ZND

Your Results:

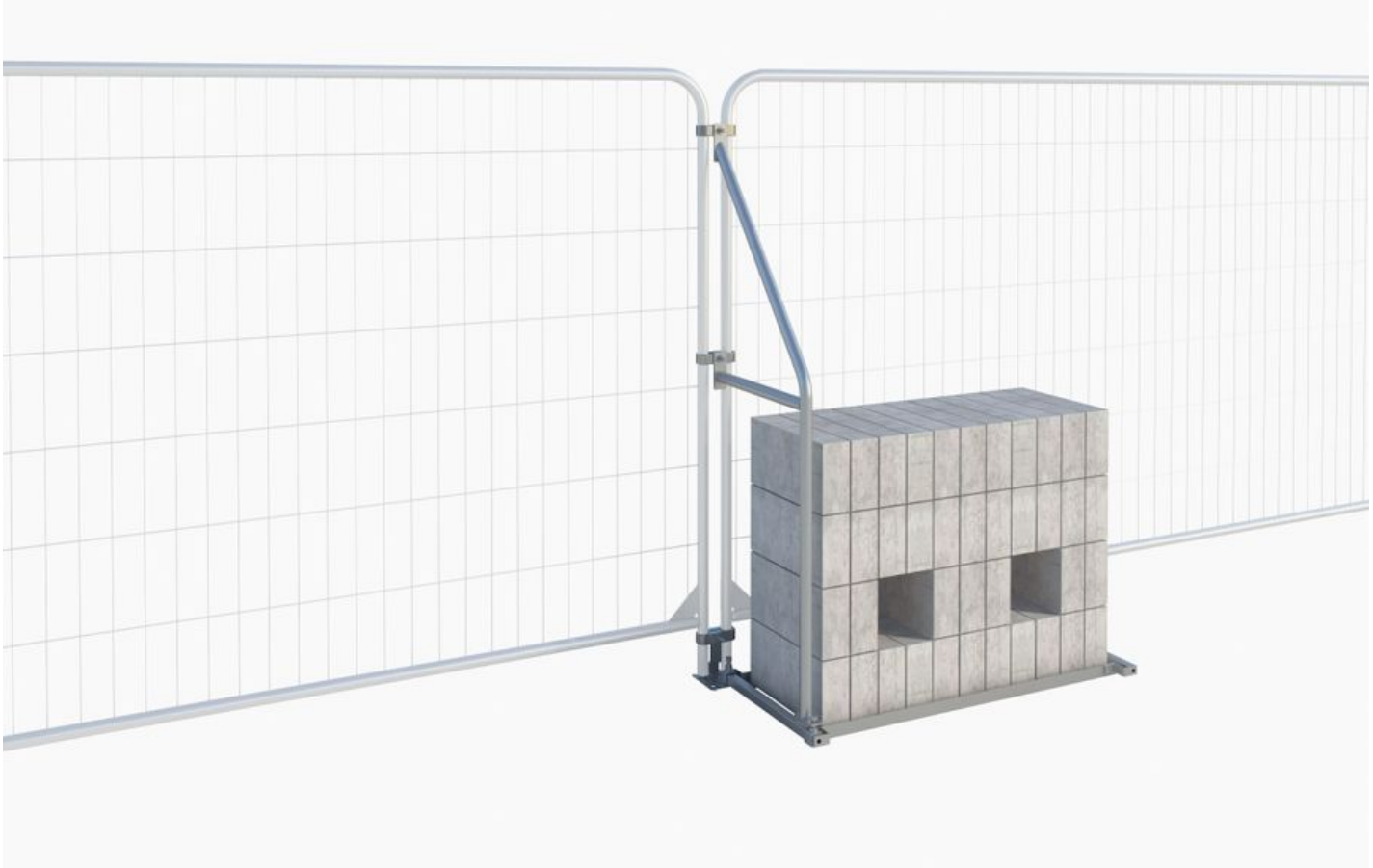
Big Foot Stabiliser – Reduced footprint (780 kg)

Max windspeed for your configuration

56.96 m/s ,127.41 mph

Success

This stabilisation meets your target wind speed. The product will be fully stabilised against the inputted wind speed.



Your Selections

Target Wind Speed
20 m/s

RT38 Standard
05553731

Factor of Safety
1 (0%)

Big Foot Stabiliser – Reduced footprint (780 kg)

ZND

Terms & Conditions:

1. DEFINITION OF TERMS USED IN THE ZND WIND SPEED RESISTANCE CALCULATOR

"Product Group" means either an open mesh fence panel, a hoarding sheet panel, a combination of open mesh and hoarding sheet in one panel or a pedestrian barrier.

"Above Ground Stabilisation" means stabiliser systems that have no components that penetrate into the ground.

"Below Ground Stabilisation" means stabiliser systems that use components that go into the ground as a means of securing the panels or barriers in position.

"Product Type" means the general construction of the panel or barriers that are in the "Product Group".

"Dimensions" of the "Product Type" are the dimensions used generally in the description of the "Product Type" and are not an exact measure of the product.

