

**BID TABULATION - 2016 EROSION CONTROL AND GEOSYNTHETIC MATERIALS**

| <b>EROSION CONTROL AND GEOSYNTHETIC MATERIALS<br/>BID OPENING<br/>12-29-2015</b>                 | <b>MISSOURI PETROLEUM PRODUCTS</b>      | <b>ASP ENTERPRISES</b>                   | <b>NUWAY CONCRETE FORMS INC</b>              |
|--------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|----------------------------------------------|
|                                                                                                  | 1620 WOODSON RD<br>ST LOUIS MO<br>63114 | 1099 CASSENS IND. CT.<br>PENTON MO 63026 | 4190 HOFFMEISTER AVE<br>ST LOUIS MO<br>63125 |
| MINIMUM DELIVERY REQUIRED                                                                        | NO                                      | NO                                       | NO                                           |
| ADDITIONAL SUPPLIER FEES                                                                         |                                         | \$0.00                                   | \$5.00 DELIVERY FEE                          |
| APPROXIMATE TIME REQUIRED FOR DELIVERY FROM TIME OF ORDER                                        | 1 - 2 DAYS                              | 1 - 2 DAYS                               | 1 - 2 DAYS                                   |
| TIME REQUIRED FOR ORDER OF MATERIALS YOU DO NOT STOCK FROM TIME OF ORDER                         | 7-10-DAYS                               | 7-10-DAYS                                | 7-10-DAYS                                    |
| FOR PARTS PICKED UP AT YOUR LOCATION, HOW MANY MILES FROM HILLSBORO LOCATION TO YOUR SUPPLY DOCK | 47 MILES                                | 24 MILES                                 | 35.9 MILES                                   |
| REGULAR BUSINESS HOURS                                                                           | 7 AM - 3 PM                             | 7:00 AM - 5:00 PM<br>MON - FRI           | MON - FRI 7:00 - 5:00<br>SAT 8:00 - 12:00    |
| SUPPLIES GATEWAY                                                                                 | MISC.<br>GEOTEXTILES                    | GEOTEXTILE<br>FABRIC                     | NON WOVEN<br>FILTER FABRIC                   |
| PRICING OFFERED                                                                                  | CONTRACTOR                              | CONTRACTOR                               | LIST                                         |
| DISCOUNT                                                                                         | NONE                                    | NONE                                     | 10% OFF LIST                                 |
| SUPPLIES GATEWAY                                                                                 | HIGH STRENGTH<br>WOVEN<br>GEOTEXTILES   | GEOGRID                                  | WOVEN FILTER<br>FABRIC                       |
| PRICING OFFERED                                                                                  | CONTRACTOR                              | CONTRACTOR                               | LIST                                         |
| DISCOUNT                                                                                         | NONE                                    | NONE                                     | 10% OFF LIST                                 |
| SUPPLIES GATEWAY                                                                                 | GEOGRIDS<br>(BIAXIAL)                   | EROSION CONTROL<br>BLANKET               | SILT FENCING                                 |
| PRICING OFFERED                                                                                  | CONTRACTOR                              | CONTRACTOR                               | LIST                                         |
| DISCOUNT                                                                                         | NONE                                    | NONE                                     | 10% OFF LIST                                 |
| SUPPLIES GATEWAY                                                                                 | WATERPROOFING<br>MEMBRANES              | SEDIMENT<br>CONTROL                      | STRAW<br>WATTLE/TRUE DAM                     |
| PRICING OFFERED                                                                                  | CONTRACTOR                              | CONTRACTOR                               | LIST                                         |
| DISCOUNT                                                                                         | NONE                                    | NONE                                     | 10% OFF LIST                                 |
| SUPPLIES GATEWAY                                                                                 |                                         | MISC<br>GEOSYNTHETICS                    | STRAW                                        |
| PRICING OFFERED                                                                                  |                                         | CONTRACTOR                               | LIST                                         |
| DISCOUNT                                                                                         |                                         | NONE                                     | 10% OFF LIST                                 |
| <b>REQUIRED DOCUMENTS</b>                                                                        |                                         |                                          |                                              |
| NOTARIZED WORK AFFIDAVIT COMPLETED                                                               | Y                                       | N                                        | N                                            |
| E-VERIFICATION DOCUMENTATION (Y/N):                                                              | N                                       | N                                        | N                                            |
| COPY OF INSURANCE PROVIDED                                                                       | Y                                       | N                                        | N                                            |
| TAX RECEIPTS OR NOTARIZED LETTER STATING NO REAL OR PERSONAL PROPERTY OWNED IN JEFFERSON COUNTY  | Y                                       | N                                        | N                                            |
| COOPERATIVE BID FORM (Y/N)                                                                       | Y                                       | Y                                        | Y                                            |
| COOPERATIVE CONTACT INFO:                                                                        | Y                                       | Y                                        | Y                                            |
| COMPANY INFORMATION AND SIGNATURE                                                                | Y                                       | Y                                        | Y                                            |
| BID DEPOSIT REQUIRED                                                                             | N/A                                     | N/A                                      | N/A                                          |
| COMMENTS:                                                                                        | SEE ATTACHED                            | SEE ATTACHED                             | SEE ATTACHED                                 |



**JEFFERSON COUNTY**  
**DEPARTMENT OF ADMINISTRATIVE SERVICES**  
729 MAPLE ST / PO BOX 100  
HILLSBORO MO 63050  
WWW.JEFFCOMO.ORG

**Invitation for Bid: 2016 EROSION CONTROL AND**  
**GEOSYNTHETIC MATERIALS**

**Date Issued: 11-25-15**

**BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, DECEMBER 29, 2015, AT 2:00 P.M. LOCAL TIME.**

**Specification  
Contact:**

**KURT WENGERT**  
Department of Public Works  
636-797-5427  
kwengert@jeffcomo.org

**Contract  
Contact:**

**VICKIE PRATT**  
Department of Administrative Services  
636-797-5380

**Mail (3) Three  
Complete Copies  
With Vendor And  
Bid Information As  
Shown In Sample:**

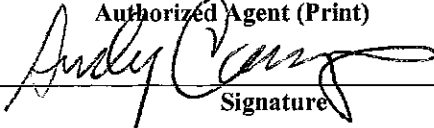
**SAMPLE ENVELOPE**

*VENDOR NAME*  
*VENDOR ADDRESS*  
*CONTACT NUMBER*      **DEPARTMENT OF THE COUNTY CLERK**  
**JEFFERSON COUNTY MISSOURI**  
**729 MAPLE ST / PO BOX 100**  
**HILLSBORO MO 63050-0100**  
*SEALED BID: (BID NAME)*

**Contract Term:  
UPON APPROVAL OF THE  
COUNTY COUNCIL AND  
COUNTY EXECUTIVE**

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for two additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

**Vendor  
Information:**

|                                    |                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------|
| <u>Missouri Petroleum Products</u> | <u>Andy Carrigan</u>                                                                        |
| <u>Company Name</u>                | <u>Authorized Agent (Print)</u>                                                             |
| <u>1620 Woodson Rd</u>             | <u></u> |
| <u>Address</u>                     | <u>Signature</u>                                                                            |
| <u>St Louis, MO 63114</u>          | <u>Fabric/Sales</u>                                                                         |
| <u>City/State/Zip Code</u>         | <u>Title</u>                                                                                |
| <u>(314) 378-3906</u>              | <u>12/10/15</u> <u>#43 1845744</u>                                                          |
| <u>Telephone #</u>                 | <u>Date</u> <u>Tax ID #</u>                                                                 |
| <u>andyc@missouripetroleum.com</u> | <u>(314) 991-9624</u>                                                                       |
| <u>E-mail</u>                      | <u>Fax #</u>                                                                                |

Minimum Delivery Required (Circle One) Yes No

If yes, amount \$ \_\_\_\_\_

Additional Supplier Fees \$ \_\_\_\_\_

Comments: \_\_\_\_\_

Approximate Time required for delivery from time of order 1-2 days

Time required for order of materials you do not stock from time of order 7-10 days

For parts picked up at your location, how many miles from the Hillsboro location to your supply dock  
47 miles ?

