

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
Qualified Products List Report



Parameters: **Product Category:** 45 - MASH Approved Safety Hardware
Approved Begin Date: 01/01/1990
Approved End Date: 01/01/2050
Display Expired Materials? No
Expired Begin Date: 01/01/1990
Expired End Date: 01/01/2050
Display Address Info For Sources? No

Product Category: 45 - MASH Approved Safety Hardware

Seciton: A-Longitudinal Barriers

Material: QPL.45.002 Thrie Beam Guardrail

89901059 - Gregory Industries Inc

Trade Name

Guardian 5

MASH TL-5

Thrie beam

Evaluation #

18015

Product Category: 45 - MASH Approved Safety Hardware

Seciton: A-Longitudinal Barriers

Material: QPL.45.003 Cable Barrier Systems

89900132 - Brifen USA

Trade Name

Brifen MASH O-Post and MASH MGT

MASH TL-3. Brifen Wire Rope Safety Fence, O-Post; Brifen End Terminal. For slopes 6:1 or flatter.

Evaluation #

20093

89900409 - Gibraltar

Trade Name

MASH 2016 Cable Barrier System

MASH TL-3. Gibraltar Cable Barrier System with 4 cables, C-section steel posts, hardware, and Gibraltar end terminals. Shall be installed with 7-foot post spacing. For 4:1 slopes or flatter.

Evaluation #

21072

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: A-Longitudinal Barriers

Material: QPL.45.007

Alt. Systems: Roller barriers

89901533 - ETI USA, Inc.

Trade Name

Evaluation #

ETI-GR02-TL4

18094

MASH TL-4. Approved by MASH Committee for use with Thrie Beam to ETI Roller Barrier Transition.

89901529 - KSI

Trade Name

Evaluation #

KSI Global Safety Roller Barrier

18095

MASH TL-4. Approved by MASH Committee for use with Safety Roller Barrier MASH TL-3 Transition to W-Beam.

Product Category: 45 - MASH Approved Safety Hardware

Seciton: A-Longitudinal Barriers

Material: QPL.45.011

Attachments

89901574 - Durisol USA, Inc.

Trade Name

Evaluation #

Acrylite Soundstop Structure Mounted NB

21014

TL-4 Noise barrier system. Max. Height from Pavement = 17 ft. Actual height will depend on required height as determined by noise study, allowable height as determined by wind load calculations, and other factors.

Ground Mounted NB System TL-3

22069

TL-3 Noise barrier system. Max. Height from Pavement = 17.3 ft. Actual height will depend on required height as determined by noise study, allowable height as determined by wind load calculations, and other factors.

Ground Mounted NB System TL-4

22070

TL-4 Noise barrier system. Max. Height from Pavement = 17.3 ft. Actual height will depend on required height as determined by noise study, allowable height as determined by wind load calculations, and other factors.

Structure Mounted Aluminum NB System

22071

TL-4 Noise barrier system. Max. Height from Pavement = 17 ft. Actual height will depend on required height as determined by noise study, allowable height as determined by wind load calculations, and other factors.

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: B-Guardrail End Terminals

Material: QPL.45.014

Tangential

89900775 - Road Systems Inc

<u>Trade Name</u>	<u>Evaluation #</u>
MSKT (TL-2) MASH TL-2 (S-GRT-3) Type 21 Guardrail Terminal	17033
MSKT (TL-3) MASH TL-3 (S-GRT-2) Type 38 Guardrail Terminal	16048

89901319 - SPIG Industry, LLC

<u>Trade Name</u>	<u>Evaluation #</u>
SPIG Guardrail End Treatment --	--
SPIG Guardrail End Treatment (SGET) MASH TL-3.	19069

89900959 - Valtir, LLC

<u>Trade Name</u>	<u>Evaluation #</u>
SoftStop (TL-2) MASH TL-2 (S-GRT-3) Type 21 Guardrail Terminal	17029
SoftStop (TL-3) MASH TL-3 (S-GRT-2) Type 38 Guardrail Terminal	13058

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Product Category: 45 - MASH Approved Safety Hardware
Seciton: B-Guardrail End Terminals
Material: QPL.45.016 Median Guardrail End Terminals

89900959 - Valtir, LLC

<u>Trade Name</u>	<u>Evaluation #</u>
MATT (Median Attenuating TREND Terminal)	22030
MASH TL-3. Median W-beam tangent redirective guardrail end terminal (approach or departure).	

