

Adjustable Ground Mount Ballast Table

Base Wind Pressure									
0.1 kPa	0.2 kPa	0.3 kPa	0.4 kPa	0.5 kPa	0.6 kPa	0.7 kPa	0.8 kPa	0.9 kPa	1.0 kPa
250mm x 250mm x 3000mm	300mm x 300mm x 3000mm	350mm x 350mm x 3000mm	400mm x 400mm x 3000mm	450mm x 450mm x 3000mm	500mm x 500mm x 3000mm	550mm x 550mm x 3000mm	600mm x 600mm x 3000mm	650mm x 650mm x 3000mm	700mm x 700mm x 3000mm
10" x 10" x 118"	12" x 12" x 118"	14" x 14" x 118"	16" x 16" x 118"	18" x 18" x 118"	20" x 20" x 118"	22" x 22" x 118"	24" x 24" x 118"	26" x 26" x 118"	28" x 28" x 118"

The ballast up to 500x500 to have (4) longitudinal 15M and 10M stirrups at 400 o.c

The ballast from 600x600 and up to have (6) longitudinal 15M and 10M stirrups at 400 o.c

Concrete Compresive Strength = 20 Mpa

Allowable Soil Bearing Capacity=100 kPa

Ground Preparation = 4" of Compacted Gravel

General Notes:

1. DESIGN AS PER CAN/CSA A23 DESIGN OF CONCRETE STRUCTURES STANDARD

2. CONTRACTOR IS RESPONSIBLE FOR PROPER CONSTRUCTION OF CONCRETE BALLAST AND IT'S GRAVEL BASE

3. ALL REINFORCEMENT TO BE GRADE 400 BILLET-STEEL BARS CONFORMING TO CSA G30.18

4. BALLAST DESIGN BASED ON q50 HOURLY WIND PRESSURE UP TO 20.88PSF (1.0 kPa). IN ACCORDANCE WITH STRUCTURAL COMMENTARIES FOR NBCC 2015 FIGURE I-12 AND ONTARIO BUILDING CODE 2012 SECTION 4.1.7.1.

DESIGN PARAMETERS;

Cf=2.0, Figure I-12 (STRUCT COMM PART 4 DIV B)

Cn=1, Figure I-12 (STRUCT COMM PART 4 DIV B)

Ce=0.9, (Open Terrain). OBC 2012

Cg=2

DENSITY OF CONCRETE=2,400 kg/m^3

SF=1.5