What are your regular business hours? 7 am - 3 pm

## BID PRICES

Contract shall be based on net price resulting from percentage discount from specified Manufacturers Price Sheet price lists. Current Manufacturers Price Sheet lists shall be submitted with the bidding documents.

Bidder must supply the County with a toll free telephone number for placing orders.

Do not use chain discounts; show one discount only.

Price increase/decrease by the manufacturer will be allowed under this contract; however, the percentage discount shall remain the same. The County shall be notified prior to any price increase or decrease.

Vendor is instructed to contact Kurt Wengert (636) 797-5427 regarding any and all questions concerning this contract.

## TERM OF CONTRACT

This contract will remain in effect for 12 months from the date of acceptance. The County of Jefferson reserves the right to renew this contract for two additional 12-month periods at the same discounts, terms and conditions with the written consent of the successful bidder.

## SUPPLY CATEGORY/BID

Geosynthetic supplies categories will be as listed below and should include all types offered. The pricing offered may be any such as; MSRP, List, Retail, State bid, Government, Dealer, Contractor, Fleet, all product lines, or other.

### EXAMPLE BID

| SUPPLIES CATEGORY              | PRICING OFFERED | DISCOUNT      |
|--------------------------------|-----------------|---------------|
| Erosion Control Geotextiles    | MSRP            | XX% off List  |
| Waterproofing Geomembranes     | Contractor      | none          |
| Geogrids (Biaxial or Triaxial) | Government      | per State bid |
| Misc. Geosynthetics*           | Dealer          | XX% off List  |

\* The County reserves the right to investigate all types of geosynthetic materials available and select from any category needed for the desired use.

## BID SHEET

Multiple supply categories may be bid. Bidders shall include a copy of their product catalog or listing of product lines available that they will offer and a listing of their retail locations. Multiple vendors will be selected for the convenience of the County.

| SUPPLIES CATEGORY                      | PRICING OFFERED   | DISCOUNT (if any) |
|----------------------------------------|-------------------|-------------------|
| <u>Misc. Geosynthetics</u>             | <u>Contractor</u> | <u>None</u>       |
| <u>High Strength Woven Geotextiles</u> | <u>Contractor</u> | <u>None</u>       |
| <u>Geogrids (Biaxial)</u>              | <u>Contractor</u> | <u>None</u>       |
| <u>Waterproofing Membranes</u>         | <u>Contractor</u> | <u>None</u>       |
| <u> </u>                               | <u> </u>          | <u> </u>          |

Note: volume discounts and delivery costs will be negotiated for each order purchased.



1620 Woodson Road  
St. Louis, MO 63114  
314-378-3906 Cell  
Fax 314-991-4037  
[www.missouripetroleum.com](http://www.missouripetroleum.com)

Date: December 14, 2015

Bid Date: 12/29/15 - 2:00 p.m.

Bid: 2016 Erosion Control and Geosynthetic Materials  
To: Jefferson County, Missouri

Missouri Petroleum is pleased to quote the following price for the above referenced job:

**Miscellaneous Geotextiles**

LINQ GTF 200 (200# woven) @ \$ 0.50/sy  
12.5' x 432' = 600 sy/roll OR 15' x 360' = 600 sy/roll  
LINQ GTF 300 (315# woven) @ \$ 0.65/sy  
12.5' x 360' = 500 sy/roll  
LINQ140EX (4 oz/sy nonwoven) @ \$ 0.48/sy  
12.5' x 360' = 500 sy/roll OR 15' x 360' = 600 sy/roll  
LINQ 150EX (6 oz/sy nonwoven) @ \$ 0.60/sy  
12.5' x 360' = 500 sy/roll OR 15' x 300' = 500 sy/roll  
LINQ 180EX (8 oz/sy nonwoven) @ \$ 0.80/sy  
15' x 300' = 500 sy/roll  
LINQ 245EX (10 oz/sy nonwoven) @ \$ 1.05/sy  
15' x 300' = 500 sy/roll  
LINQ 275EX (12 oz/sy nonwoven) @ \$ 1.35/sy  
15' x 300' = 500 sy/roll

**High Strength Woven Geotextiles**

Geotex 2X2HF @ \$ 1.40/sy  
15' x 300' = 500 sy/roll  
Geotex 4X4HF @ \$ 2.30/sy  
15' x 300' = 500 sy/roll

**Geogrid**

Syntec SBx11 (biaxial geogrid) @ \$ 0.85/sy  
13.12' x 246' = 358 sy/roll  
Syntec SBx12 (biaxial geogrid) @ \$ 1.45/sy  
13.12 x 164' = 239 sy/roll

**Waterproofing Membrane**

Polyguard NW74 membrane @ \$ 170/roll  
12" x 200' / 24" x 100' / 48" x 50'  
Polyguard 650 RC Liquid Adhesive (5 gal pails) @ \$ 149/pail  
Polyguard 650 Mastic (5 gal pails) @ \$ 119/pail

**Geotextile Pins (for pinning down geotextile)**

12" pins w/ washer (100 pins/box) @ \$ 40/box

- Material location: 1620 Woodson Road, St Louis, MO 63114 (800) 392-4295 ext. 231 or 226
- All material sold in full rolls, pails or boxes.
- Material Specification sheets included with bid.
- This quote shall be made a part of any subcontract. If there is a conflict in the language between the subcontract and this quote, this quote shall prevail.
- Terms are net 30 days.

## GTF-200

Thrace-LINQ® GTF-200 is woven in a stable weave pattern; using high-tenacity polypropylene slit film yarns. This geotextile has been UV stabilized and is resistant to commonly encountered chemicals, mildew, and insects, found in soil. Thrace-LINQ® GTF-200 meets AASHTO M288-06 Class 3 standards.

| PROPERTY                     | TEST PROCEDURE | METRIC    |                      | ENGLISH |                     |
|------------------------------|----------------|-----------|----------------------|---------|---------------------|
|                              |                | MARV      |                      | MARV    |                     |
| Grab Tensile Strength        | ASTM-D4632     | 890       | N                    | 200     | lbs                 |
| Grab Tensile Elongation      | ASTM-D4632     | 15 / 15   | %                    | 15 / 15 | %                   |
| Trapezoid Tear               | ASTM-D4533     | 334 / 334 | N                    | 75 / 75 | lbs                 |
| CBR Puncture                 | ASTM-D6241     | 3114      | N                    | 700     | lbs                 |
| Permittivity                 | ASTM-D4491     | 0.08      | sec <sup>-1</sup>    | 0.08    | sec <sup>-1</sup>   |
| WaterFlow Rate               | ASTM-D4491     | 244       | l/min/m <sup>2</sup> | 6       | gpm/ft <sup>2</sup> |
| Apparent Opening Size (AOS ) | ASTM-D4751     | 0.425     | mm                   | 40      | USSieve             |
| UV Stability @ 500 hrs       | ASTM-D4355     | 80        | %                    | 80      | %                   |

**Notes:**

- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
- Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

| PACKAGING  |  | METRIC |       |        |             | ENGLISH |       |        |             |
|------------|--|--------|-------|--------|-------------|---------|-------|--------|-------------|
|            |  | Area   | Width | Length | Est. Weight | Area    | Width | Length | Est. Weight |
|            |  | m2     | m     | m      | kg          | yd2     | ft    | ft     | lbs         |
| Roll Sizes |  | 502    | 3.8   | 131.7  | 82          | 600     | 12.5  | 432    | 180         |
|            |  | 502    | 4.6   | 109.7  | 83          | 600     | 15    | 360    | 182         |
|            |  | 502    | 5.3   | 94.2   | 84          | 600     | 17.5  | 309    | 185         |

*Physical properties reflect industry standards. Roll Data may reflect higher values than those listed above.  
Roll lengths and widths have a tolerance of +/- 1%.*

The property values listed above are effective 09/2012 and are subject to change without notice.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date manufactured. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself or herself as to the suitability and completeness of such information for his or her own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against infringement.

