Florida Construction Innovations, LLC.

Neodymium (Rare Earth) Magnetic Properties

Data Provided by – Stafast, MPI Magnetics, First-4- Magnets & Total Element Magnets

For

Florida Construction Innovations, LLC.

Stafast Magnet Item# WHEELM3450 – N35

Description – 88mm Dia. X 8.5mm Thick Disc rubberized mounting magnet, with 3/8" sleeve over a ¼" – 20 male threaded mounting stud.

Licensed NdFeB, Grade N35

Optimum Working Conditions & Care

1. Protect from Corrosion use (Rubber Coated Neodymium Magnets).
2. Maximum Operating Temperature(s) – (176 F) or (150 C).
3. Avoid strong demagnetizing fields.

Magnetic Strength Retainage

1. Permanent Magnetic Strength – should lose no more than 5% every 100 hundred years.
2. Typical loss is 1% over a 100 Year period.

WHEELM3450 – N35 Testing Data – 3.5" diameter magnet.

- Pull testing data collect from Stafast – NOTE: ALL TESTING WAS DONE ON 16 GUAGE STEEL.

- Magnetic downward force test results (testing occurred 3X's) = 86, 87 and 95lbs of force to remove the fully seated magnet.
- Magnetic vertical sliding force test results (testing occurred 3X's) = 26, 27 and 34lbs of downward force to slide the rubberized magnet.

Florida Construction Innovations, LLC. (FCI, LLC.) – Product Liability Disclaimer for the WHEELM3450-N35

1. Failure to follow the data guidelines contained within this document will void the warranty provided through FCI, LLC.
2. This product can be left in permanent configuration, based on the afore-mentioned conditions within this document.
3. Magnets could be unscrewed from the CMS-211 device and reused in a temporary configuration (See Figures 1.1 & 1.2).
4. This product is NOT meant to be used as an anchor point for life safety, the product is not tested or rated for anything other than safely routing electrical cords, welding leads and low voltage data cabling.

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FIGURE 1.1

FIGURE – 1.2