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RECEIVED
By Lisa Walton at 4:04 pm, Oct 31, 2022

GENERAL

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. HORIZONTAL DATUM IS REFERENCED TO OSGB 1936 BRITISH NATIONAL GRID.
3. VERTICAL DATUM IS IN METRES, ORDNANCE DATUM.
4. SETTING OUT POINTS TO BE AGREED FOLLOWING DETAILED SURVEYS.

ROCK ARMOUR

ROCK GRADINGS ARE STANDARD GRADINGS AS DEFINED IN BS EN 13383-1 SECTION 4.2. IMPORTED ROCK SHALL BE SUPPLIED IN THE STANDARD GRADING CLASS WITH THE ASSOCIATED LIMITS AS DEFINED BELOW FOR THE RESPECTIVE GRADINGS. THE PARTICLE DENSITY SHALL BE NO LESS THAN 2600 kg/m³

40 - 200 kg

- ELL - THE MASS BELOW WHICH NO MORE THAN 5 AND 2 PERCENT PASSING BY MASS IS PERMITTED FOR HEAVY AND LIGHT/COARSE GRADINGS, RESPECTIVELY = 15 kg
- NLL - THE MASS BELOW WHICH NO MORE THAN 10 PER CENT PASSING BY MASS IS PERMITTED = 40 kg
- NUL - THE MASS BELOW WHICH NO LESS THAN 70 AND 90 PERCENT PASSING BY MASS IS PERMITTED FOR HEAVY/LIGHT AND COARSE GRADINGS, RESPECTIVELY = 200 kg
- EUL - THE MASS BELOW WHICH NO LESS THAN 97 AND 98 PERCENT PASSING BY MASS IS PERMITTED FOR HEAVY/LIGHT AND COARSE GRADINGS, RESPECTIVELY = 300 kg
- THE EFFECTIVE MEAN MASS, MEM (LOWER AND UPPER LIMITS) = 80 kg - 120 kg

1.0 - 3.0 T

- ELL - THE MASS BELOW WHICH NO MORE THAN 5 AND 2 PERCENT PASSING BY MASS IS PERMITTED FOR HEAVY AND LIGHT/COARSE GRADINGS, RESPECTIVELY = 700 kg
- NLL - THE MASS BELOW WHICH NO MORE THAN 10 PERCENT PASSING BY MASS IS PERMITTED = 1,000 kg
- NUL - THE MASS BELOW WHICH NO LESS THAN 70 AND 90 PERCENT PASSING BY MASS IS PERMITTED FOR HEAVY/LIGHT AND COARSE GRADINGS, RESPECTIVELY = 3,000 kg
- EUL - THE MASS BELOW WHICH NO LESS THAN 97 AND 98 PERCENT PASSING BY MASS IS PERMITTED FOR HEAVY/LIGHT AND COARSE GRADINGS, RESPECTIVELY = 4,500 kg
- THE EFFECTIVE MEAN MASS, MEM (LOWER AND UPPER LIMITS) = 1,700 kg - 2,100 kg

WHERE ROCK IS TO BE LOCALLY SOURCED THE ROCK SHALL ONLY BE USED WITH APPROVAL FROM THE ENGINEER AND THE FOLLOWING SHALL APPLY FOR INDIVIDUAL ROCKS:

- M MIN - 500 kg
- M MAX - 5000 kg

ARMOUR ROCK SHALL BE INDIVIDUALLY PLACED TO ACHIEVE A DENSE, FULLY INTERLOCKED ARMoured SLOPE SO THAT EACH ROCK IS SECURELY HELD IN PLACE BY ITS NEIGHBOURS. PLACING SHALL COMMENCE AT THE TOE AND PROCEED UPWARDS TOWARDS THE CREST. ROCKS SHALL BE LOWERED INTO PLACE INDIVIDUALLY.

TIDE TABLE

TIDE LEVELS	
mOD	
HAT	+3.40m
MHWS	+2.77m
MHWN	+1.44m
MLWN	-0.87m
MLWS	-2.18m
LAT	-2.82m

GEOTEXTILE

HPS12 OR EQUIVALENT

NONWOVEN GEOTEXTILE; STATIC PUNCTURE (CBR) 4 KN, PUSH THROUGH DISPLACEMENT 65 MM, TENSILE STRENGTH (MD/CMD) 25 KN/M, TENSILE ELONGATION (MD/CMD) 80%, CONE DROP 5 MM, PERMEABILITY M/S.

CHARACTERISTICS OF GEOTEXTILES SHALL BE DEFINED AND TESTED IN ACCORDANCE WITH BS EN 13253:2014. THE LABELLING OF THE ROLLS SHALL BE IN ACCORDANCE WITH EN 10320:1999.

