



REMOVABLE SIGN PANEL FRAME (WEIGHT - kg) *
(FOR OVERHEAD FORMED PANEL)

PANEL LENGTH	PANEL DEPTH - METERS							
	1.27	1.52	1.78	2.03	2.29	2.54	2.79	3.05
1.22	37	40	43	46	49	52	54	57
1.83	58	63	68	73	78	83	88	93
2.44	64	69	74	79	85	90	95	100
3.05	83	90	97	104	112	119	127	134
3.66	89	97	104	111	118	126	133	141
4.27	107	117	127	136	146	156	165	175
4.88	114	123	133	143	152	162	172	181
5.49	134	146	158	170	181	194	206	218
6.10	141	152	165	176	188	201	212	224
6.71	163	178	193	207	222	237	252	266
7.31	170	185	199	214	229	244	259	273
7.92	188	205	222	239	256	273	290	307
8.53	196	214	230	248	264	282	299	316
9.14	216	236	255	274	293	313	332	352
9.75	235	256	278	299	321	342	364	386
10.36	243	264	286	308	329	351	373	394
10.97	261	285	309	333	359	381	405	429
11.58	268	292	316	340	363	387	411	435
12.19	274	298	323	346	370	394	418	442

* Includes frame and attaching \angle s

MOUNTING BEAMS ON OVERHEAD SIGN TRUSS (WEIGHT - kg)
(FOR LAMINATED PANEL TYPE A)

PANEL LENGTH		PANEL DEPTH - METERS							
		1.27	1.52	1.78	2.03	2.29	2.54	2.79	3.05
1.22	TO 4.6	36	42	48	54	59	65	70	76
4.7	TO 7.3	54	63	72	80	88	97	106	114
7.4	TO 10.0	73	84	95	107	118	129	141	152
10.1	TO 12.2	91	105	119	133	147	162	176	190

POST QUANTITIES (WEIGHT - kg)

POST TYPE	PANEL DEPTH - mm								Column "A" kg/m
	1270	1524	1778	2032	2286	2540	2794	3048	
II	765	792	819	847	874	901	901	901	107.1
III	878	909	941	972	1003	1034	1034	1034	123.0
IV	992	1027	1062	1097	1133	1168	1168	1168	138.9
V	1105	1144	1183	1223	1262	1301	1301	1301	154.8
VI	1332	1379	1426	1474	1521	1568	1568	1568	186.5
VII	1975	2046	2116	2187	2257	2327	2327	2327	276.8
VIII & IX				2796	2886	2976	2976	2976	353.9

- NOTES:**
1. Post quantities are based on "h" = 5.72 m. Column "A" kg/m to be added or subtracted from weights shown on table.
 2. Walkway assembly includes grating, brackets, safety railing, light fixture supports and all fittings.

FOUNDATION QUANTITIES FOR ONE SPREAD FOOTING

POST TYPE	BAR REINF STEEL, kg	CLASS "A" CONC, m ³	STRUCT EXCAV, m ³	STRUCT BACKFILL, m ³
II	1553	13.9	38.7	24.7
III	1612	14.8	41.4	26.7
IV	1612	14.8	41.4	26.7
V	2198	15.8	44.6	28.8
VI	2575	18.3	50.5	32.3
VII	2655	19.2	53.5	34.3
VIII	2679	20.1	56.5	36.4
IX	2679	20.1	56.5	36.4

Note: Quantities are based on a spread footing and a 2 m pedestal

JUNCTURE CONNECTIONS
UPPER & LOWER CHORD CONNECTIONS (CAP PLATE & RING, LOWER SEAT PLATE, POST PLATES & POST GUSSETS AT JUNCTURE)

POST TYPE	FOR CHORD ANGLE L127x127x13	FOR CHORD ANGLE L152x152x13
	Total Wt (kg)	Total Wt (kg)
II	311	355
III	356	403
IV	404	454
V	455	509
VI	567	627
VII	567	627
VIII	567	627
IX	567	627

WEIGHT OF ANCHOR BOLTS w/NUTS A307

POST TYPE	TOTAL Wt BOLT & NUTS (kg EA POST)
II	303
III	303
IV	303
V	354
VI	517
VII	517
VIII	517
IX	517

GUSSETS FOR POST BASE

POST TYPE	Wt (kg) EA POST
II	57
III	57
IV	57
V	57
VI	82
VII	82
VIII	82
IX	82

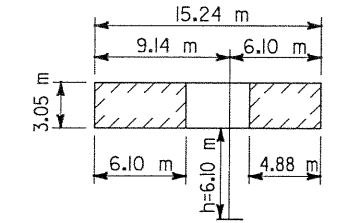
BASE PLATE

POST TYPE	Wt (kg) EA POST
II	234
III	234
IV	234
V	234
VI	404
VII	404
VIII	566
IX	566

Post Type	Specification of pipe post	kg/m
II	Pipe NPS 14 x 12.7 TK	107
III	Pipe NPS 16 x 12.7 TK	123
IV	Pipe NPS 18 x 12.7 TK	138.9
V	Pipe NPS 20 x 12.7 TK	154.7
VI	Pipe NPS 24 x 12.7 TK	186.6
VII	Pipe NPS 24 x 19.0 TK	276.8
VIII	Pipe NPS 24 x 24.6 TK	354
IX	Pipe NPS 24 x 24.6 TK	354

Given :

- Sign panel depth = 3.05 m
- Length of frame = 15.24 m
- Sign panel length = 6.10 m
- Sign panel length = 4.88 m
- Post = TYPE VIII
- Walkway assembly = 111.6 kg/m
- Chord angle = L152x152x13



EXAMPLE

REMOVABLE SIGN PANEL FRAME

Sign frame	= 4016 kg
Removable sign panel frame (6.1 m)	= 224 kg
Removable sign panel frame (4.88 m)	= 181 kg
Post = 2976 + (6.1 - 5.72) x 353.9	= 3110 kg
Walkway assembly 15.24x111.6 kg/m	= 1701 kg
Juncture connection Type VIII	= 627 kg
Anchor bolt & nut Type VIII	= 517 kg
Base plate gussets Type VIII	= 82 kg
Base plate Type VIII	= 566 kg
Sub-total	= 11024 kg
3/2% for galvanizing	= 386 kg
Total	= 11410 kg
Use	= 11410 kg

LAMINATED SIGN PANEL MOUNTING I-BEAM

Sign frame	= 4016 kg
Mounting I-Beam (6.1 m)	= 114 kg
Mounting I-Beam (4.88 m)	= 114 kg
Post = 2976 + (6.1 - 5.72) x 353.9	= 3110 kg
Walkway assembly 15.24 x 111.6 kg/m	= 1701 kg
Juncture connection Type VIII	= 627 kg
Anchor bolt & nut Type VIII	= 517 kg
Base plate gussets Type VIII	= 82 kg
Base plate Type VIII	= 566 kg
Sub-total	= 10847 kg
3/2% for galvanizing	= 380 kg
Total	= 11227 kg
Use	= 11230 kg

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

THIS SHEET NOT A PART OF CONTRACT PLANS

OVERHEAD SIGNS-TRUSS SINGLE POST TYPE

QUANTITIES **10**