

Client: Burrows Graham

Project: 21048 Havant Bund

TensarTech NaturalGreen Landscape Bund

For Feasibility & Discussion

3m & 5m high, back to back TensarTech Landscape Bund - Section - 7 -7

Tensar
Structural Systems



IMPORTANT NOTES

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Method of analysis

The calculation method used to create this Application Suggestion is the simplified method of slices using a circular slip surface following the method given by Bishop (Geotechnique, Vol 5, No 1, 1955) modified to take into account the stabilising effect of layers of geogrid reinforcement

Reference TY221101

Date 1 Nov 2022

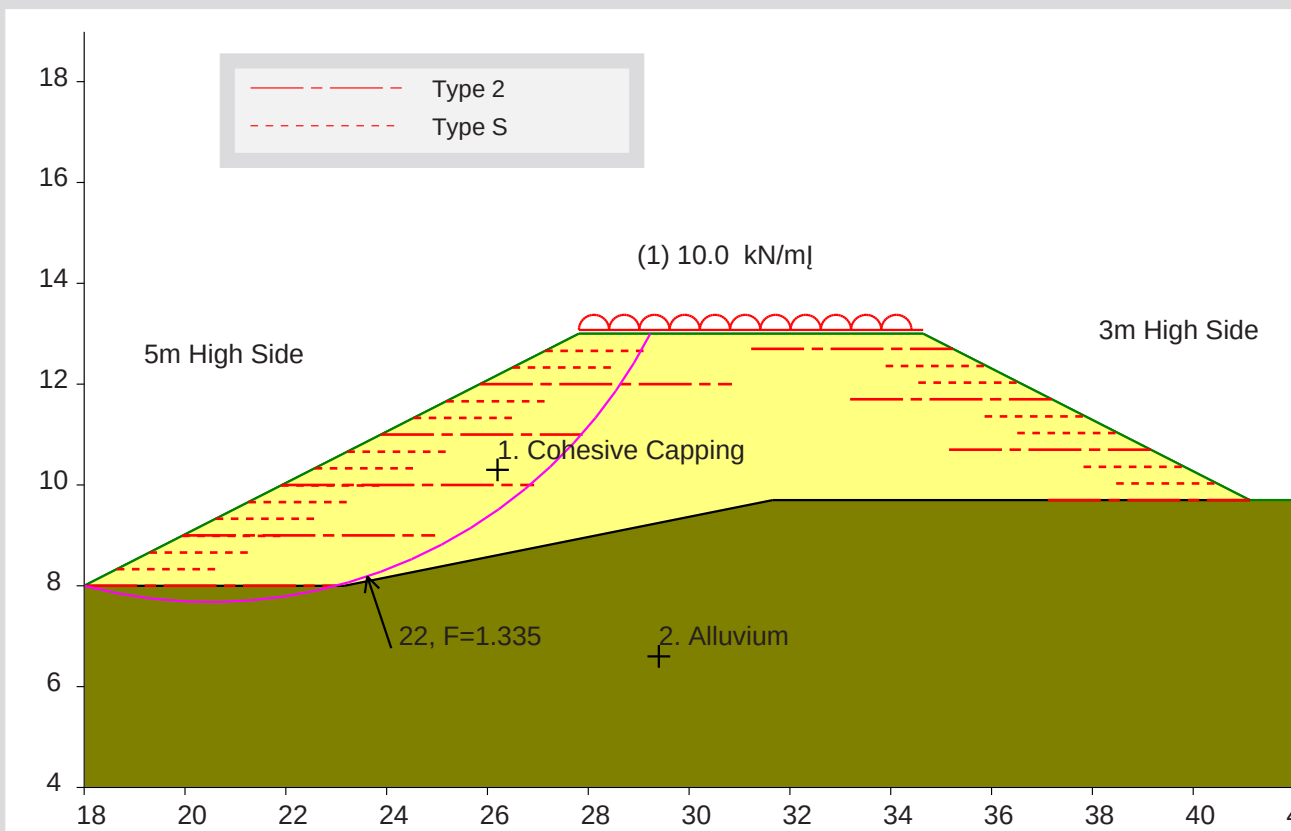
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Tel:
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Input data and Section

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Tensor Structural Systems

Static loading case

All dimensions in metres

Scale 1:150

Soil properties

Soil zone	Drained/ undrained	c' (kN/m ²)	φ' (°)	γ _{bulk,k} (kN/m ³)
1, Cohesive Capping	Drained	0.0	28.0	18.0
2, Alluvium	Drained	0.0	24.0	19.0

Soil strength values given above are characteristic values, design values are obtained by applying appropriate partial material factors. Design soil strength parameters are peak values

Surcharges

Load	Load acts from x (m)	To x (m)	Load (kN/m ²)	Live/Dead
1	27.813	34.643	10.00	Live

x values are measured from X=0

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Stability results	Circle number	Disturbing moment (kNm/m)	Resisting moment soil (kNm/m)	Resisting moment geogrids (kNm/m)	Factor of safety
Moments per linear metre of structure	22	1538	1965	89	1.335

Material quantities	Tensar product	Quantities per linear metre of structure	Material quantities allow for:
	Type 2 Type S	40.0 m 36.0 m	No allowance made for wastage

Further information relevant to this Design Analysis	Further information, specifications and bill of quantities descriptions for this Tensar Earth Retaining Structure are given in the following documents which form part of this Design Analysis		System overview Installation guide Case histories
	The current versions of these documents may be found by following the website link to "Tensar Documentation" in the Help menu of the TensarSlope program		
	For program users who do not have a link to the internet contact your nearest Tensar representative or distributor	Tensar International Limited software@tensar.co.uk	