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F575/19/7200/GM

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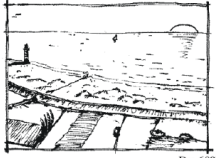
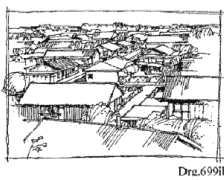

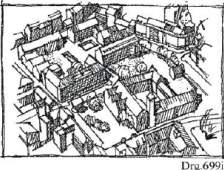
KD Solar
Ground Mount Installation

DESIGN CHECK: GROUND MOUNTS SOLAR PANELS

The ground mount design as shown on design schematics below have been reviewed and I certify that the ground mount system for the solar panels is adequate to withstand the design loads as recommended by the design code SANS 10160 with the exception as noted below.

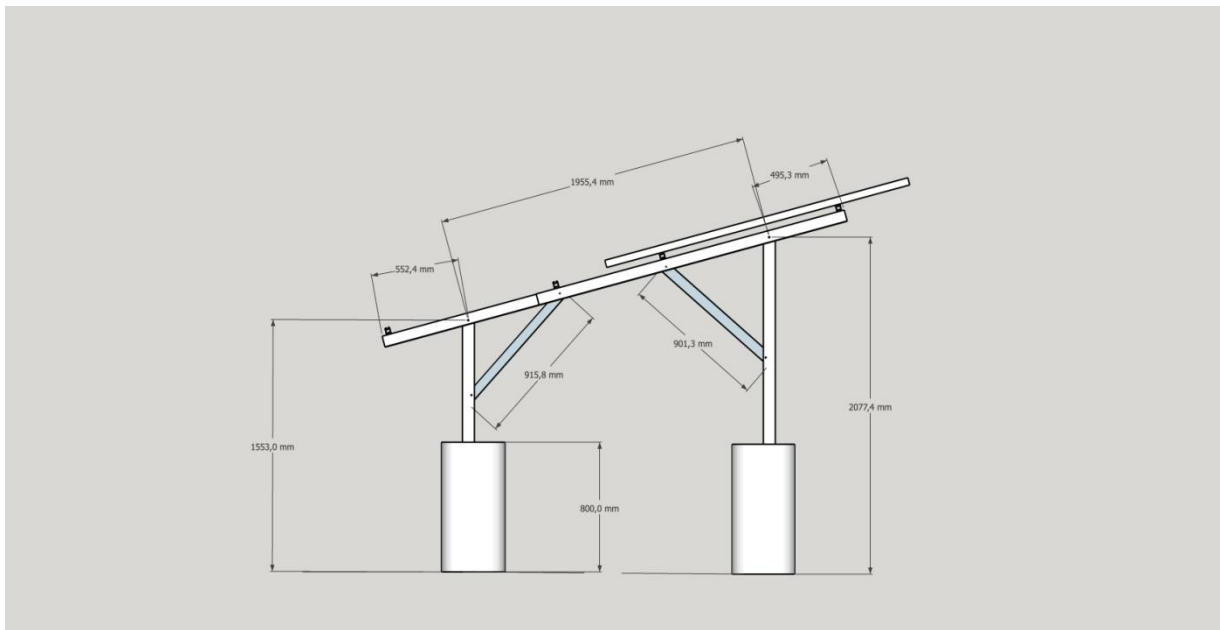
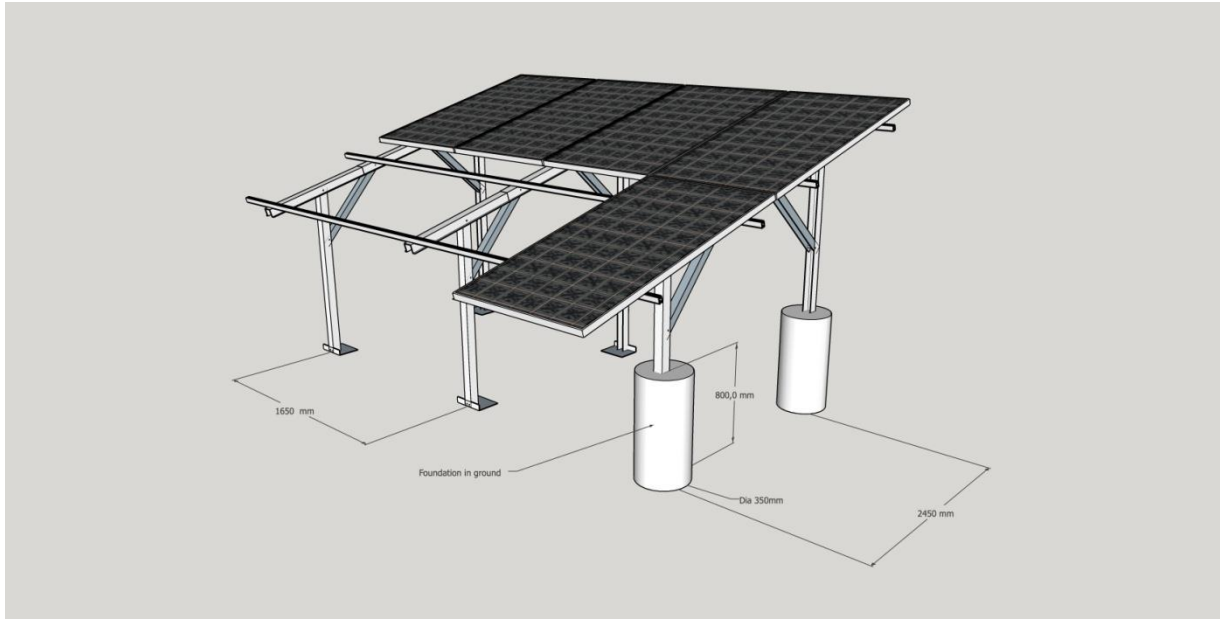
Installations where the ground mounts are placed in locations that are described as Category A in the SANS10160 design code; a site-specific design check should be done by a qualified engineer. Typical locations that fall in Category A would be open sea coasts, flat treeless plains and edges of escarpments. If the ground mount is located in a Category A location, additional bracing and/or a larger concrete footing will be required.

Terrain Categories

Category	Description	Illustration			
A	Flat horizontal terrain with negligible vegetation and without any obstacles (for example coastal areas exposed to open sea or large lakes)	 Drg.699a	C	Area with regular cover of vegetation or buildings or with isolated obstacles with separations of maximum 20 obstacle heights (such as villages, suburban terrain and permanent forest)	 Drg.699b
B	Area with low vegetation such as grass and isolated obstacles (for example trees and buildings) with separations of at least 20 obstacle heights	 Drg.699a	D	Area in which at least 15 % of the surface is covered with buildings and their average height exceeds 15 m	 Drg.699b

NOTE 1 A certain amount of a reduction in loading for category D can be obtained (see 7.3.5) by using a procedure described in B.5, which takes into account the vertical displacement of the peak wind pressure profile, within an environment with closely spaced obstructions.

Graeme Parker Pr. Eng. B.Sc. Hons (Ci



Yours faithfully,

Graeme Parker
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