"Stabilisation" means the components or system used to keep the fence or hoarding panels vertical. These stabilisers offer resistance to the wind loadings. The method of stabilisation can be concrete or plastic blocks used on their own with no stabilisers or it can be a combination of blocks used with different stabiliser types.

"Factor of Safety" means the value that can be applied to the resultant wind loadings (Limit of Stability) This factor if chosen is to suit customer or site standards.

"Open Side" means the side of the panel installation where the general public will be.

"Site Side" means the opposite side of the panel installation to where the general public will be.

"Limit of Stability" means the point at which the panel installation becomes unstable .The figure is the lowest value between overturning and sliding.

"ZND" means ZND UK Limited.

2. TECHNICAL BACKGROUND

2.1 The ZND Wind Speed Resistance Calculator has been specifically set up to check the suitability of products supplied solely by ZND.

2.2 It is assumed that the products covered in this ZND Wind Speed Resistance Calculator will be installed correctly and in accordance with suppliers guidelines to suit specific site requirements.

2.3 At this stage the ZND Wind Speed Resistance Calculator only covers Above Ground Stabilisation products and does not cover Below Ground Stabilisation systems.

2.4 The calculations used to determine the results in this ZND Wind Speed Resistance Calculator are theoretical and are not currently backed up by actual field tests. All calculations are available upon written request.

2.5 All calculations are based on the use of the ZND Gripper Coupler.

2.6 The "Limit of Stability" is the term used to describe the point at which the product installation becomes unstable (either through overturning or sliding) based on first principles of:- For overturning (restoring moment = overturning moment) For sliding (total mass x co-efficient of drag for sliding) The "Limit of Stability" is taken as the lower of the 2 results, the resultant wind speed at either the "Open Side" or "Site Side".

2.7 Each product and Stabilisation system develops its own unique restoring moment, to which the individual "Limit of Stability" is obtained.

2.8 Within the calculations a friction coefficient of sliding of 0.7 has been used where a plastic or concrete foot is used and a friction coefficient of sliding of 0.8 has been used where a special design of foot with integral grippers is used. These are empirical factors based on experience. Additional calculations can be provided using different factors if requested.

2.9 It has been assumed that no factors relating to ground conditions have been applied to the calculations and that the ground is taken as being level with no adverse undulations. Customers are welcome to apply any known factors relating to ground conditions as long as they are aware as to the effects of applying these factors. ZND take no responsibility for any results taken from this ZND Wind Speed Resistance Calculator which are then modified using any additional factors. ZND are happy to look at producing calculations taking into account ground conditions to suit specific customer sites upon written request.

2.10 A factor of safety ranging from 1.0 (0%) up to 2.0 (100%) can also be applied to the results by using the Factor of Safety pull down menu to suit different customer and site requirements. Please note that when a factor of safety of 1.0 (0%) is used this is the point where the products are starting to become unstable due to either wanting to slide or overturn, therefore the ZND Wind Resistance Calculator defaults to a factor of safety of 1.2 (20%).

2.11 It is the customers responsibility to choose their own Factor of Safety.

2.12 A charge will be made for any additional requested calculations. A quotation for the work will be given upon request.

3. WARNINGS/DISCLAIMERS

3.1 Although great care has been taken to ensure, to the best of our knowledge, that the data and contents of this publication are accurate, ZND does not accept responsibility for errors or for information which is found to be misleading. Suggestions for or descriptions of the end use or application of products or methods of assembly are for information only and ZND accept no liability in respect thereof.

3.2 Nothing contained in this information or any other communication made between ZND or its representatives and any party or part thereof shall constitute an agreement, contract or representation between ZND and any other party. Use of the ZND Wind Speed Resistance Calculator does not imply the existence of a contract or commitment by or with ZND for any purpose.

3.3 ZND reserves the right to change any aspect of, or cease provision of the ZND Wind Speed Resistance Calculator at any time.

3.4 This information does not purport to contain all of the information which you may require to calculate the correct selection of products. Whilst ZND has taken all reasonable steps to ensure, that the facts which are contained in this document in relation to the ZND Wind Speed Resistance Calculator are true and accurate in all material respects, ZND does not make any representation or warranty as to the accuracy or completeness or otherwise of the ZND Wind Speed Resistance Calculator, or the reasonableness of any assumptions on which the ZND Wind Speed Resistance Calculator may be based. All information supplied by ZND is subject to the user's own due diligence. ZND accepts no liability to respondents whatsoever and however arising and whether resulting from the use of the ZND Wind Speed Resistance Calculator, or any omissions from or deficiencies in the ZND Wind Speed Resistance Calculator or this information.

3.5 The ZND Wind Speed Resistance Calculator is owned by ZND and all intellectual property rights relating to the ZND Wind Speed Resistance Calculator belong to ZND and must not be copied by any third party. ZND may exclude any users from using the ZND Wind Speed Resistance Calculator who have been found to be in breach of ZND's intellectual property rights and may pursue any remedy or take any other action for breach as it considers appropriate.

3.6 ZND may use the information included in a user's calculation for any reasonable purpose connected with the ZND Wind Speed Resistance Calculator. In particular, for improvement of the ZND Wind Speed Resistance Calculator but undertakes not to reveal the identity of the provider of such information.

3.7 ZND is not responsible for the information given on any third party sites.