Product Category: 45 - MASH Approved Safety Hardware
Seciton: C-Crash Cushions
Material: QPL.45.017 Reusable

89900950 - Traffix Devices Inc

<u>Trade Name</u>	<u>Evaluation #</u>
Delta Crash Cushion	21032
MASH TL-3.	

89900959 - Valtir, LLC

<u>Trade Name</u>	<u>Evaluation #</u>
QuadGuard M Wide	20144
MASH TL-3. Redirective, non-gating, reusable crash cushion.	
QuadGuard M10	12009
MASH TL-3 Non-gating reusable system. Hazards narrower than 36". Concrete pad required.	
QuadGuard M10 24 in. TL-2	22059
MASH TL-2. Redirective, non-gating, reusable crash cushion.	

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: C-Crash Cushions

Material: QPL.45.018 Low Maintenance

89900959 - Valtir, LLC

Trade Name

Evaluation #

QuadGuard Elite M10 24-inch

19082

MASH TL-3. Redirective, non-gating. Can be used to shield fixed objects up to 24 inches wide.

QuadGuard Elite M10 Wide

20090

MASH TL-3. Redirective, non-gating crash cushion used to shield fixed objects up to 69 in. wide. Has transitions to concrete barrier, guardrail, etc.

89901033 - Work Area Protection Corp

Trade Name

Evaluation #

SCI-100 GM (Narrow)

03151

MASH TL-3
Non-gating, low maintenance system
Hazards narrower than 36"
Concrete pad required

SCI-100 GM (Wide)

03151

MASH TL-3
Non-gating, low maintenance system
Hazards wider than 36"
Concrete pad required

Product Category: 45 - MASH Approved Safety Hardware

Seciton: C-Crash Cushions

Material: QPL.45.019 Self-Restoring

89900959 - Valtir, LLC

Trade Name

Evaluation #

REACT M

21004

MASH TL-3. Redirective, non-gating, self-restoring crash cushion.

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: D-Category I Work Zone Devices

Material: QPL.45.009 Pedestrian Channelizers (< 100lbs.)

89900950 - Traffix Devices Inc

Trade Name

Evaluation #

ADA Urbanite Longitudinal Device

18028

MASH TL-3.

Product Category: 45 - MASH Approved Safety Hardware

Seciton: E-Category II Work Zone Devices

Material: QPL.45.025 Long. Channelizers for Traffic Control

89900678 - Pexco LLC

Trade Name

Evaluation #

FG 300 Interstate Grade Curb System

06073

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FG 300 Turnpike Grade Curb System

13015

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89901545 - Traffic Safety Service LLC

Trade Name

Evaluation #

TSS-590 Water Barrier

20076

MASH TL-3.

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: E-Category II Work Zone Devices

Material: QPL.45.025

Long. Channelizers for Traffic Control

89900959 - Valtir, LLC

Trade Name

Evaluation #

ArmorZone TL-2 Barrier

23053

Limited to use for zones with traffic < 45mph. Use in accordance with TDOT Work Zone Design Manual.

SiteGuide TL-3 Long. Channelizing Device

22082

Limited to use for zones with traffic < 45mph. Use in accordance with TDOT Work Zone Design Manual.

Yodock 2001M

21115

Limited to use for zones with traffic < 45mph. Use in accordance with TDOT Work Zone Design Manual.

