

# TRIDENT CurbScreen Material Specifications

## TRIDENT CurbScreens

### TCS101

#### Trident CurbScreen

6" High X 48" Long X 2" Deep with .5" square mesh.

Trident CurbScreen Frames are constructed of post consumer recycled UV Stabilized HDPE.

PROPERTY	ASTM METHOD	UNITS	VALUE
Specific Gravity	D6111	Cu. In. / Lbs	0.0275/0.0216-
Water Absorption	D570	%	< 0.1
Tangent Modulus	D6109-03	Psi	117,000
Secant Modulus 2.1% Strain	D6109-03	Psi	86,000
Stress @ 3% Strain	D6109-03	Psi	1,598,000
Coefficient of Linear Expansion	D6341-98	In/in ° f	0.000064
Screw Withdrawal	D6117-97	Pounds force	703

All assembly hardware is constructed from 316Stainless Steel

The TRIDENT CurbScreens are trimmed along the bottom and both sides with a polymatrix fabric, specially designed to flow water while holding sediment back and adsorbing up to 15 times its own weight in road oils.

TRIDENT CurbScreens are SABRC certified post consumer recycled plastics.

# TRIDENT CurbScreen Material Specifications

## TCS102

### Trident CurbScreen

4" High X 48" Long X 2" Deep with .5" square mesh.

Trident CurbScreen Frames are constructed of post consumer recycled UV Stabilized HDPE.

PROPERTY	ASTM METHOD	UNITS	VALUE
Specific Gravity	D6111	Cu. In. / Lbs	0.0275/0.0216-
Water Absorption	D570	%	< 0.1
Tangent Modulus	D6109-03	Psi	117,000
Secant Modulus 2.1% Strain	D6109-03	Psi	86,000
Stress @ 3% Strain	D6109-03	Psi	1,598,000
Coefficient of Linear Expansion	D6341-98	In/in ° f	0.000064
Screw Withdrawal	D6117-97	Pounds force	703

All assembly hardware is constructed from 316Stainless Steel

The TRIDENT CurbScreens are trimmed along the bottom and both sides with a polymatrix fabric, specially designed to flow water while holding sediment back and adsorbing up to 15 times its own weight in road oils.

TRIDENT CurbScreens are SABRC certified post consumer recycled plastics.

# TRIDENT CurbScreen Material Specifications

## TCS103

### Trident CurbScreen

SIZED per customer specification.

Trident CurbScreen Frames are constructed of post consumer recycled UV Stabilized HDPE.

PROPERTY	ASTM METHOD	UNITS	VALUE
Specific Gravity	D6111	Cu. In. / Lbs	0.0275/0.0216-
Water Absorption	D570	%	< 0.1
Tangent Modulus	D6109-03	Psi	117,000
Secant Modulus 2.1% Strain	D6109-03	Psi	86,000
Stress @ 3% Strain	D6109-03	Psi	1,598,000
Coefficient of Linear Expansion	D6341-98	In/in ° f	0.000064
Screw Withdrawal	D6117-97	Pounds force	703

All assembly hardware is constructed from 316Stainless Steel

The TRIDENT CurbScreens are trimmed along the bottom and both sides with a polymatrix fabric, specially designed to flow water while holding sediment back and adsorbing up to 15 times its own weight in road oils.

TRIDENT CurbScreens are SABRC certified post consumer recycled plastics.

# TRIDENT CurbScreen Material Specifications

## TRIDENT CurbScreen PARTS

### TCS201

TRIDENT End Re-Finishing Kit for standard 6" TRIDENT CurbScreen.

This kit is for re-finishing a TRIDENT CurbScreen that has been cut to fit an inlet. This kit consists of:

1 – End Member HDPE

1 – Face Plate Member HDPE

4 - #7 X 1.25" Stainless Steel #1 Square Drive self drilling, self taping secure fasteners.

2 - #7 X 1.00" Stainless Steel #1 Square Drive self drilling, self taping secure fasteners.

### TCS202

TRIDENT End Re-Finishing Kit for standard 4" TRIDENT CurbScreen.

This kit is for re-finishing a TRIDENT CurbScreen that has been cut to fit an inlet. This kit consists of:

1 – End Member HDPE

1 – Face Plate Member HDPE

4 - #7 X 1.25" Stainless Steel #1 Square Drive self drilling, self taping secure fasteners.