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## GTF-300

Thrace-LINQ® GTF-300 is woven in a stable weave pattern; using high-tenacity polypropylene slit film yarns. This geotextile has been UV stabilized and is resistant to commonly encountered chemicals, mildew, and insects, found in soil. Thrace-LINQ® GTF-300 meets AASHTO M288-06 Class 1 standards.

| PROPERTY                     | TEST PROCEDURE | METRIC    |                      | ENGLISH   |                     |
|------------------------------|----------------|-----------|----------------------|-----------|---------------------|
|                              |                | MARV      |                      | MARV      |                     |
| Grab Tensile Strength        | ASTM-D4632     | 1401      | N                    | 315       | lbs                 |
| Grab Tensile Elongation      | ASTM-D4632     | 15 / 15   | %                    | 15 / 15   | %                   |
| Trapezoid Tear               | ASTM-D4533     | 512 / 512 | N                    | 115 / 115 | lbs                 |
| CBR Puncture                 | ASTM-D6241     | 4448      | N                    | 1000      | lbs                 |
| Permittivity                 | ASTM-D4491     | 0.05      | sec <sup>-1</sup>    | 0.05      | sec <sup>-1</sup>   |
| WaterFlow Rate               | ASTM-D4491     | 163       | l/min/m <sup>2</sup> | 4         | gpm/ft <sup>2</sup> |
| Apparent Opening Size (AOS ) | ASTM-D4751     | 0.425     | mm                   | 40        | USSieve             |
| UV Stability @ 500 hrs       | ASTM-D4355     | 80        | %                    | 80        | %                   |

**Notes:**

- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
- Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

| PACKAGING  |  | METRIC |       |        |             | ENGLISH |       |        |             |
|------------|--|--------|-------|--------|-------------|---------|-------|--------|-------------|
|            |  | Area   | Width | Length | Est. Weight | Area    | Width | Length | Est. Weight |
|            |  | m2     | m     | m      | kg          | yd2     | ft    | ft     | lbs         |
| Roll Sizes |  | 418    | 3.8   | 109.7  | 93          | 500     | 12.5  | 360    | 205         |
|            |  | 418    | 4.6   | 91.4   | 94          | 500     | 15    | 300    | 207         |
|            |  | 418    | 5.3   | 78.5   | 95          | 500     | 17.5  | 258    | 210         |

*Physical properties reflect industry standards. Roll Data may reflect higher values than those listed above.  
 Roll lengths and widths have a tolerance of +/- 1%.*

The property values listed above are effective 03/2013 and are subject to change without notice.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date manufactured. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself or herself as to the suitability and completeness of such information for his or her own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against infringement.

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# Product Data Sheet

## 140EX

Thrace-LINQ® 140EX is a nonwoven geotextile fabric manufactured from Polypropylene staple fiber. The fibers are randomly oriented and form a cohesive/stabilized needlepunched fabric, for use in many applications. This fabric has been UV stabilized and is resistant to commonly encountered chemicals, mildew, and insects, found in soil. Thrace-LINQ® 140EX meets AASHTO M288-06 Class 3 standards.

| PROPERTY                     | TEST PROCEDURE | METRIC |                      | ENGLISH |                     |
|------------------------------|----------------|--------|----------------------|---------|---------------------|
|                              |                | MARV   |                      | MARV    |                     |
| Grab Tensile Strength        | ASTM-D4632     | 534    | N                    | 120     | lbs                 |
| Grab Tensile Elongation      | ASTM-D4632     | 50     | %                    | 50      | %                   |
| Trapezoid Tear               | ASTM-D4533     | 222    | N                    | 50      | lbs                 |
| CBR Puncture                 | ASTM-D6241     | 1512   | N                    | 340     | lbs                 |
| Permittivity                 | ASTM-D4491     | 1.8    | sec <sup>-1</sup>    | 1.8     | sec <sup>-1</sup>   |
| WaterFlow Rate               | ASTM-D4491     | 5297   | l/min/m <sup>2</sup> | 130     | gpm/ft <sup>2</sup> |
| Apparent Opening Size (AOS ) | ASTM-D4751     | 0.212  | mm                   | 70      | USSieve             |
| UV Stability @ 500 hrs       | ASTM-D4355     | 70     | %                    | 70      | %                   |

- Notes:**
- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
  - Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

| PACKAGING  |  | METRIC |       |        |             | ENGLISH |       |        |             |
|------------|--|--------|-------|--------|-------------|---------|-------|--------|-------------|
|            |  | Area   | Width | Length | Est. Weight | Area    | Width | Length | Est. Weight |
|            |  | m2     | m     | m      | kg          | yd2     | ft    | ft     | lbs         |
| Roll Sizes |  | 418    | 3.8   | 109.7  | 69          | 500     | 12.5  | 360    | 152         |
|            |  | 502    | 4.6   | 109.7  | 83          | 600     | 15    | 360    | 182         |

*Physical properties reflect industry standards. Roll Data may reflect higher values than those listed above.  
 Roll lengths and widths have a tolerance of +/- 1%.*

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## 150EX

Thrace-LINQ® 150EX is a nonwoven geotextile fabric manufactured from Polypropylene staple fiber. The fibers are randomly oriented and form a cohesive/stabilized needlepunched fabric, for use in many applications. This fabric has been UV stabilized and is resistant to commonly encountered chemicals, mildew, and insects, found in soil. Thrace-LINQ® 150EX meets AASHTO M288-06 Class 2 standards.

| PROPERTY                     | TEST PROCEDURE | METRIC |                      | ENGLISH |                     |
|------------------------------|----------------|--------|----------------------|---------|---------------------|
|                              |                | MARV   |                      | MARV    |                     |
| Grab Tensile Strength        | ASTM-D4632     | 712    | N                    | 160     | lbs                 |
| Grab Tensile Elongation      | ASTM-D4632     | 50     | %                    | 50      | %                   |
| Trapezoid Tear               | ASTM-D4533     | 267    | N                    | 60      | lbs                 |
| CBR Puncture                 | ASTM-D6241     | 1824   | N                    | 410     | lbs                 |
| Permittivity                 | ASTM-D4491     | 1.5    | sec <sup>-1</sup>    | 1.5     | sec <sup>-1</sup>   |
| WaterFlow Rate               | ASTM-D4491     | 4482   | l/min/m <sup>2</sup> | 110     | gpm/ft <sup>2</sup> |
| Apparent Opening Size (AOS ) | ASTM-D4751     | 0.180  | mm                   | 80      | USSieve             |
| UV Stability @ 500 hrs       | ASTM-D4355     | 70     | %                    | 70      | %                   |

- Notes:**
- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
  - Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

| PACKAGING  |  | METRIC |       |        |             | ENGLISH |       |        |             |
|------------|--|--------|-------|--------|-------------|---------|-------|--------|-------------|
|            |  | Area   | Width | Length | Est. Weight | Area    | Width | Length | Est. Weight |
|            |  | m2     | m     | m      | kg          | yd2     | ft    | ft     | lbs         |
| Roll Sizes |  | 418    | 3.8   | 109.7  | 90          | 500     | 12.5  | 360    | 199         |
|            |  | 418    | 4.6   | 91.4   | 91          | 500     | 15    | 300    | 201         |

*Physical properties reflect industry standards. Roll Data may reflect higher values than those listed above.  
Roll lengths and widths have a tolerance of +/- 1%.*

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## 180EX

Thrace-LINQ® 180EX is a nonwoven geotextile fabric manufactured from Polypropylene staple fiber. The fibers are randomly oriented and form a cohesive/stabilized needlepunched fabric, for use in many applications. This fabric has been UV stabilized and is resistant to commonly encountered chemicals, mildew, and insects, found in soil. Thrace-LINQ® 180EX meets AASHTO M288-06 Class 1 standards.

