



**ULTRATECH**  
INTERNATIONAL, INC.

# Ultra-Grate Guard Specification

**Product:** Ultra-Grate Guard

**Manufacturer:**

UltraTech International, Inc.  
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Jacksonville, FL 32256 USA

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## 1.0 Description of Work

1.1 This work shall consist of furnishing, installing, maintaining, and removing Ultra-Grate Guard sediment control device as directed by the engineer or as shown on the site drawings.

## 2.0 Ultra-Grate Guard Materials

2.1 There two types of Ultra-Grate Guard, available in High or Regular Flow, Hi-Vis green

**Ultra-Grate Guard (Standard)** - Overflows optional

**Ultra-Grate Guard Curb** - with Curb Deflector, Overflows optional

2.2 Ultra-Grate Guard shall be manufactured from a specially designed woven polypropylene geotextile and sewn by a double needle machine, using a high strength nylon thread.

2.3 Ultra-Grate Guard shall be manufactured to fit the opening of the catch basin or drop inlet. Ultra-Grate Guard will have the following features: two lifting straps attached at the bottom to facilitate emptying; Ultra-Grate Guard shall have lifting straps as an integral part of the system to be used to lift unit from the basin; Ultra-Grate Guard shall have a hook and loop closure on one end to allow for storm grate insertion/installation.

2.4 The Ultra-Grate Guard unit shall utilize a woven fabric with the following characteristics:

## Specifications for Ultra-Grate Guard (Regular Flow)

Property	Test Method	Units	Test Results
Grab Tensile	ASTM D4632	lbs	355 x 240
Grab Elongation	ASTM D4632	%	16 x 7
Puncture	ASTM D6241	lbs	950
Trapezoid Tear	ASTM D4533	lbs	115 x 90
AOS	ASTM D4751	US Sieve	40
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup>	N/A
Permittivity	ASTM D4491	sec <sup>-1</sup>	0.5

## Specifications for Ultra-Grate Guard (High Flow)

Property	Test Method	Units	Test Results
Grab Tensile	ASTM D4632	lbs	400 x 275
Grab Elongation	ASTM D4632	%	40 x 22
Puncture	ASTM D6241	lbs	654
Trapezoid Tear	ASTM D4533	lbs	165 x 140
AOS	ASTM D4751	US Sieve	30
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup>	250
Permittivity	ASTM D4491	sec <sup>-1</sup>	0.25

### 3.0 Construction Sequence

- 3.1 To install Ultra-Grate Guard in the catch basin, remove the grate from the catch basin and place on the ground. Stand the grate up on one end. Slide the Ultra-Grate Guard onto the grate. Lay grate/Grate Guard back down on the ground using lifting straps. Use lifting straps on Ultra-Grate Guard to lift grate and Grate Guard and replace on catch basin.
- 3.2 Remove accumulated sediment, dirt and debris from surface of Ultra-Grate Guard after rain events or as needed.
- 3.3 To remove Ultra-Grate Guard, lift grate/Grate Guard from catch basin using lifting straps. Open hook and loop enclosure. Stand grate on its end so the hook and loop enclosure is facing the ground. Lift Grate Guard and separate from grate.
- 3.4 Ultra-Grate Guard is reusable. Once the construction cycle is complete, remove Grate Guard from the basin and clean. Ultra-Grate Guard should be stored out of sunlight until the next use.

### 4.0 Basis of Payment

- 4.1 Payment for all Ultra-Grate Guard units used during construction is to be included in the bid price for the overall erosion and sediment control plan unless unit price is requested.

Note: This information is provided as reference only and is not intended as a warranty or guarantee. UltraTech International, Inc. assumes no liability in connection with the use of this information (8/1/24).