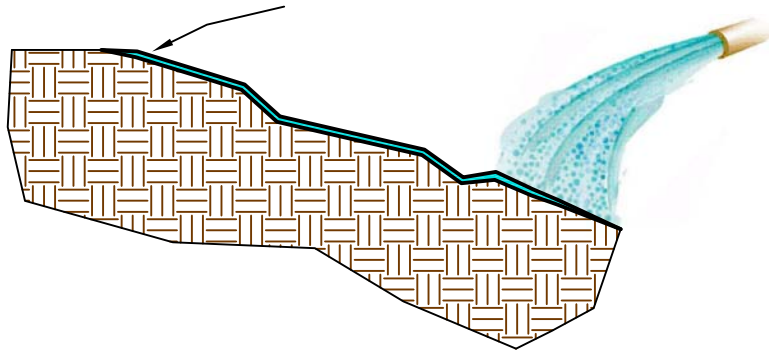


FLEXTERRA® HP-FGM HYDRAULICALLY APPLIED EROSION CONTROL PRODUCT (HECP)



SPECIFICATION: 31 25 14.13 - High Performance-Flexible Growth Medium

This section specifies a hydraulically-applied, 100% biodegradable, High Performance-Flexible Growth Medium (HP-FGM) that is manufactured in the United States and is composed of 100% recycled thermally refined (within a pressure vessel) wood fibers, crimped interlocking man-made biodegradable fibers, micro-pore granules, naturally derived crosslinked biopolymers and water absorbents. The HP-FGM is phytosanitized, free from plastic netting, requires no curing period and upon application forms an intimate bond with the soil surface to create a continuous, porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth. All components of the FGM shall be pre-packaged by the Manufacturer to assure both material performance and compliance with the following values. No chemical additives with the exception of fertilizer, liming and biostimulant materials should be added to this product.

1. Thermally Processed (within a pressure vessel) Wood Fiber - 80% \pm 3%
 - Heated to a temperature greater than 380 degrees Fahrenheit (193 degrees Celsius) for 5 minutes at a pressure greater than 50 psi (345 kPa)
- Crosslinked Biopolymers and Water Absorbents - 10% \pm 1%
- Crimped, Man-made Biodegradable Interlocking Fibers - 5% \pm 1%
- Micro-Pore Granules - 5% \pm 1%

INSTALLATION

Strictly comply with equipment manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines with fan-type nozzle (50-degree tip). To achieve optimum soil surface coverage, apply HP-FGM from opposing directions to soil surface. Rough surfaces (rocky terrain, cat tracks and ripped soils) may require higher application rates to achieve 100% cover. Slope interruption devices or water diversion techniques are recommended when slope lengths exceed 100 feet (30 m). Maximum slope length is for product applications on a 3H:1V slope. For application on steeper slopes, slope interruption lengths may need to be decreased based on actual site conditions. Not recommended for channels or areas with concentrated water flow. No chemical additives with the exception of fertilizer, liming and biostimulant materials should be added to this product. To ensure proper application rates, measure and stake area. For maximum performance, apply HP-FGM in a two-step process as follows:

1. *Step One: Apply fertilizer with specified prescriptive agronomic formulations and 50% of seed with a small amount of HP-FGM for visual metering.*
2. *Step Two: Mix balance of seed and apply HP-FGM at a rate of 50 lb per 125 gallons (23 kg/475 liters) of water over freshly seeded surfaces. Confirm loading rates with equipment manufacturer. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.*

APPLICATION RATES: These application rates are for standard conditions. Designers may wish to reduce rates to encourage faster vegetation establishment or may need to increase application rates on rough surfaces. Consult application and loading charts to determine number of bags to be added for desired area and application rate.

| Slope Gradient / Condition | English | SI |
|----------------------------|------------|------------|
| ≤ 4H to 1V | 2500 lb/ac | 2800 kg/ha |
| > 4H to 1V and ≤ 3H to 1V | 3000 lb/ac | 3400 kg/ha |
| > 3H to 1V and ≤ 2H to 1V | 3500 lb/ac | 3900 kg/ha |
| > 2H to 1V and ≤ 1H to 1V | 4000 lb/ac | 4500 kg/ha |
| > 1H to 1V | 4500 lb/ac | 5100 kg/ha |
| Below ECB or TRM | 1500 lb/ac | 1700 kg/ha |
| As infill for TRM | 3500 lb/ac | 3900 kg/ha |

SEE COMPREHENSIVE CSI FORMATTED SPECIFICATION FOR FURTHER DETAILS

PLEASE NOTE THAT THE INFORMATION PRESENTED HEREIN IS GENERAL INFORMATION ONLY. IT IS FOR CONCEPTUAL USE ONLY AND NOT INTENDED TO BE USED FOR CONSTRUCTION. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE ITS ACCURACY, THIS INFORMATION SHOULD NOT BE USED FOR A SPECIFIC APPLICATION WITHOUT INDEPENDENT PROFESSIONAL EXAMINATION AND VERIFICATION OF ITS SUITABILITY, APPLICABILITY AND ACCURACY.



FLEXTERRA® HP-FGM CAD Details Slope

FILE NAME: CAD Details Slope – Flexterra HP-FGM.dwg

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DRAWN BY: MDR

DATE: 06/14/10

CHECKED BY:

DATE:



SCALE: NOT TO SCALE

SHEET 1 OF 1