| PROPERTY                     | TEST PROCEDURE | METRIC |                      | ENGLISH |                     |
|------------------------------|----------------|--------|----------------------|---------|---------------------|
|                              |                | MARV   |                      | MARV    |                     |
| Grab Tensile Strength        | ASTM-D4632     | 912    | N                    | 205     | lbs                 |
| Grab Tensile Elongation      | ASTM-D4632     | 50     | %                    | 50      | %                   |
| Trapezoid Tear               | ASTM-D4533     | 356    | N                    | 80      | lbs                 |
| CBR Puncture                 | ASTM-D6241     | 2380   | N                    | 535     | lbs                 |
| Permittivity                 | ASTM-D4491     | 1.5    | sec <sup>-1</sup>    | 1.5     | sec <sup>-1</sup>   |
| WaterFlow Rate               | ASTM-D4491     | 4482   | l/min/m <sup>2</sup> | 110     | gpm/ft <sup>2</sup> |
| Apparent Opening Size (AOS ) | ASTM-D4751     | 0.150  | mm                   | 100     | USSieve             |
| UV Stability @ 500 hrs       | ASTM-D4355     | 70     | %                    | 70      | %                   |

**Notes:**

- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
- Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

| PACKAGING  |  | METRIC |       |        |             | ENGLISH |       |        |             |
|------------|--|--------|-------|--------|-------------|---------|-------|--------|-------------|
|            |  | Area   | Width | Length | Est. Weight | Area    | Width | Length | Est. Weight |
|            |  | m2     | m     | m      | kg          | yd2     | ft    | ft     | lbs         |
| Roll Sizes |  | 418    | 3.8   | 109.7  | 118         | 500     | 12.5  | 360    | 261         |
|            |  | 418    | 4.6   | 91.4   | 119         | 500     | 15    | 300    | 263         |

*Physical properties reflect industry standards. Roll Data may reflect higher values than those listed above.  
Roll lengths and widths have a tolerance of +/- 1%.*

The property values listed above are effective 09/2012 and are subject to change without notice.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date manufactured. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself or herself as to the suitability and completeness of such information for his or her own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against infringement.

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## 245EX

Thrace-LINQ® 245EX is a nonwoven geotextile fabric manufactured from Polypropylene staple fiber. The fibers are randomly oriented and form a cohesive/stabilized needlepunched fabric, for use in many applications. This fabric has been UV stabilized and is resistant to commonly encountered chemicals, mildew, and insects, found in soil.

| PROPERTY                     | TEST PROCEDURE | METRIC |                      | ENGLISH |                     |
|------------------------------|----------------|--------|----------------------|---------|---------------------|
|                              |                | MARV   |                      | MARV    |                     |
| Grab Tensile Strength        | ASTM-D4632     | 1112   | N                    | 250     | lbs                 |
| Grab Tensile Elongation      | ASTM-D4632     | 50     | %                    | 50      | %                   |
| Trapezoid Tear               | ASTM-D4533     | 445    | N                    | 100     | lbs                 |
| CBR Puncture                 | ASTM-D6241     | 3114   | N                    | 700     | lbs                 |
| Permittivity                 | ASTM-D4491     | 1.2    | sec <sup>-1</sup>    | 1.2     | sec <sup>-1</sup>   |
| WaterFlow Rate               | ASTM-D4491     | 3463   | l/min/m <sup>2</sup> | 85      | gpm/ft <sup>2</sup> |
| Apparent Opening Size (AOS ) | ASTM-D4751     | 0.150  | mm                   | 100     | USSieve             |
| UV Stability @ 500 hrs       | ASTM-D4355     | 70     | %                    | 70      | %                   |

- Notes:**
- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
  - Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

| PACKAGING  |  | METRIC         |       |        |             | ENGLISH         |       |        |             |
|------------|--|----------------|-------|--------|-------------|-----------------|-------|--------|-------------|
|            |  | Area           | Width | Length | Est. Weight | Area            | Width | Length | Est. Weight |
|            |  | m <sup>2</sup> | m     | m      | kg          | yd <sup>2</sup> | ft    | ft     | lbs         |
| Roll Sizes |  | 418            | 3.8   | 109.7  | 147         | 500             | 12.5  | 360    | 324         |
|            |  | 418            | 4.6   | 91.4   | 148         | 500             | 15    | 300    | 326         |

*Physical properties reflect industry standards. Roll Data may reflect higher values than those listed above.  
Roll lengths and widths have a tolerance of +/- 1%.*

The property values listed above are effective 09/2012 and are subject to change without notice.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date manufactured. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself or herself as to the suitability and completeness of such information for his or her own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against infringement.

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## 275EX

Thrace-LINQ® 275EX is a nonwoven geotextile fabric manufactured from Polypropylene staple fiber. The fibers are randomly oriented and form a cohesive/stabilized needlepunched fabric, for use in many applications. This fabric has been UV stabilized and is resistant to commonly encountered chemicals, mildew, and insects, found in soil.

| PROPERTY                     | TEST PROCEDURE | METRIC |                      | ENGLISH |                     |
|------------------------------|----------------|--------|----------------------|---------|---------------------|
|                              |                | MARV   |                      | MARV    |                     |
| Grab Tensile Strength        | ASTM-D4632     | 1334   | N                    | 300     | lbs                 |
| Grab Tensile Elongation      | ASTM-D4632     | 50     | %                    | 50      | %                   |
| Trapezoid Tear               | ASTM-D4533     | 512    | N                    | 115     | lbs                 |
| CBR Puncture                 | ASTM-D6241     | 3692   | N                    | 830     | lbs                 |
| Permittivity                 | ASTM-D4491     | 0.9    | sec <sup>-1</sup>    | 0.9     | sec <sup>-1</sup>   |
| WaterFlow Rate               | ASTM-D4491     | 2648   | l/min/m <sup>2</sup> | 65      | gpm/ft <sup>2</sup> |
| Apparent Opening Size (AOS ) | ASTM-D4751     | 0.150  | mm                   | 100     | USSieve             |
| UV Stability @ 500 hrs       | ASTM-D4355     | 70     | %                    | 70      | %                   |

- Notes:**
- Mullen Burst ASTM D3786 removed. Not recognized by ASTM D35 on Geosynthetics.
  - Puncture ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

| PACKAGING  |  | METRIC         |       |        |             | ENGLISH         |       |        |             |
|------------|--|----------------|-------|--------|-------------|-----------------|-------|--------|-------------|
|            |  | Area           | Width | Length | Est. Weight | Area            | Width | Length | Est. Weight |
|            |  | m <sup>2</sup> | m     | m      | kg          | yd <sup>2</sup> | ft    | ft     | lbs         |
| Roll Sizes |  | 418            | 3.8   | 109.7  | 175         | 500             | 12.5  | 360    | 386         |
|            |  | 418            | 4.6   | 91.4   | 176         | 500             | 15    | 300    | 388         |

*Physical properties reflect industry standards. Roll Data may reflect higher values than those listed above.  
 Roll lengths and widths have a tolerance of +/- 1%.*

The property values listed above are effective 09/2012 and are subject to change without notice.

