CITY OF PORTLAND, MAINE RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/27/17

Tower Loading

Discrete Appurtenance Properties 1.2D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc.(ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a(DL) (lb)
272.0	Alcatel-Lucent B13	3	58	2.1	1.8	12.0	8.9	0.80	0.67	0.0	0.0	27.49	129	250
272.0	Alcatel-Lucent B25	3	51	2.1	1.8	12.0	7.2	0.80	0.67	0.0	0.0	27.49	129	220
272.0	Raycap RxxDC-3315-	2	21	2.5	1.6	15.7	10.3	0.80	0.67	0.0	0.0	27.49	101	62
272.0	Alcatel-Lucent B66a	3	67	2.7	2.2	12.0	6.8	0.80	0.67	0.0	0.0	27.49	160	289
272.0	Commscope SBNHH-	12	50	11.5	8.1	11.9	7.1	0.80	0.70	0.0	0.0	27.49	2881	857
272.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	27.49	1009	1728
270.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	27.43	560	720
260.0	Andrew	3	11	0.5	0.5	7.7	3.0	0.80	0.50	0.0	0.0	27.14	21	48
260.0	RFS ATMA4P4DBP-	3	16	0.9	0.9	8.0	4.9	0.80	0.50	0.0	0.0	27.14	39	69
260.0	Ericsson Radio 4478	3	60	1.6	1.3	13.2	7.4	0.80	0.50	0.0	0.0	27.14	73	259
260.0	Radio Waves G3-2.4	1	25	4.2	3.0	36.0	0.0	0.80	1.00	0.0	0.0	27.14	124	36
260.0	RFS APX16DWV-	3	40	6.1	4.4	13.0	3.1	0.80	0.60	0.0	0.0	27.14	323	171
260.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	27.14	801	1296
260.0	RFS APXVAA24_43-	3	101	20.3	8.0	24.0	8.5	0.80	0.63	0.0	0.0	27.14	1131	438
239.0	RAC 8' Ice Shield	1	600	6.0	8.0	60.0	24.0	1.00	1.00	0.0	0.0	26.49	216	864
230.0	Motorola PTP 45600	1	12	2.0	1.2	14.5	3.7	1.00	0.50	0.0	0.0	26.20	36	17
230.0	Radio Waves HPD6-	1	405	44.0	6.0	0.0	0.0	1.00	1.00	0.0	0.0	26.20	1568	583
215.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	25.70	524	720
206.0	KMW HB-X-WM-17-	3	16	1.0	1.3	7.3	3.7	0.80	0.76	0.0	0.0	25.39	61	69
206.0	KMW HB-X-WM-17-	3	30	2.0	4.0	7.3	7.3	0.80	1.00	0.0	0.0	25.39	162	130
206.0	Stand-Off	3	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	25.39	311	432
190.0	10' Omni	1	25	3.0	10.0	3.0	3.0	1.00	1.00	5.0	509.9	24.99	102	36
190.0	Stand-Off	1	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	24.81	101	144
188.0	Raycap RUSDC-6267-	1	16	2.5	1.6	16.1	5.6	0.80	0.67	0.0	0.0	24.73	46	23
188.0	Ericsson RRUS-11	3	50	2.6	1.5	17.3	7.2	0.80	0.67	0.0	0.0	24.73	139	216
188.0	KMW AM-X-CD-17-	6	31	5.0	4.0	11.8	6.0	0.80	0.66	0.0	0.0	24.73	532	266
188.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	24.73	730	1296
170.0	10' Omni	1	25	3.0	10.0	3.0	3.0	1.00	1.00	5.0	494.4	24.23	99	36
170.0	Stand-Off	1	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	24.03	98	144
168.0	Stand-Off	1	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	23.95	98	144
168.0	TX RX Systems 421-	1	20	3.1	1.7	16.0	6.0	1.00	0.50	3.0	152.7	24.07	51	29
168.0	Bird BA40-41-DIN	1	32	5.1	11.5	0.0	0.0	1.00	1.00	6.0	997.0	24.19	166	46
153.0	6' Ice Shield	1	450	3.9	1.2	100.0	48.0	1.00	1.00	0.0	0.0	23.32	123	648
142.0	Motorola PTP 45600	1	12	2.0	1.2	14.5	3.7	1.00	1.00	0.0	0.0	22.83	63	17
142.0	Radio Waves HPD4-	1	85	15.9	4.0	0.0	0.0	1.00	1.00	0.0	0.0	22.83	492	122
125.0	Stand-Off	1	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	22.01	90	144
125.0	Bird BA40-41-DIN	1	32	5.1	11.5	0.0	0.0	1.00	1.00	6.0	919.3	22.31	153	46
124.0	2' Omni	2	5	0.3	2.0	2.0	2.0	1.00	1.00	1.0	18.0	22.01	18	14
124.0	Stand-Off	1	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	21.96	90	144
99.00	2' Omni	1	5	0.3	2.0	2.0	2.0	1.00	1.00	1.0	8.4	20.65	8	7
99.00	Stand-Off	1	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	20.59	84	144
38.00	2" X 8" GPS	1	10	0.2	0.7	2.0	2.0	1.00	1.00	0.0	0.0	15.66	3	14
38.00	Stand-Off	1	100	3.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	15.66	64	144
	Totals	91	9086	598.8										

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc.(ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a(DL) (lb)
272.0	Alcatel-Lucent B13	3	184	3.1	1.8	12.0	8.9	0.80	0.67	0.0	0.0	4.58	19	703
272.0	Alcatel-Lucent B25	3	166	3.1	1.8	12.0	7.2	0.80	0.67	0.0	0.0	4.58	19	636
272.0	Raycap RxxDC-3315-	2	167	3.5	1.6	15.7	10.3	0.80	0.67	0.0	0.0	4.58	14	411