2 - #7 X 1.00" Stainless Steel #1 Square Drive self drilling, self taping secure fasteners.

### TCS203

Trident End Taper Cap for standard 6" TRIDENT CurbScreen. This kit is for transitioning a TRIDENT CurbScreen that protrudes out of an inlet into the street. An angle is cut on one end (can be filed modified) then screwed to the protruding end of the CurbScreen. The End Taper Cap is then cut to the right length and an angle cut on the final end to meet the curb face as flush as possible.

This kit consists of:

1 – 6" X 10" X .75" Transition HDPE

4 - #7 X 1.25" Stainless Steel #1 Square Drive self drilling, self taping secure fasteners.

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## **TCS204**

TRIDENT End Taper Cap for standard 4" TRIDENT CurbScreen. This kit is for transitioning a TRIDENT CurbScreen that protrudes out of an inlet into the street back to the curb line. An angle is cut on one end (can be field modified) then screwed to the protruding end of the CurbScreen. The End Taper Cap is then cut to the right length and an angle cut on the final end to meet the curb face as flush as possible.

This kit consists of:

1 – 4" X 10" X .75" Transition HDPE

4 - #7 X 1.25" Stainless Steel #1 Square Drive self drilling, self tapping secure fasteners.

## **TCS205**

TRIDENT Replacement Gasket

The TRIDENT CurbScreens Gasket is 4" X 60" and are trimmed along the bottom and both sides with a polymatrix fabric, specially designed to flow water while holding sediment back and adsorbing up to 15 times its own weight in road oils. This gasket can be used as a replacement to an original gasket that has become oil and sediment laden. The gasket material can also be used as a spacer to fill a gap in the side or below a TRIDENT CurbScreen. The TRIDENT Replacement Gasket can be used the 4", 6" or any size TRIDENT CurbScreen.

## **TCS206**

TRIDENT Replacement Screen

This screen is provided in HDPE 48" X 6" X 0.2" in the standard 0.5" square opening mesh. The TRIDENT Replacement Screen can be used the 4", 6" or any size TRIDENT CurbScreen.

## **TCS207**

Trident Replacement Face Plate

This replacement face plate is 48" X 0.75" X 0.25" HDPE

This kit is also provided with 4 - #7 X 1.25" Stainless Steel #1 Square Drive self drilling, self tapping secure fasteners. This kit can be used to

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replace a top, bottom or shorter member face plate that retains the screen to the frame.

### TCS208

#### TRIDENT Replacement Screws

#7 X 1.25" Stainless Steel #1 Square Drive self drilling, self tapping secure fasteners.

## MOUNTING HARDWARE

### TCS301

TRIDENT Binders are rated for 250 pounds of holding strength. The binders are outdoor rated, weather-resistant /UV-stabilized and made of Black nylon. Trident Binders have a temperature range of -40° to +185° F. The Trident Binders are UL recognized and feature a Double-lock design. These specially designed binders have two rows of holding ridges for better holding strength and security.

These Binders are used to secure the TRIDENT CurbScreens to each other, to an existing safety bar or to any fixture/mounting hardware to help ensure the TRIDENT CurbScreens stay firmly installed

### TCS302

#### TRIDENET Concrete Anchor Kit.

This kit consists:

2 - .375" X 1.5" long drop in anchors 316 Stainless Steel.

2 - .375" X 2" long 316 Stainless Steel hex head cap screws.

Anchors meet GSA specifications. UL listed, FM approved, and listed on International Conference of Building Officials (ICBO) report. Anchors are rated (Tension 3,960 Shear 4,160. Ultimate shear and tension ratings are based upon test installations in 4000 psi concrete)

(Anchor holes are to be predrilled 0.5" diameter X 1.5" deep and the **anchors require a setting tool**)

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These TRIDENT Concrete anchors are used as a mounting point when one does not exist. Typically they will be used as stops to prevent the TRIDENT CurbScreens moving backwards. You can also use TRIDENT Binders to secure the TRIDENT anchor bolts. Finally you may choose to a drill hole in the CurbScreen frame and bolt through the frame to the concrete anchor.