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**GEOTEX**  
BY PROPEX

## PRODUCT DATA • **GEOTEX 2X2HF**

**GEOTEX 2X2HF** is a woven polypropylene geotextile containing heavy woven monofilament/fibrillated yarns produced by Propex, and will meet the following typical values when tested in accordance with the methods listed below. These characteristics make **GEOTEX 2X2HF** ideal for the construction of embankments over soft soils, steepened slopes, and modular block and/or wrapped-face retaining walls. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

**GEOTEX 2X2HF** conforms to the property values listed below.<sup>1</sup> Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Typical<sup>2</sup>

| PROPERTY                                 | TEST METHOD | ENGLISH                | METRIC                  |
|------------------------------------------|-------------|------------------------|-------------------------|
| <b>ORIGIN OF MATERIALS</b>               |             |                        |                         |
| % U.S. Manufactured Inputs               |             | 100%                   | 100%                    |
| % U.S. Manufactured                      |             | 100%                   | 100%                    |
| <b>MECHANICAL</b>                        |             |                        |                         |
| Wide Width Tensile                       | ASTM D-4595 | 2640 x 2460 lbs/ft     | 38.5 x 36.0 kN/m        |
| Wide Width Elongation                    | ASTM D-4595 | 7%                     | 7%                      |
| Wide Width Tensile at 2% Strain          | ASTM D-4595 | 480 x 588 lbs/ft       | 7.0 x 8.6 kN/m          |
| Wide Width Tensile at 5% Strain          | ASTM D-4595 | 1212 x 1356 lbs/ft     | 17.7 x 19.8 kN/m        |
| Wide Width Tensile at 10% Strain         | ASTM D-4595 | 2340 x 2412 lbs/ft     | 34.2 x 35.2 kN/m        |
| CBR Puncture                             | ASTM D-6241 | 1300 lbs               | 5783 N                  |
| Trapezoidal Tear                         | ASTM D-4533 | 125 lbs                | 556 N                   |
| <b>ENDURANCE</b>                         |             |                        |                         |
| UV Resistance<br>% Retained at 500 hrs   | ASTM D-4355 | 80%                    | 80%                     |
| <b>HYDRAULIC</b>                         |             |                        |                         |
| Apparent Opening Size (AOS) <sup>3</sup> | ASTM D-4751 | 30 US Std. Sieve       | 0.600 mm                |
| Permittivity                             | ASTM D-4491 | 0.70 sec <sup>-1</sup> | 0.70 sec <sup>-1</sup>  |
| Water Flow Rate                          | ASTM D-4491 | 50 gpm/ft <sup>2</sup> | 2037 lpm/m <sup>2</sup> |
| <b>ROLL SIZES</b>                        |             | 15.0 ft x 300 ft       | 4.6 m x 91.5 m          |

### NOTES:

1. The property values listed above are effective 04/2013 and are subject to change without notice.
2. Values shown are in weaker principal direction.



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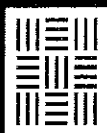
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**GEOTEX<sup>®</sup>**  
BY PROPEX

## PRODUCT DATA • **GEOTEX 4X4HF**

**GEOTEX 4X4HF** is a woven polypropylene geotextile containing heavy woven serrated/serrated yarns produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. These characteristics make **GEOTEX 4X4HF** ideal for the construction of embankments over soft soils, steepened slopes, modular block and/or wrapped-face retaining walls and subgrade reinforcement/stabilization for road construction. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

**GEOTEX 4X4HF** conforms to the property values listed below.<sup>1</sup> Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute - Laboratory Accreditation Program (GAI-LAP). This product is NTPEP approved for AASHTO standards.

MARV<sup>2</sup>

| PROPERTY                                 | TEST METHOD | ENGLISH                | METRIC                  |
|------------------------------------------|-------------|------------------------|-------------------------|
| <b>ORIGIN OF MATERIALS</b>               |             |                        |                         |
| % U.S. Manufactured Inputs               |             | 100%                   | 100%                    |
| % U.S. Manufactured                      |             | 100%                   | 100%                    |
| <b>MECHANICAL</b>                        |             |                        |                         |
| Wide Width Tensile                       | ASTM D-4595 | 4800 x 4800 lbs/ft     | 70.1 x 70.1 kN/m        |
| Wide Width Tensile at 2% Strain          | ASTM D-4595 | 960 x 1320 lbs/ft      | 14.0 x 19.3 kN/m        |
| Wide Width Tensile at 5% Strain          | ASTM D-4595 | 2400 x 2700 lbs/ft     | 35.0 x 39.4 kN/m        |
| Wide Width Tensile at 10% Strain         | ASTM D-4595 | 4800 x 4800 lbs/ft     | 70.1 x 70.1 kN/m        |
| CBR Puncture                             | ASTM D-6241 | 2000 lbs               | 8900 N                  |
| Trapezoidal Tear                         | ASTM D-4533 | 180 lbs                | 801N                    |
| <b>ENDURANCE</b>                         |             |                        |                         |
| UV Resistance<br>% Retained at 500 hrs   | ASTM D-4355 | 80%                    | 80%                     |
| <b>HYDRAULIC</b>                         |             |                        |                         |
| Apparent Opening Size (AOS) <sup>3</sup> | ASTM D-4751 | 30 US Std. Sieve       | 0.600 mm                |
| Permittivity                             | ASTM D-4491 | 0.40 sec <sup>-1</sup> | 0.40 sec <sup>-1</sup>  |
| Water Flow Rate                          | ASTM D-4491 | 30 gpm/ft <sup>2</sup> | 1222 lpm/m <sup>2</sup> |
| <b>ROLL SIZES</b>                        |             | 15.0 ft x 300 ft       | 4.6 m x 91.5 m          |

### NOTES:

1. The property values listed above are effective 04/2011 and are subject to change without notice.
2. Values shown are in weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
3. Maximum average roll value.



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## Syntec Biaxial Geogrid SBx 11 (Type 1)

Syntec SBx 11 is a integrally formed biaxial geogrid made from the highest quality polypropylene resin. Syntec SBx Geogrids offer the most economical, expedient, and reliable solution to stabilize weak soils or reinforce aggregate base materials. SBx geogrids confine stone and soil particles to prevent lateral shearing. When used, vehicular and other loads are spread over a much broader surface area, thus reducing the pressure applied to the subgrade.

### Product Specifications

|                                                    |                 |             |              |
|----------------------------------------------------|-----------------|-------------|--------------|
| Aperture Dimensions <sup>(2)</sup>                 | mm (in)         | 25 (1.0)    | 33 (1.3)     |
| Minimum Rib Thickness <sup>(2)</sup>               | mm (in)         | 0.76 (0.03) | 0.76 (0.03)  |
| Tensile Strength at 2% Strain <sup>(3)</sup>       | kN/m (lb/ft)    | 4.1 (280)   | 6.6 (450)    |
| Tensile Strength at 5% Strain <sup>(3)</sup>       | kN/m (lb/ft)    | 8.5 (580)   | 13.4 (920)   |
| Ultimate Tensile Strength <sup>(3)</sup>           | kN/m (lb/ft)    | 12.4 (850)  | 19.0 (1,300) |
| Junction Efficiency <sup>(4)</sup>                 | %               | 93          |              |
| Flexural Stiffness <sup>(5)</sup>                  | mg-cm           | 250,000     |              |
| Aperture Stability <sup>(6)</sup>                  | m-N/deg         | 0.32        |              |
| Resistance to Installation Damage <sup>(7)</sup>   | %SC / %SW / %GP | 95/93/90    |              |
| Resistance to Long-Term Degradation <sup>(8)</sup> | %               | 100         |              |
| Resistance to UV Degradation <sup>(9)</sup>        | %               | 100         |              |

The biaxial geogrid shall be delivered to the job site in roll form with each roll individually identified and nominally measuring 3.0 m (9.8 ft) or 4.0 m (13.1 ft) in width and 75.0 m (246 ft) in length. Also available in jumbo rolls, measuring 4.87 m (16.0 ft) in width and 100 m (328 ft) in length.

