

## Product Evaluation

### RE: Review of NuDrain DN50-2 (JDR J-Drain 302)

#### **PRODUCT**

NuDrain DN50-2 consists of an HDPE geonet drainage core with a filter fabric bonded to both sides. It is fabricated by JDR Enterprises Ltd located at Alpharetta, Georgia, USA ([www.j-drain.com](http://www.j-drain.com)) and supplied in Alberta by Nilex Inc ([www.nilex.com](http://www.nilex.com)).

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS**

J-DRAIN 302 geonet drainage core is virtually crush proof, yet flexible enough to conform to irregular surfaces. Due to the crush proof nature, geonet drainage composites can be used in the extreme cases with heavy loads and/or heavy vehicular traffic. It is lightweight, easy to install, and has very high compressive strengths

##### **DESCRIPTION**

J-DRAIN 302 consists of an HDPE geonet drainage core with a filter fabric bonded to both sides. The filter fabric on both the sides help retain soil or sand particles as well as freshly placed concrete or grout allowing filtered water from both the sides pass through drainage core.

##### **POTENTIAL USAGE**

JDR J-drain 302 can be used along foundation walls or retaining walls. It is engineered for double-sided intermediate flow requirements with high soil pressure conditions in vertical and horizontal applications and available with non-woven geotextile filter fabrics meeting AASHTO M288-06 specifications for survivability.

##### **STANDARDS**

GRI GN1 - Test Method for Compression Behavior of Geonets.  
ASTM D4716/D4716 - Standard Test Method for determining the (In-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head.

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE**

Alberta Transportation has no experience with this product

##### **APPLICABLE STANDARDS**

Alberta Transportation does not have a standard for Geodrains.

##### **RECOMMENDATIONS**

NuDrain DN50-2 (JDR J-Drain 302) be listed as a Potential Product under Alberta Transportation Products List, Geosynthetics – Geonet & Geocomposite – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

##### **RESTRICTIONS ON USE**

Caveat: The JDR302 product can come with four different strength non-woven geotextile. The strength of fabric shall be determined by a Professional Engineer (registration with APEGA).

#### **TRIAL PROJECTS**

Rishi Adhikari  
cc Innovations Evaluation Committee – Roger Skirrow,