### **TCS303**

#### TRIDENT 4" Flat Safety Mounts

316 Stainless Steel hardware

T3636 Aluminum Pipe

Designed for curb inlet openings between 3.75" up to 5.25"

The TRIDENT Flat Safety Mounts were designed to give vertical support when safety bars or other supports were not available. The TRIDENT Flat Safety Mounts are to be typically installed 2" inside of the curb line as long as the top and bottom inside of the curb opening is flat. If the inside surfaces are not flat, consider using the TRIDENT Universal Safety Mounts which are designed for up to 20 degrees of angle.

### **TCS304**

#### TRIDENT 6" Flat Safety Mounts

316 Stainless Steel hardware

T3636 Aluminum Pipe

Designed for curb inlet openings between 5.25" up to 7.50"

The TRIDENT Flat Safety Mounts were designed to give vertical support when safety bars or other supports were not available. The TRIDENT Flat Safety Mounts are to be typically installed 2" inside of the curb line as long as the top and bottom inside of the curb opening is flat. If the inside surfaces are not flat, consider using the TRIDENT Universal Safety Mounts which are designed for up to 20 degrees of angle.

### **TCS305**

#### TRIDENT 8" Flat Safety Mounts

316 Stainless Steel hardware

T3636 Aluminum Pipe

## **TRIDENT CurbScreen Material Specifications**

Designed for curb inlet openings between 7.50" up to 10.00"

The TRIDENT Flat Safety Mounts were designed to give vertical support when safety bars or other supports were not available. The TRIDENT Flat Safety Mounts are to be typically installed 2" inside of the curb line as long as the top and bottom inside of the curb opening is flat. If the inside surfaces are not flat, consider using the TRIDENT Universal Safety Mounts which are designed for up to 20 degrees of angle.

### **TCS306**

#### TRIDENT 4" Universal Safety Mounts

316/303 Stainless Steel hardware

T3636 Aluminum Pipe

Designed for curb inlet openings between 3.75" up to 5.25"

The TRIDENT Universal Safety Mounts were designed to give vertical support when safety bars or other supports were not available. The TRIDENT Universal Safety Mounts are to be typically installed 2" inside of the curb line as long as the top and bottom inside of the curb opening is on an angle of 20 degrees or less. If the inside surfaces are flat, consider using the TRIDENT Flat Safety Mounts which are designed for flat mounting surfaces.

### **TCS307**

#### TRIDENT 6" Universal Safety Mounts

316/303 Stainless Steel hardware

T3636 Aluminum Pipe

Designed for curb inlet openings between 5.25" up to 7.50"

The TRIDENT Universal Safety Mounts were designed to give vertical support when safety bars or other supports were not available. The TRIDENT Universal Safety Mounts are to be typically installed 2" inside of the curb line as long as the top and bottom inside of the curb opening is on an angle of 20 degrees or less. If the inside surfaces are flat, consider using the TRIDENT Flat Safety Mounts which are designed for flat mounting surfaces.

### **TCS308**

# TRIDENT CurbScreen Material Specifications

## TRIDENT 8" Universal Safety Mounts

316/303 Stainless Steel hardware

T3636 Aluminum Pipe

Designed for curb inlet openings between 7.50" up to 10.00"  
The TRIDENT Universal Safety Mounts were designed to give vertical support when safety bars or other supports were not available. The TRIDENT Universal Safety Mounts are to be typically installed 2" inside of the curb line as long as the top and bottom inside of the curb opening is on an angle of 20 degrees or less. If the inside surfaces are flat, consider using the TRIDENT Flat Safety Mounts which are designed for flat mounting surfaces.

## **TCS309**

### TRIDENT Quick Release Mounts

TO BE ANNOUNCED

## **TOOLS**

## **TCS401**

### TRIDENT #1 Square Drive Tip

The TRIDENT Square Drive Tip digitally cut to tightly and securely fit in the square drive socket. A bit holder in a screwdriver or power driver will be needed to use the TRIDENT #1 Square Drive Tip

## **TCS402**

### TRIDENT Concrete Anchor Installation Tool

The TRIDENT Concrete Anchor Installation Tool is used to firmly lock the TRIDENT Concrete Anchors in place, once the hole has been drilled in the concrete and the anchor correctly placed in the hole. A hammer will be needed in conjunction with the TRIDENT Concrete Anchor Installation Tool to complete securely setting the anchor.