## NOTES

- <sup>a</sup> Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.
- <sup>b</sup> Nominal dimensions
- <sup>c</sup> True resistance to elongation when initially subjected to a load determined in accordance with ASTM D6637-01 without deforming test materials under load before measuring such resistance or employing "secant" or "offset" tangent methods of measurement so as to overstate tensile properties.
- <sup>d</sup> Load transfer capability determined in accordance with GRI-GG2-05 and expressed as a percentage of ultimate tensile strength.
- <sup>e</sup> Resistance to bending force determined in accordance with ASTM D5732-01, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang dimension. The overall Flexural Stiffness is calculated as the square root of the product of MD and XMD Flexural Stiffness values.
- <sup>f</sup> Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity.
- <sup>g</sup> Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818-06 and load capacity shall be determined in accordance with ASTM D6637-01.
- <sup>h</sup> Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments.
- <sup>i</sup> Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

**DURABILITY RUNS DEEP** For more information on this product and others, please visit us at [SSWorld.com](http://SSWorld.com), call 800-435-2008 or contact your local sales office.



## AT THE CORE:

A biaxial geogrid engineered specifically for subgrade stabilization and base reinforcement.

**CSE**  
ENVIRONMENTAL

The following is a summary of the information provided in the above table, and is intended to provide a general overview of the data. The information is not intended to be used for any other purpose.



## Syntec Biaxial Geogrid SBx 12 (Type 2)

Syntec SBx 12 is a integrally formed biaxial geogrid made from the highest quality polypropylene resin. Syntec SBx Geogrids offer the most economical, expedient, and reliable solution to stabilize weak soils or reinforce aggregate base materials. SBx geogrids confine stone and soil particles to prevent lateral shearing. When used, vehicular and other loads are spread over a much broader surface area, thus reducing the pressure applied to the subgrade.

### Product Specifications

|                                                    |                 |              |              |
|----------------------------------------------------|-----------------|--------------|--------------|
| Aperture Dimensions <sup>(2)</sup>                 | mm (in)         | 25 (1.0)     | 33 (1.3)     |
| Minimum Rib Thickness <sup>(2)</sup>               | mm (in)         | 1.27 (0.05)  | 1.27 (0.05)  |
| Tensile Strength at 2% Strain <sup>(3)</sup>       | kN/m (lb/ft)    | 6.0 (410)    | 9.0 (620)    |
| Tensile Strength at 5% Strain <sup>(3)</sup>       | kN/m (lb/ft)    | 11.8 (810)   | 19.6 (1,340) |
| Ultimate Tensile Strength <sup>(3)</sup>           | kN/m (lb/ft)    | 19.2 (1,310) | 28.8 (1,970) |
| Junction Efficiency <sup>(4)</sup>                 | %               | 93           |              |
| Flexural Stiffness <sup>(5)</sup>                  | mg-cm           | 750,000      |              |
| Aperture Stability <sup>(6)</sup>                  | m-N/deg         | 0.65         |              |
| Resistance to Installation Damage <sup>(7)</sup>   | %SC / %SW / %GP | 95/93/90     |              |
| Resistance to Long-Term Degradation <sup>(8)</sup> | %               | 100          |              |
| Resistance to UV Degradation <sup>(3)</sup>        | %               | 100          |              |

The biaxial geogrid shall be delivered to the job site in roll form with each roll individually identified and nominally measuring 3.0 m (9.8 ft) or 4.0 m (13.1 ft) in width and 50.0 m (164 ft) in length. Also available in jumbo rolls, measuring 4.87 m (16.0 ft) in width and 100 m (328 ft) in length.

NOTES:

- <sup>(1)</sup> Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.
- <sup>(2)</sup> Nominal dimensions
- <sup>(3)</sup> True resistance to elongation when initially subjected to a load determined in accordance with ASTM D6637-01 without deforming test materials under load before measuring such resistance or employing "secant" or "offset" tangent methods of measurement so as to overstate tensile properties.
- <sup>(4)</sup> Load transfer capability determined in accordance with GRI-GG2-05 and expressed as a percentage of ultimate tensile strength.
- <sup>(5)</sup> Resistance to bending force determined in accordance with ASTM D5732-01, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang dimension. The overall Flexural Stiffness is calculated as the square root of the product of MD and XMD Flexural Stiffness values.
- <sup>(6)</sup> Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity.
- <sup>(7)</sup> Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818-06 and load capacity shall be determined in accordance with ASTM D6637-01.
- <sup>(8)</sup> Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments.
- <sup>(9)</sup> Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

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Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



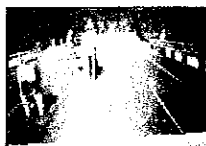
## AT THE CORE

A biaxial geogrid engineered specifically for subgrade stabilization and base reinforcement.

**DURABILITY RUNS DEEP**

For more information on this product and others, please visit us at [GSBworld.com](http://GSBworld.com), call 800-435-2008 or contact your local sales office.

**GSE**  
ENVIRONMENTAL



## NW-75 MEMBRANE PRODUCT DESCRIPTION AND PROPERTY DATA

NW-75 membrane is comprised of a rubberized asphalt waterproofing sealant adhesive with a non-woven pavement reinforcing grade polypropylene fabric laminated to the outer surface. A peel-off silicone treated release liner keeps the rubberized asphalt from sticking to the membrane when the roll is rolled up.

NW-75 membrane is designed for use prior to an asphalt overlay. If placed on joints and cracks of pavement it will not only waterproof but also reduce the extent and severity of reflective cracking. If installed on bridge decks, it acts as a waterproofing membrane, protecting reinforcing steel in the deck from corrosion.

The nonwoven geotextile fabric used as backing on the NW-75 has an advantage in that its open woven fibers will provide a mechanical bond to the asphalt overlay.

### PRECAUTIONS

The information in this data sheet is designed to be helpful to the reader. It is based on experience and information considered to be accurate and true. Readers should carefully consider and verify the information with investigation of any areas with uncertainty. Polyguard does not warrant the results to be obtained. Additionally, please read everything here in conjunction with Polyguard's conditions of sale, which are applicable to everything supplied by us. No statement here is intended for any use which would infringe any patent or copyright.

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### SAFETY

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Purchaser is responsible for complying with all applicable federal, state, or local laws and regulations covering use of the product including waste disposal.



| PROPERTY                              | TEST METHOD                              | MARV VALUE                                |
|---------------------------------------|------------------------------------------|-------------------------------------------|
| Thickness                             | ASTM D 1777<br>(using 1/2" presser foot) | 65 mils.                                  |
| Strip Tensile Strength                | ASTM D 882                               | 50 lbs./in. width                         |
| Grab Tensile Strength                 | ASTM D 4632                              | 160 lbs.                                  |
| Puncture Resistance                   | ASTM E154                                | 200 lbs.                                  |
| Permeance - Perms                     | ASTM E 96<br>(Method B)                  | 0.05 max.                                 |
| Elongation at break of fabric         | ASTM D 4632                              | 60 %                                      |
| Pliability at low temperatures -15 °F | ASTM D 146                               | No cracks in fabric or rubberized asphalt |

4-1-1 Highway 20' NW-75 Membrane Data Sheet - NW doc 9.2-24-10

P.O. Box 755  
Ennis, TX 75120  
PH: (214) 515-5000  
FX: (972) 875-9425

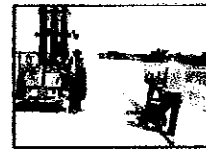
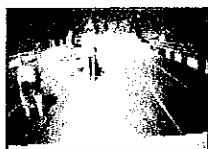
This information is based on our best knowledge, but  
POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.

# Polyguard

Highway Products  
Highway Products



## 650 RC LIQUID ADHESIVE

**POLYGUARD 650 RC LIQUID ADHESIVE** is an asphaltic solvent based liquid adhesive which meets ASTM-D-41, which replaces FS-SS-A-701.

### PROCEDURES TO FOLLOW:

**ON ALL CONCRETE BRIDGE DECK OR MILLED PAVEMENT SURFACES** - Liquid adhesive should always be used.

**ON NEW ASPHALT PAVEMENT SURFACES** - Liquid Adhesive is not necessary unless the temperature is too cool to obtain a good bond between membrane and pavement. This condition can occur between 40°F and 50°F.