Yodock 2001MB

21116

Limited to use for zones with traffic < 45mph. Use in accordance with TDOT Work Zone Design Manual.

Product Category: 45 - MASH Approved Safety Hardware

Seciton: E-Category II Work Zone Devices

Material: QPL.45.028

Other Lightweight TCDs

89901576 - Eastern Metal of Elmira, Inc.

Trade Name

Evaluation #

Apex Compact Sign Stand

22064

TL-3. Aluminum legs on steel sign stand base. For roll-up signs.

Apex Dual Recoil Max Sign Stand

23007

TL-3. Aluminum legs on steel sign stand base. For roll-up signs.

Apex Recoil Sign Stand

22063

TL-3. Aluminum legs on steel sign stand base. For roll-up signs.

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Plasticade SS100 Tripod	20078
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Plasticade SS105 Tripod	20079
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Plasticade SS300 Sign Stand	20080
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Plasticade SS300A Sign Stand	20081
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Plasticade SS310 Sign Stand	20082
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Plasticade SS310A Sign Stand	20083
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Plasticade SS340A Sign Stand	20084
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Plasticade SS410A Sign Stand	20085
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Plasticade SS420A Sign Stand	20086
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Plasticade SS520 Sign Stand	20087
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Plasticade SSRB800 Sign Stand	20077
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Safetycade Type 1 & 2 Barricade	23056
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Verticade Vertical Panel Barricade	23057
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Product Category: 45 - MASH Approved Safety Hardware

Seciton: F-Category III Work Zone Devices

Material: QPL.45.029

Portable Barriers: Concrete, free-standi

89900294 - Easi-Set Worldwide

Trade Name

Evaluation #

12" J-J Hooks Free Stdg 20' F Shape

19038

MASH TL-3. Easi-Set Worldwide certifies producers of this product. Chris-Hill Construction Company is an approved producer of this barrier. Ross Prestess is an approved producer of this barrier.

12" J-J Hooks Free Stdg 20' Jersey Shape

19038

MASH TL-3. Easi-Set Worldwide certifies producers of this product. Chris-Hill Construction Company is an approved producer of this barrier. Ross Prestess is an approved producer of this barrier.

J-J Hooks MASH Free Standing

17095

MASH TL-3. Easi-Set Worldwide certifies producers of this product. Chris-Hill Construction Company is an approved producer of this barrier. Ross Prestess is an approved producer of this barrier.

89900450 - Hill & Smith Inc

Trade Name

Evaluation #

ZoneBloc

19055

MASH TL-3 (REBLOC RB80S_12)

89901558 - Rockingham Precast

Trade Name

Evaluation #

F-Shape Precast Concrete Traffic Barrier

21033

TL-3. T-LOK 11A.

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: F-Category III Work Zone Devices

Material: QPL.45.030

Portable Barriers: Concrete, anchored

89901575 - Eagle Precast

Trade Name

12.5' F Shape K Wall

Evaluation #

21106

12'-6" sections, 22-1/2" width, 32" height, 8" top. Ends of barrier wall section must be anchored. Eagle Precast facilities at Kings Mountain, NC and Forsyth, GA are approved producers for this barrier.

89900294 - Easi-Set Worldwide

Trade Name

J-J Hooks MASH 20' Bolt/Pin Down Barrier

Evaluation #

13092

MASH TL-3. Jersey Shape or F-shape with 8-inch top and 22-1/2-inch base. F-shape with 9-inch top and 24-inch base. 10- and 15-foot sections with 2-bolt configuration. 20-foot sections with 3-bolt (or 4-pin) configuration. Easi-Set Worldwide certifies

producers of this product. Chris-Hill Construction Company is an approved producer of this barrier. Ross Prestess is an approved producer of this barrier.

