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AS/NZS1170.2 Certification for WinTop Concrete Foundation Carport System

Within Wind Region A(0-5)

For Xiamen Wintop New Energy Tech. Co., Ltd
RM511, No.189 Fanghu West Road
Sihai Smart Zone, Xiamen
Fujian 361006, China

By Bianca Hongbo Liu

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Xiamen Wintop New Energy Tech. Co., Ltd
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RE: WinTop Concrete Foundation Carport System with panels 1708x1133mm @ 5 degrees , WR A(0-5) Terrain Category 2 - founded on Concrete Strip footing

Gamcorp Pty Ltd, being Structural Engineers within the meaning of Australian Building Regulations, have carried out a structural design check of the WinTop Concrete Foundation Carport System with panels 1708mmx1133mm within Australian wind region A(0-5), TC=2. The design check has been based on the information in the *WinTop Installation Manual for Concrete Foudnation Carport System* and drawings of the system components, provided by Xiamen Wintop New Energy Tech. Co., Ltd.

Component Description	**Part No**
Waterproof rail	R043
Normal rail	R035
Rail Splice	SR-0015
Water collection groove	U013
Support beam	B010
Column	L020
Middle Clamp	CM-8008
End Clamp	CE-8013
Grounding clip & lug	DP-0019 GL-2001
Column connections	AB-0025/0026, VH-0021/0022
Hold down bolt	FA-M12-0013

We find the WinTop Concrete Foundation Carport System, as shown in **Figure 1** to be structurally sufficient for Australian wind regions, based on the following conditions:

Wind Loads to AS/NZS1170.2:2021;

- Wind Terrain Category **2**
- Wind average recurrence interval of 200 years (ultimate)
- Wind region **A(0-5)**
- Md=**1.0**, Ms=**1.0**, Mt=**1.0**

Solar Panel **length 1.708m, width 1.133m**

An extra lock bolt is incorporated at the connection of column and base plate, as

shown in **Figure 2.**
Strip footing to be landed on the soil with min 60kPa allowable end bearing pressure
- Strip footing size **2.55m x 0.65m x 0.6m** (L x W x D)

Reference documents:
- WinTop installation manual for concrete foudnation carport system
- Drawing of the parts

Note: This certificate does not cover the assessment of shock loading.

Construction is to be carried out strictly in accordance with the instruction manual. This work was designed by **Bianca Hongbo Liu** in accordance with the provisions of Australian Building Regulations and in accordance with sound, widely accepted engineering principles. Should you need to clarify anything please contact the designer.

Yours faithfully,
Gamcorp Pty Ltd



Lena Van Spaandonk

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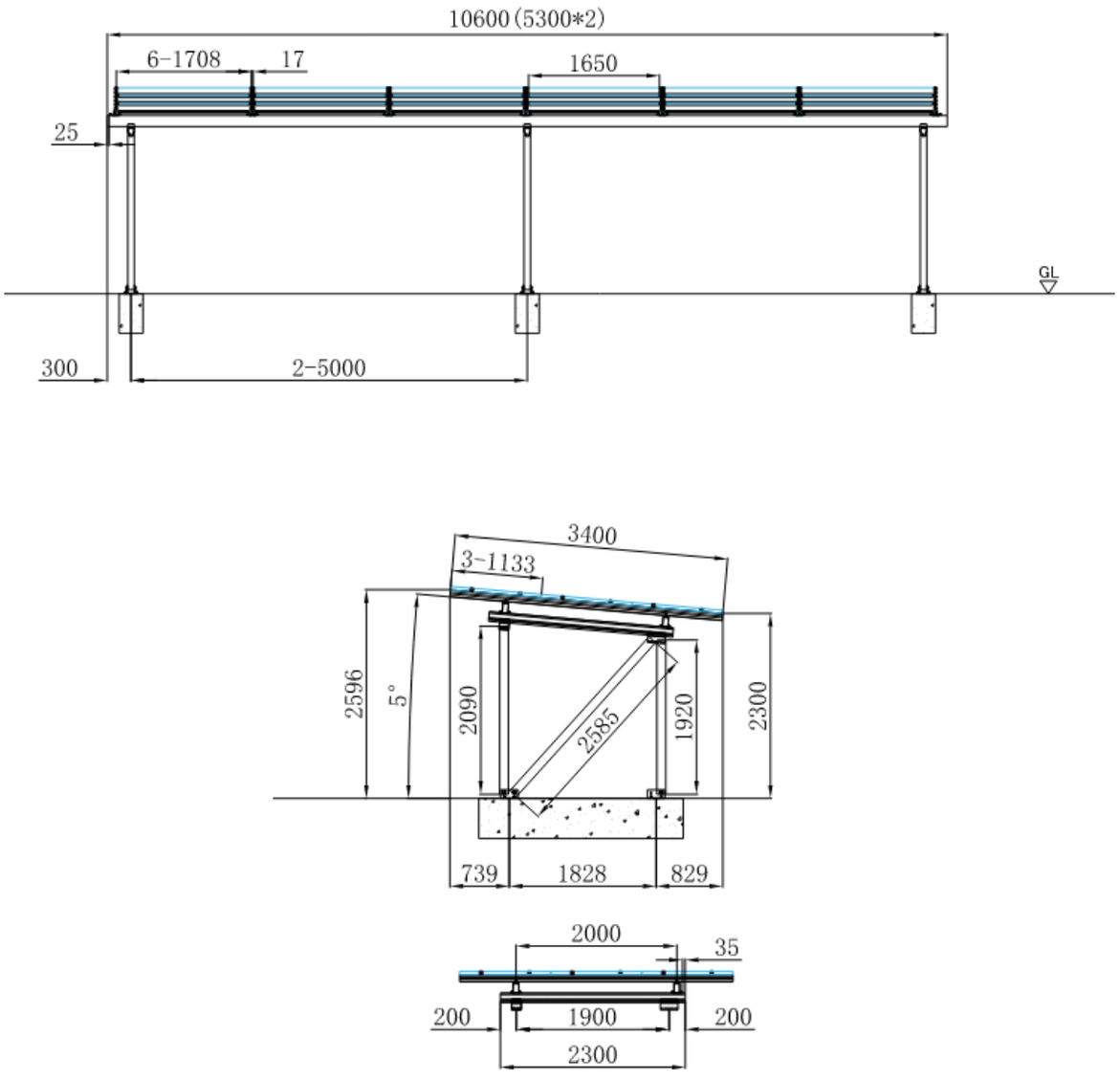


Figure 1 WinTop Concrete Foundation Carport System

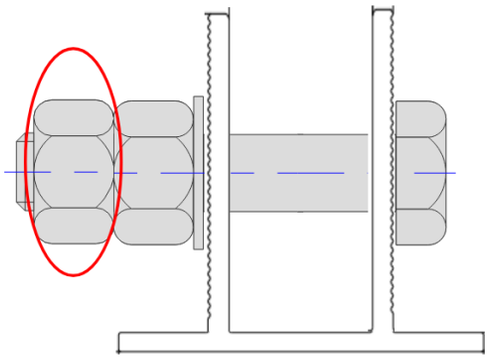


Figure 2 Extra lock bolt at the connection of column and base plate