

PART 1 - GENERAL

- 1.1 SECTION INCLUDES
- .1 Section 320293 - Arboriculture work
 - .2 Section 329121 - Topsoil Placement and Grading
 - .3 Section 329222 - Terraseeding
 - .4 Section 329310 - Trees, Shrubs, and Ground Cover Planting
- 1.2 BASIS FOR PAYMENT
- .1 Include costs related to geotextiles in items where required.
- 1.3 REFERENCES
- .1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM D4491-99a, Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
 - .2 ASTM D4595-86 (2001), Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method.
 - .3 ASTM D4716-01, Test Method for Determining the (In-Plane) Flow Rate Per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head.
 - .4 ASTM D4751-99a, Standard Test Method for Determining Apparent Opening Size of a Geotextile.
 - .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-4.2 number 11.2-M89 (April 1997), Textile Test Methods - Bursting Strength - Ball Burst Test (Reaffirmation of September 1989)
 - .2 CAN/CGSB-148.1, Methods of Testing Geosynthetics (Complete Set).
 - .1 Number 2-M85, Methods of Testing Geosynthetics - Mass per Unit Area.
 - .2 Number 3-M85, Methods of Testing Geosynthetics - Thickness of geotextiles.
 - .3 Number 6.1-93, Methods of Testing Geosynthetics - Bursting Strength of Geotextiles Under No Compressive Load.
 - .4 Number 7.3-92, Methods of Testing Geosynthetics - Grab Tensile Test for Geotextiles.
 - .5 Number 10-94, Methods of Testing Geosynthetics - Geotextiles - Filtration Opening Size.
 - .3 Canadian Standard Association (CSA)/CSA International
 - .1 G40.20/G40.21-04 General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
 - .2 CAN/CSA-G164-FM92(C2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .4 Ontario Provincial Standard Specifications (OPSS)
 - .1 OPSS 1860-March 1998, Material Specification for Geotextiles.

- 1.4 SUBMITALS
- .1 Submit samples in accordance with Section 013300 - Submittal Procedures.
 - .2 Submit to the Departmental Representative the following technical data sheet at least four (4) weeks prior to beginning Work.
 - .1 Minimum length of 2 m of roll width of each erosion control type.
 - .3 Submit to the Departmental Representative the test reports and the certification documents at least four (4) weeks prior to beginning Work.
 - .4 Submit the manufacturer's instructions.
- 1.5 TRANSPORT AND STORAGE
- .1 During delivery and storage, protect the coconut fiber mulch mat from direct sunlight, ultraviolet rays, excessive heat, mud, dirt, dust debris and rodents.

PART 2 - PRODUCTS

- 2.1 COCONUT FIBER MULCH MAT
- .1 Non-toxic, environment safe, de-inked plant fibre.
 - .2 Biodegradable in approximately 2-4 years.
 - .3 Unit size: diameter of 750mm.
 - .4 Surface channels to facilitate water collection.
 - .5 Able to adapt and bond to ground conditions.
 - .6 Accessories :
 - .1 Anchoring dowel and anchor: compatible with standard CAN/CSA-G40.21, nuance 300W, hot-dipped galvanized, and presenting a zinc coating zinc of minimum 600 g/m2, according to standard CAN/CSA G164.

PART 3 - EXECUTION

- 3.1 INSTALLATION OF MULCH MATS
- .1 Install coconut fiber mulch mats according to indications on plans and apply the following recommendations.
 - .2 Install coconut fiber mulch mats around all shrubs and trees, as indicated on plans, before proceeding with the seeding.
 - .3 Anchor coconut fiber mulch mats with four (4) anchoring dowels.
 - .4 Prevent movement of membranes and protect them from damages and any deterioration before, during and after the installation.
 - .5 Replace coconut fiber mulch mats that are damaged or deteriorated, and obtain Departmental Representative's approval.

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| 3.2 <u>CLEANING</u> | .1 | Remove construction debris from Project site and dispose of debris in an environmentally responsible and legal manner in accordance with applicable norms. |
| 3.3 <u>PROTECTION MEASURES</u> | .1 | Circulation of vehicles on membranes is not permitted. |

***** END OF SECTION *****