Product Category: 45 - MASH Approved Safety Hardware

Seciton: F-Category III Work Zone Devices

Material: QPL.45.031

Portable Barriers: Steel, anchored

89900450 - Hill & Smith Inc

Trade Name

Zoneguard

Evaluation #

21015

MASH TL-3.

89901535 - Safe Barriers, LLC

Trade Name

Defender 100 LDS

Evaluation #

20029

MASH TL-3.

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: F-Category III Work Zone Devices

Material: QPL.45.031

Portable Barriers: Steel, anchored

89900959 - Valtir, LLC

<u>Trade Name</u>	<u>Evaluation #</u>
HighwayGuard Barrier Transition TL-3.	21078
HighwayGuard Low Deflection Barrier LDS TL-3 and TL-4.	21078
HighwayGuard Min. Deflection Barrier MDS TL-3.	22084
HighwayGuard Standard Barrier SDS TL-3.	21077

Product Category: 45 - MASH Approved Safety Hardware

Seciton: F-Category III Work Zone Devices

Material: QPL.45.032

Portable Barriers: Steel, free-standing

89901530 - Saferoads

<u>Trade Name</u>	<u>Evaluation #</u>
HV2 Safety Barrier MASH TL-3 and TL-4. Steel barrier with concrete ballast.	18100
HV2 Transition to Crash Cushion MASH TL-3 and TL-4. To be used with HV2 Safety Barrier.	18100

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: F-Category III Work Zone Devices

Material: QPL.45.034

Crash Cushions: Redirective

89900959 - Valtir, LLC

<u>Trade Name</u>	<u>Evaluation #</u>
QuadGuard Elite M10 24-inch MASH TL-3. Redirective, non-gating. Can be used to shield fixed objects up to 24 inches.	19082
QuadGuard Elite M10 Wide MASH TL-3. Redirective, non-gating, reusable crash cushion.	20090
QuadGuard Elite System (Narrow) MASH TL-3. Hazards narrower than 36". Concrete pad required.	12010
QuadGuard Elite System (Wide) MASH TL-3. Hazards wider than 36". Concrete pad required.	12011
QuadGuard M Wide MASH TL-3. Redirective, non-gating, reusable crash cushion.	20144
QuadGuard M10 MASH TL-3. Non-gating reusable system. Hazards narrower than 36". Concrete pad required.	12009
REACT M MASH TL-3. Redirective, non-gating, self-restoring crash cushion.	21004

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: F-Category III Work Zone Devices

Material: QPL.45.034

Crash Cushions: Redirective

89901033 - Work Area Protection Corp

Trade Name

Evaluation #

SCI-100 GM (Narrow)

03151

MASH TL-3
Non-gating, low maintenance system
Hazards narrower than 36"
Concrete pad required

SCI-100 GM (Wide)

03151

MASH TL-3
Non-gating, low maintenance system
Hazards wider than 36"
Concrete pad required

Product Category: 45 - MASH Approved Safety Hardware

Seciton: G-Category IV Work Zone/Traffic Control

Material: QPL.45.035

Attenuators: Truck-mounted

89900959 - Valtir, LLC

Trade Name

Evaluation #

SS180M Truck-Mounted Attenuator

20003

MASH TL-3.

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Product Category: 45 - MASH Approved Safety Hardware

Seciton: G-Category IV Work Zone/Traffic Control

Material: QPL.45.036

Attenuators: Trailer-mounted

89901059 - Gregory Industries Inc

Trade Name

Evaluation #

TTMA-200 Trailer Mounted Attenuator

19027

MASH TL-3. Roll-ahead distance 35 feet for non-blocked wheels.

89900950 - Traffix Devices Inc

Trade Name

Evaluation #

Scorpion II Truck-Mounted Attenuator

18027

MASH TL-3.

89900959 - Valtir, LLC

Trade Name

Evaluation #

SMT

20004

MASH TL-3.

VORTEQ M Trailer-Mounted Attenuator

23016

MASH TL-3.

Number of Approved Materials in Report:

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