**ON OLD ASPHALT OR CONCRETE PAVEMENT SURFACES (except milled surfaces)** - Liquid Adhesive is not required if pavement temperature is over 70°F and rising. If temperature is under 70°F, liquid adhesive is recommended.

### PHYSICAL PROPERTIES:

| PROPERTY/UNIT    | TEST METHOD | TYPICAL - ENGLISH | TYPICAL - METRIC |
|------------------|-------------|-------------------|------------------|
| Color            | -           | Black             | Black            |
| Specific Gravity | ASTM D 891  | .92               | .92              |
| Flash Point      | ASTM D 56   | 105° F            | 41° C            |

### APPLICATION PROCEDURES:

- **650 RC LIQUID ADHESIVE** must be stirred each day prior to use.
- SURFACE **SHALL BE** DRY, CLEAN AND FREE FROM FROST, DUST, OIL OR OTHER FOREIGN MATTER DETRIMENTAL TO THE ADHESION OF THE MEMBRANE.
- Normal **650 RC LIQUID ADHESIVE** coverage is approximately 400 sq. ft. per gallon (250 sq. ft per gallon on milled surfaces). **650 RC LIQUID ADHESIVE** shall be applied so the surface is entirely coated. Drying time for **650 RC LIQUID ADHESIVE** can vary due to temperatures and humidity. Adhesive is ready for membrane application when it does not adhere to fingertips, when touched lightly.
- Primed surfaces **must** be reprimed, if membrane is not applied within 24 hours.
- User should review Material Safety Data Sheet (MSDS) for this product and follow safety instructions listed therein.

*X:\Polyguard\650 RC Liquid Adhesive.doc R. 09/13/09*

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Ennis, TX 75120  
PH: (214) 515-5000  
FX: (972) 875-9425

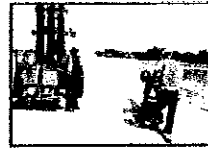
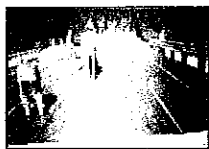
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# Polyguard

Highway Products  
Highway Products



## 650 MASTIC

### DESCRIPTION

*Polyguard 650 Mastic* is an asphalt/rubber based mastic which provides excellent adhesion to the *Polyguard 650 Waterproofing Membrane*, structural concrete, masonry, and wood surfaces.

*650 Mastic* is an integral part of the *Polyguard Waterproofing System* and substitutions are not allowed.

### USES

*650 Mastic* is designed to protect the termination edges, overlaps, patches, and any additional detailing areas. On vertical applications, *650 Mastic* must be applied on both the bottom and top terminations of the *Polyguard Waterproofing System*. *650 Mastic* should not be applied where it will be immediately covered by *650 Waterproofing Membrane*.

### TECHNICAL DATA

| PHYSICAL PROPERTIES         | TYPICAL RESULTS |
|-----------------------------|-----------------|
| Color                       | Black           |
| Specific Gravity            | 1.12            |
| Flash Point (PM Closed Cup) | 105°F (41°C)    |

### APPLICATION

*650 Mastic* is supplied either in a 5 gallon pail or in a 30 oz. caulking tube. If some material is applied with a caulking gun the bead must be struck with a trowel to insure the *650 Mastic* is worked into the termination edges. If the material is supplied in a pail, it may be applied with either a trowel or by hand using rubber gloves as precautions. When applied as a temporary cut-off trowel the *650 Mastic* over the membrane in a very thin layer, and allow to cure a minimum of 12 hours before placement of additional *650 Waterproofing Membrane*.

On the bottom edge of any vertical application, *650 Mastic* must be applied liberally to these areas. *650 Mastic* should also be applied around any protrusions, drains, or any areas requiring patching, or specific detailing.

### SAFETY, STORAGE, AND HANDLING INFORMATION

*650 Mastic* vapors are combustible. Refer to product label for handling precautions.

### PRECAUTIONS

The information in this data sheet is designed to be helpful to the reader. It is based on experience and information considered to be accurate and true. Readers should carefully consider and verify the information with investigation of any areas with uncertainty. *Polyguard* does not warrant the results to be obtained. Additionally, please read everything here in conjunction with *Polyguard's* conditions of sale, which are applicable to everything supplied by us. No statement here is intended for any use which would infringe any patent or copyright.

*Polyguard Products, Inc.* will replace F.O.B. Ennis, Texas, material not meeting our manufacturer's specifications one year from date of sale. Made in the U.S.A.

### SAFETY

All *Polyguard* products must be handled in a safe manner. Some products (some mastics or primers) contain solvents, and these deserve special attention to safety since their vapors are both flammable and harmful if inhaled. Also certain 2 component products contain especially hazardous components. Read both the product label and the Material Safety Data Sheet (MSDS) before use. Please refer to our website for the most recent literature updates and MSDS sheets at [www.PolyguardProducts.com](http://www.PolyguardProducts.com). Call *Polyguard* at 214-515-5000 if you have any questions.

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Ennis, TX 75120  
PH: (214) 515-5000  
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Polyguard is ISO 9001 certified since 1996.

Purchaser is responsible for complying with all applicable federal, state, or local laws and regulations covering use of the product including waste disposal.

#### **TECHNICAL SERVICE AND AVAILABILITY**

Technical assistance, information and *Polyguard* products are available through a nationwide network of distributors and representatives or contact *Polyguard Products, Inc.*

#### **LIMITED WARRANTY**

*Polyguard Products, Inc.* has no control over the storage, handling or use of this product, thus the guarantee is limited to the purchase price of the defective material only.

This product is not covered by *Polyguard Products* ISO 9001 Quality System.



JEFFERSON COUNTY  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
729 MAPLE ST / PO BOX 100  
HILLSBORO MO 63050  
WWW.JEFFCOMO.ORG

Invitation for Bid: **2016 EROSION CONTROL AND  
GEOSYNTHETIC MATERIALS**

Date Issued: **11-25-15**

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, DECEMBER 29, 2015, AT 2:00 P.M. LOCAL TIME.

**Specification  
Contact:**

KURT WENGERT  
Department of Public Works  
636-797-5427  
kwengert@jeffcomo.org

**Contract  
Contact:**

VICKIE PRATT  
Department of Administrative Services  
636-797-5380

**Mail (3) Three  
Complete Copies  
With Vendor And  
Bid Information As  
Shown In Sample:**

SAMPLE ENVELOPE

VENDOR NAME

VENDOR ADDRESS

CONTACT NUMBER

DEPARTMENT OF THE COUNTY CLERK

JEFFERSON COUNTY MISSOURI

729 MAPLE ST / PO BOX 100

HILLSBORO MO 63050-0100

SEALED BID: (BID NAME)

**Contract Term:**  
UPON APPROVAL OF THE  
COUNTY COUNCIL AND  
COUNTY EXECUTIVE

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for two additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

**Vendor  
Information:**

ASP Enterprises

Company Name

Mark Stirnaman

Authorized Agent (Print)

1099 Cassens Ind. Ct.

Address

Mark [Signature]

Signature

Fenton, MO 63026

City/State/Zip Code

Sales Representative

Title

636-343-4357

Telephone #

12/23/15

Date

43-1212222

Tax ID #

mstirnaman@aspeut.com

E-mail

636-343-4723

Fax #

Minimum Delivery Required (Circle One) Yes ☐ No ☒

If yes, amount \$ N/A

Additional Supplier Fees \$ Ø

Comments: \_\_\_\_\_

Approximate Time required for delivery from time of order 1-2 Days

Time required for order of materials you do not stock from time of order 7-10 Days

For parts picked up at your location, how many miles from the Hillsboro location to your supply dock  
24 miles ?

What are your regular business hours? 7:00 AM - 5:00 PM Mon-Fri

## **BID PRICES**

Contract shall be based on net price resulting from percentage discount from specified Manufacturers Price Sheet price lists. Current Manufacturers Price Sheet lists shall be submitted with the bidding documents.

