070678	5.645954	13.704386	
66	N66	-3.321235	5.644836	-19.359137	
67	N67	3.321235	5.644836	-19.359137	
68	N68	19.437591	5.643783	-2.828204	
69	N69	17.385652	5.643709	-9.14104	
70	N70	-19.437591	5.643783	-2.828204	
71	N71	-17.385652	5.643709	-9.14104	

Plate Surface Loads

	Plate Label	Direction	Magnitude [ksf, F]	Inactive
1	P112	PY	-0.075	Active
2	P111	PY	-0.075	Active
3	P106	PY	-0.075	Active
4	P120	PY	-0.075	Active
5	P105	PY	-0.075	Active
6	P101	PY	-0.075	Active
7	P108	PY	-0.075	Active
8	P113	PY	-0.075	Active
9	P96	PY	-0.075	Active
10	P95	PY	-0.075	Active
11	P93	PY	-0.075	Active
12	P89	PY	-0.075	Active
13	P103	PY	-0.075	Active
14	P115	PY	-0.075	Active
15	P87	PY	-0.075	Active
16	P84	PY	-0.075	Active
17	P100	PY	-0.075	Active
18	P82	PY	-0.075	Active
19	P79	PY	-0.075	Active
20	P78	PY	-0.075	Active
21	P94	PY	-0.075	Active
22	P98	PY	-0.075	Active
23	P73	PY	-0.075	Active
24	P70	PY	-0.075	Active
25	P69	PY	-0.075	Active
26	P68	PY	-0.075	Active
27	P67	PY	-0.075	Active
28	P74	PY	-0.075	Active
29	P66	PY	-0.075	Active
30	P117	PY	-0.075	Active
31	P64	PY	-0.075	Active
32	P60	PY	-0.075	Active
33	P72	PY	-0.075	Active
34	P56	PY	-0.075	Active
35	P55	PY	-0.075	Active
36	P44	PY	-0.075	Active
37	P42	PY	-0.075	Active
38	P40	PY	-0.075	Active
39	P38	PY	-0.075	Active
40	P88	PY	-0.075	Active
41	P43	PY	-0.075	Active
42	P65	PY	-0.075	Active
43	P35	PY	-0.075	Active
44	P34	PY	-0.075	Active
45	P61	PY	-0.075	Active
46	P33	PY	-0.075	Active
47	P107	PY	-0.075	Active
48	P97	PY	-0.075	Active
49	P36	PY	-0.075	Active
50	P51	PY	-0.075	Active
51	P59	PY	-0.075	Active
52	P81	PY	-0.075	Active
53	P104	PY	-0.075	Active
54	P71	PY	-0.075	Active
55	P83	PY	-0.075	Active
56	P77	PY	-0.075	Active
57	P99	PY	-0.075	Active
58	P32	PY	-0.075	Active

Plate Surface Loads (Continued)

	Plate Label	Direction	Magnitude [ksf, F]	Inactive
59	P31	PY	-0.075	Active
60	P118	PY	-0.075	Active
61	P91	PY	-0.075	Active
62	P62	PY	-0.075	Active
63	P49	PY	-0.075	Active
64	P90	PY	-0.075	Active
65	P85	PY	-0.075	Active
66	P119	PY	-0.075	Active
67	P29	PY	-0.075	Active
68	P30	PY	-0.075	Active
69	P27	PY	-0.075	Active
70	P26	PY	-0.075	Active
71	P75	PY	-0.075	Active
72	P25	PY	-0.075	Active
73	P110	PY	-0.075	Active
74	P22	PY	-0.075	Active
75	P19	PY	-0.075	Active
76	P18	PY	-0.075	Active
77	P24	PY	-0.075	Active
78	P63	PY	-0.075	Active
79	P86	PY	-0.075	Active
80	P15	PY	-0.075	Active
81	P28	PY	-0.075	Active
82	P37	PY	-0.075	Active
83	P116	PY	-0.075	Active
84	P14	PY	-0.075	Active
85	P13	PY	-0.075	Active
86	P17	PY	-0.075	Active
87	P39	PY	-0.075	Active
88	P12	PY	-0.075	Active
89	P54	PY	-0.075	Active
90	P11	PY	-0.075	Active
91	P23	PY	-0.075	Active
92	P10	PY	-0.075	Active
93	P16	PY	-0.075	Active
94	P46	PY	-0.075	Active
95	P57	PY	-0.075	Active
96	P41	PY	-0.075	Active
97	P7	PY	-0.075	Active
98	P52	PY	-0.075	Active
99	P6	PY	-0.075	Active
100	P92	PY	-0.075	Active
101	P114	PY	-0.075	Active
102	P50	PY	-0.075	Active
103	P45	PY	-0.075	Active
104	P102	PY	-0.075	Active
105	P21	PY	-0.075	Active
106	P58	PY	-0.075	Active
107	P9	PY	-0.075	Active
108	P4	PY	-0.075	Active
109	P5	PY	-0.075	Active
110	P48	PY	-0.075	Active
111	P109	PY	-0.075	Active
112	P53	PY	-0.075	Active
113	P3	PY	-0.075	Active
114	P2	PY	-0.075	Active
115	P76	PY	-0.075	Active
116	P80	PY	-0.075	Active

Plate Surface Loads (Continued)

	Plate Label	Direction	Magnitude [ksf, F]	Inactive
117	P47	PY	-0.075	Active
118	P1	PY	-0.075	Active
119	P8	PY	-0.075	Active
120	P20	PY	-0.075	Active

RISAtech.JointReactionResultsGridViewModel

	LC	Node Label	X [k]	Y [k]	Z [k]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	1	N36	-2.051	5.501	-0.573	0	0	0
2	1	N32	-1.984	5.499	-0.731	0	0	0
3	1	N68	-2.673	6.329	0.386	0	0	0
4	1	N69	-2.376	6.341	1.246	0	0	0
5	1	N43	-1.177	5.502	1.77	0	0	0
6	1	N65	-1.922	6.344	-1.874	0	0	0
7	1	N64	-1.193	6.334	-2.429	0	0	0
8	1	N29	0.079	5.505	-2.112	0	0	0
9	1	N28	-0.083	5.503	-2.13	0	0	0
10	1	N62	1.187	6.346	-2.407	0	0	0
11	1	N63	1.944	6.332	-1.887	0	0	0
12	1	N41	2.033	5.504	-0.57	0	0	0
13	1	N37	1.994	5.497	-0.734	0	0	0
14	1	N70	2.661	6.339	0.38	0	0	0
15	1	N71	2.386	6.334	1.267	0	0	0
16	1	N42	1.177	5.498	1.76	0	0	0
17	1	N31	1.313	5.503	1.661	0	0	0
18	1	N66	0.46	6.341	2.657	0	0	0
19	1	N67	-0.469	6.338	2.653	0	0	0
20	1	N30	-1.306	5.498	1.668	0	0	0
21	1	Totals:	0	118.389	0			
22	1	COG (ft):	X: 0	Y: 13.833	Z: -0.001			

42' Dome - 24" Diameter Pier Capacity

End Bearing	3 ksf
Skin Friction	0 ksf
Embedment	4 ft

D (in)	Area (ft^2)	Circ (ft)	End (kips)	Friction (kips)	Pcap (kips)
24	3.14	6.28	9.42	0.00	9.42

9.42 kip capacity > 6.4
reaction from dome at
each pier - OK