N-12® Mega Green® Plain End Pipe (per ASTM F2648)

N-12 Mega Green Plain End pipe (per ASTM F2648) is a gravity-flow, watertight pipe, which has recycled content. Mega Green Plain End pipe is available in a range of diameters from 4”-60” (100-1500 mm).

N-12 Mega Green Plain End pipe, which is made from high-density polyethylene (HDPE), delivers superior value, while providing physical strength and structural design that cannot be matched by traditional materials.

Applications
- Culverts/Cross Drains
- Slope/Edge Drains
- Golf, Turf & Recreation
- Foundation Drains
- Retention/Detention Systems
- Storm Sewers
- Parking Lot Drainage
- Mining/Forestry/Industrial

Features
- Available in 20’ (6 m) lengths - pipe can be field cut to the desired length
- 4”-60” (100-1500 mm) diameters available
- Certified to meet ASTM F2648 requirements
- Superior hydraulics - smooth interior ensures no debris or sediment build-up
- Structural strength supports H-25 or HL-93 live loads with 12” (300 mm) minimum cover; 60” (1500 mm) pipe requires 24” (600 mm) cover

Benefits
- Easy-to-handle, safe, light weight pipe requires less labor and equipment for faster installation and reduced costs
- Provides superior resistance to chemicals, road salt, motor oil and gasoline - will not rust or deteriorate
- Withstands repeated freeze/thaw cycles and continuous subzero temperature
- Coupling bands are available
ADS N-12® Mega Green Plain End Pipe Specification

**Scope**
This specification describes 4- through 60-inch (100 to 1500 mm) ADS N-12 Mega Green Plain End pipe (per ASTM F2648) for use in gravity-flow land drainage applications.

**Pipe Requirements**
ADS N-12 Mega Green Plain End pipe shall have a smooth interior and annular exterior corrugations.
- 4- through 60-inch (100 to 1500 mm) shall meet ASTM F2648
- Manning’s “n” value for use in design shall be 0.012.

**Joint Performance**
Pipe shall be joined with coupling bands covering at least two full corrugations on each end of the pipe. Standard connections shall meet or exceed the soil-tight requirements of ASTM F2648.

Gasketed connections shall incorporate a closed-cell synthetic expanded rubber gasket meeting the requirements of ASTM D1056 Grade 2A2. Gaskets, when applicable, shall be installed by the pipe manufacturer.

**Fittings**
Fittings shall conform to ASTM F2306.

**Material Properties**
Material for pipe production shall be an engineered compound of virgin and recycled high-density polyethylene conforming with the minimum requirements of cell classification 424420C, (ESCR Test Condition B) for 4- through 10-inch (100 to 250 mm) diameters, and 435420C, (ESCR Test Condition B) for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The design engineer shall verify compatibility with overall system including structural, hydraulic, material and installation requirements for a given application.

**Installation**
Installation shall be in accordance with ASTM D2321 and ADS’ published installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot (0.3 m), and for 60-inch (1500 mm) diameters, the minimum cover shall be two feet (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1 (compacted) or Class 2 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.02. Contact your local ADS representative or visit our website adspipe.com for a copy of the latest installation guidelines.

**Pipe Dimensions***

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Pipe I.D. (in mm)</th>
<th>Pipe O.D. (in mm)</th>
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<tbody>
<tr>
<td></td>
<td>4 (100)</td>
<td>4.8 (122)</td>
</tr>
<tr>
<td></td>
<td>6 (150)</td>
<td>6.9 (175)</td>
</tr>
<tr>
<td></td>
<td>8 (200)</td>
<td>9.1 (231)</td>
</tr>
<tr>
<td></td>
<td>10 (250)</td>
<td>11.4 (290)</td>
</tr>
<tr>
<td></td>
<td>12 (300)</td>
<td>14.5 (368)</td>
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<tr>
<td></td>
<td>15 (375)</td>
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<tr>
<td></td>
<td>18 (450)</td>
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<tr>
<td></td>
<td>24 (600)</td>
<td>28 (711)</td>
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<td>48 (1219)</td>
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<tr>
<td></td>
<td>48 (1200)</td>
<td>54 (1372)</td>
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<tr>
<td></td>
<td>60 (1500)</td>
<td>67 (1702)</td>
</tr>
</tbody>
</table>

*Check with sales representative for availability by region. **Pipe O.D. values are provided for reference purposes only, values stated for 12- through 60-inch are ±1 inch. Contact a sales representative for exact values.