Bidder must supply the County with a toll free telephone number for placing orders.

Do not use chain discounts; show one discount only.

Price increase/decrease by the manufacturer will be allowed under this contract; however, the percentage discount shall remain the same. The County shall be notified prior to any price increase or decrease.

Vendor is instructed to contact Kurt Wengert (636) 797-5427 regarding any and all questions concerning this contract.

## **TERM OF CONTRACT**

This contract will remain in effect for 12 months from the date of acceptance. The County of Jefferson reserves the right to renew this contract for two additional 12-month periods at the same discounts, terms and conditions with the written consent of the successful bidder.

## **SUPPLY CATEGORY/BID**

Geosynthetic supplies categories will be as listed below and should include all types offered. The pricing offered may be any such as; MSRP, List, Retail, State bid, Government, Dealer, Contractor, Fleet, all product lines, or other.

## **EXAMPLE BID**

| <b>SUPPLIES CATEGORY</b>       | <b>PRICING OFFERED</b> | <b>DISCOUNT</b> |
|--------------------------------|------------------------|-----------------|
| Erosion Control Geotextiles    | MSRP                   | XX% off List    |
| Waterproofing Geomembranes     | Contractor             | none            |
| Geogrids (Biaxial or Triaxial) | Government             | per State bid   |
| Misc. Geosynthetics*           | Dealer                 | XX% off List    |

\* The County reserves the right to investigate all types of geosynthetic materials available and select from any category needed for the desired use.



## BID SHEET

Multiple supply categories may be bid. Bidders shall include a copy of their product catalog or listing of product lines available that they will offer and a listing of their retail locations. Multiple vendors will be selected for the convenience of the County.

| SUPPLIES CATEGORY              | PRICING OFFERED   | DISCOUNT (if any) |
|--------------------------------|-------------------|-------------------|
| <u>Geotextile Fabric</u>       | <u>Contractor</u> | <u>none</u>       |
| <u>Geogrid</u>                 | <u>Contractor</u> | <u>none</u>       |
| <u>Erosion Control Blanket</u> | <u>Contractor</u> | <u>none</u>       |
| <u>Sediment Control</u>        | <u>Contractor</u> | <u>none</u>       |
| <u>Misc. Geosynthetics</u>     | <u>Contractor</u> | <u>none</u>       |

Note: volume discounts and delivery costs will be negotiated for each order purchased.

# General Line Card

**AISP**  
ENTERPRISES  
Quick Supply Co.

The Midwest's Most Trusted  
Site Solutions Provider

## Solutions

### Geosynthetics

#### Filter Fabrics

#### Stabilization Fabrics

#### Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

#### Specialty Fabrics

#### Composite Geomembranes

- GCLS, PVC, HDPE, LLDPE, EPDM, Granular Liners

### Erosion Control

#### Basic Hydraulically Applied Products

- Basic Mulches
- Wood
- Paper
- Blends

#### High-Performance Hydraulically Applied Products

- BFMS
- FGMS
- Additives

#### Temporary Erosion Control Blankets

- Short-Term ECBS
- Extended-Term ECBS
- Spray-On ECBS

#### Permanent Erosion Control Blankets Bioengineering

- Turf Reinforcement Mats

#### Structural BMPs

- Transition Mats
- Cellular Confinement
- Composite Vegetated Armor System
- Articulating Concrete Block
- Gabions
- Grout-Filled Geotextile Mats
- Composite Systems

#### Vegetation Establishment

- Turf Seed
- Fertilizers
- Native Seeding

### Sediment Control

#### Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

#### Perimeter Protection

- High- and Low-Porosity Silt Fence, Straw Wattles, Filter Berms

### Flocculants and Water Treatment

- Polymer-Based and Natural Flocculants

### Sediment Basin Skimmers

### Dewatering Bags

### Stormwater Management

#### Water Quality

- Inlet Filter Boxes
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media

#### Water Quantity

- Modular Underground Storage Systems
- Passive Integrated Chamber Irrigation System

### Drainage

- HDPE Swale Liner
- Pipe, Fittings
- Drainage Composites

### Inlet Structures

- PVC
- Landscape

### Permeable Pavers

- Articulating Concrete Block Paver Mats
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

### Coir Fiber Logs - 12", 16" and 20" logs, Natural and Synthetic

### Vegetated Reinforced Soil Slo

### Plant Plugs, Native Seed

### Jute Nettings, Coir Nettings

### Specialty

#### Soil Anchors

#### Vinyl Sheet Pile

#### Root Barrier Systems

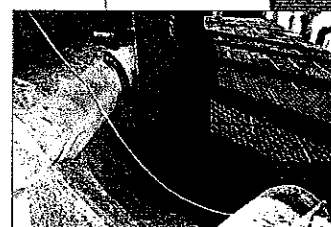
#### Truncated Domes

#### Safety Fence

#### De-Icing products



Flexterra Flexible Growth Medium applied on large DOT slope in St. Louis.



Atlantis D-Raintanks installed on a Lift Station project in Omaha, NE.



PaveDrain Permeable Articulating Concrete Block Mat Paving System

line card



JEFFERSON COUNTY  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
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**Specification  
Contact:**

**KURT WENGERT**  
Department of Public Works  
636-797-5427  
kwengert@jeffcomo.org

**Contract  
Contact:**

**VICKIE PRATT**  
Department of Administrative Services  
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**Mail (3) Three  
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VENDOR NAME

VENDOR ADDRESS

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**Vendor  
Information:**

Nuway Concrete Forms, Inc  
Company Name

Howard H. Sweet III  
Authorized Agent (Print)

4190 Hartmeister Ave  
Address

[Signature]  
Signature

St Louis MO 63125  
City/State/Zip Code

Outside Sales Support  
Title

314-544-1214  
Telephone #

12/28/2015 10801031  
Date Tax ID #

hsweet@nuwayinc.com  
E-mail

314-544-7665  
Fax #

# ***nu way***<sup>TM</sup>

## ***Everything for the Contractor!***

**Re:** After Hours Emergency Policy

---

Nu Way offers an after hour's service to its customers. This service is only available to customers with credit accounts that are in good standing.

The initial fee for the after hour's service is \$300, this includes one employee opening the store and one hour of time, after the first hour, the charge is \$100 each additional hour. The charge for additional employees if needed, is \$100 per hour, per employee.

Delivery will be available for and additional charge.



4190 Hoffmeister Avenue • Saint Louis, Missouri 63125-2298  
www.nuwayinc.com • 314.544.1214 • FAX 314.544.7665

**SAINT LOUIS • JEFFERSON CITY • JACKSON • WENTZVILLE, MO • TROY, IL**

Minimum Delivery Required (Circle One) Yes No

If yes, amount \$ \_\_\_\_\_

Additional Supplier Fees \$ 5.00 Del Fee Comments: \_\_\_\_\_

Approximate Time required for delivery from time of order 1-2 Days

Time required for order of materials you do not stock from time of order 7-10 working Days

For parts picked up at your location, how many miles from the Hillsboro location to your supply dock  
35.9 miles?

What are your regular business hours? Mon-Fri 7:00-5:00 Sat 8:00-12:00

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| SUPPLIES CATEGORY              | PRICING OFFERED | DISCOUNT (if any)    |
|--------------------------------|-----------------|----------------------|
| <u>Non Woven Filter Fabric</u> | <u>LIST</u>     | <u>10 % OFF LIST</u> |
| <u>WOVEN FILTER FABRIC</u>     | <u>LIST</u>     | <u>10 % OFF LIST</u> |
| <u>SELT FENCING</u>            | <u>LIST</u>     | <u>10 % OFF LIST</u> |
| <u>STRAW WATTLE / TRUE DAM</u> | <u>LIST</u>     | <u>10 % OFF LIST</u> |
| <u>STRAW</u>                   | <u>LIST</u>     | <u>10 % OFF LIST</u> |

Note: volume discounts and delivery costs will be negotiated for each order purchased.