FABRICS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

- THE MATERIAL SHALL NOT SUFFER ANY SIGNIFICANT CHANGE TO ITS PHYSICAL, CHEMICAL OR ENGINEERING PROPERTIES UNDER THE INFLUENCE OF SULPHATES, CHLORIDES, ACIDS AND ALKALIS IN THE FORMS AND CONCENTRATIONS IN WHICH THEY ARE PRESENT IN THE SOILS, SEAWATER AND GROUND WATER TO BE FOUND AT THE WORKSITE.
- THE MATERIAL SHALL BE PROOF AGAINST BACTERIAL ATTACK.
- THE MARINE CONTRACTOR SHALL ENSURE THAT FILTER FABRIC IS NOT EXPOSED TO DIRECT SUNLIGHT FOR MORE THAN THE NUMBER OF DAYS WRITTEN IN THE GEOTEXTILE CE CERTIFICATE IN ACCORDANCE WITH EN 13253:2014 ANNEX B, OR A MAXIMUM OF ONE DAY IF NOT TESTED.
- THE MATERIAL SHALL PERFORM ACCORDING TO SPECIFICATION AT WORKING TEMPERATURES UP TO 55°C. IT SHALL NOT BE PERMANENTLY IMPAIRED BY TEMPORARY EXPOSURE DURING CONSTRUCTION TO TEMPERATURES UP TO 60°C.
- FILTER FABRICS SHALL BE SUPPLIED IN ROLLS AT LEAST 4.5 M WIDE. ROLL LENGTHS SHALL BE SUCH THAT THEY CAN BE LAID IN ONE OPERATION WITHOUT JOINTING, IN EACH OF THE SEPARATE SLOPING AND HORIZONTAL LENGTHS INVOLVED. ROLLS OF APPROPRIATE LENGTHS SHALL BE SUPPLIED FOR THIS PURPOSE.

FILTER FABRIC SHALL BE PLACED AND LAPPED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. LAPS SHALL HAVE A MINIMUM WIDTH OF 1.0 M. WHERE THE FABRIC ABUTS A STRUCTURE, IT SHALL BE FOLDED UP AGAINST THE STRUCTURE BY A MINIMUM OF ONE LAP WIDTH. FILTER FABRIC SHALL BE SECURELY FASTENED DURING PLACING. GROUND ON WHICH FILTER FABRIC IS TO BE PLACED SHALL NOT CONTAIN UNDULATIONS WHICH MIGHT CAUSE DAMAGE TO THE FABRIC DURING PLACEMENT OF ROCK

ROCK BAGS

TYPE SPS 2T ROCK BAGS, SALIX AQUABAG OR SIMILAR APPROVED. MESH SIZE 25mm ; ROCK DIAMETER 40 - 80mm; DIAMETER = 2.1m; HEIGHT = 0.55m; VOLUME = 2.5m³; PARTICLE DENSITY MIN 2600 kg/m³.

GEOBAGS

GB600 WOVEN GEOBAGS WITH LIFTING STRAPS BY TENCATE OR SIMILAR APPROVED. OVERLAPPING PLACEMENT OF THE BAGS IS RECOMMENDED. GUIDELINES ON THE METHOD OF PLACEMENT WILL BE PROVIDED BY THE SUPPLIER.

FILL TO BE CLEAN AND SIEVED SITE WON SAND

GEOMAT

TENCATE GEOLON® ROBULON PP60 OR SIMILAR APPROVED. THE PRODUCT SHOULD BE MADE OF 100% HIGHLY DURABLE AND UV RESISTANT PP, WITH A 3 DIMENSIONAL STRUCTURE. THE MATT WILL BE PINNED FOR INSTALLATION AND 300mm COVER TO BE PROVIDED FOR PEDESTRIAN TRAFFIC.

03	ISSUED FOR APPROVAL	PGU	AGC	AUO	11 JUL 22
02	ISSUED FOR REVIEW	EZA	AGC	AUO	20 JAN 22
01	ISSUED FOR REVIEW	MAA	APO	AGC	20 AUG 21
REV	DRAWING STATUS	DRN	APPR	AUTH	DATE

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PROJECT:
**ISLES OF SCILLY
DESIGN SERVICES FOR OFF ISLANDS
COASTAL EROSION DEFENCE AND
DUNE MANAGEMENT**

DRAWING TITLE:
GENERAL NOTES

SCALE: NTS SHEET SIZE: A1
DRAWING No: DKR6499-000-D102 REV: 03

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