

**California Department of Transportation**  
 Authorized Materials List  
 for  
 Highway Safety Features

2/13/2025

**MASH Implementation Website:** <https://dot.ca.gov/programs/safety-programs/MASH>  
 Caltrans approved vendor drawings, links to vendor websites, and Caltrans product approval memos can be found on the link above.

**Permanent Crash Cushions**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
Big Sandy Inertial Crash Cushion System (ICS), TL-3	TrafFix Devices, Inc.	MASH	10/2025
Delta Crash Cushion, TL-3	TrafFix Devices, Inc.	MASH	7/2025
Energite III Modified Sand Barrel Array, TL-3	Valtir, LLC	MASH	4/2026
QuadGuard Elite M10, TL-3	Valtir, LLC	MASH	12/2025
QuadGuard Elite M10 Wide, TL-3	Valtir, LLC	MASH	12/2025
QuadGuard M Wide, TL-3	Valtir, LLC	MASH	12/2025
QuadGuard M10, TL-3	Valtir, LLC	MASH	12/2025
QuadGuard M10 24-In Wide, TL-2	Valtir, LLC	MASH	12/2025
REACT M, TL-3	Valtir, LLC	MASH	2/2027
SCI70GM, TL-2	Hill & Smith, Inc.	MASH	10/2025
SCI100GM, TL-3	Hill & Smith, Inc.	MASH	2/2026
SMART Crash Cushion Variable Width Transition, TL-3	Hill & Smith, Inc.	MASH	2/2026
SmartPod Crash Cushion, TL-3	Hill & Smith, Inc.	MASH	10/2026
TAU-XR Crash Cushion, TL-3	Barrier Systems by Lindsay	MASH	10/2026

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**Permanent Crash Cushions (continued)**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
Universal TAU-M Parallel Crash Cushion, TL-2 (4 element)	Barrier Systems by Lindsay	MASH	6/2026
Universal TAU-M Parallel Crash Cushion, TL-3 (7 element)	Barrier Systems by Lindsay	MASH	6/2026

**Temporary Crash Cushions**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
ABSORB-M Crash Cushion System, TL-2 (2 element)	Lindsay Transportation Solutions	MASH	2/2026
ABSORB-M Crash Cushion System, TL-3 (3 element)	Lindsay Transportation Solutions	MASH	2/2026
ABSORB 350, TL-3 <b>use with QMB-CRTS only</b>	Lindsay Transportation Solutions	350	12/2026
Big Sandy Inertial Crash Cushion System (ICS), TL-3	TraFFix Devices, Inc.	MASH	10/2025
CrashGard Sand Barrel (CC-48), TL-3	Plastic Safety Systems, Inc.	350	12/2026
Energite III Modified Sand Barrel Array, TL-3	Valtir, LLC	MASH	4/2026
REACT M, TL-3	Valtir, LLC	MASH	2/2027
Sentry Longitudinal Energy Dissipater (SLED), TL-3	TraFFix Devices, Inc.	MASH	11/2025
SmartPod Crash Cushion, TL-3	Hill & Smith, Inc.	MASH	10/2026

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**Temporary Crash Cushions (continued)**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
TAU-XR Crash Cushion	Barrier Systems by Lindsay	MASH	10/2026

**Flared Terminals**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
MASH Flared Terminal (MFLEAT), TL-3	Road Systems, Inc. (RSI)	MASH	6/2025

**Inline Terminals**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
Sequential Kinking Terminal-Standard Post-Midwest Guardrail system (MSKT-SP-MGS), TL-2	Road Systems, Inc. (RSI)	MASH	8/2026
Sequential Kinking Terminal-Standard Post-Midwest Guardrail system (MSKT-SP-MGS), TL-3	Road Systems, Inc. (RSI)	MASH	8/2026
MAX-Tension Tangent Guardrail Terminal, TL-2	Barrier Systems by Lindsay	MASH	6/2026
MAX-Tension Tangent Guardrail Terminal, TL-3	Barrier Systems by Lindsay	MASH	6/2026
SoftStop System Tangent End Terminal, 8-in block, TL-2, TL-3	Valtir, LLC	MASH	10/2025
SoftStop System Tangent End Terminal, 12-in block, TL-2, TL-3	Valtir, LLC	MASH	10/2025
SPIG Gating End Terminal (SGET), TL-3	SPIG Industry, LLC	MASH	1/2027

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Median Terminals

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
MAX-Tension Median Terminal, TL-3	Barrier Systems by Lindsay	MASH	9/2026
Median Attenuating Trend Terminal (MATT), TL-3	Valtir, LLC	MASH	6/2025

**Permanent Barriers**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
ArmorGuard Barrier, TL-3	Barrier Systems by Lindsay	350	12/2026
BarrierGate (BG 1.5), TL-3	Valtir, LLC	350	12/2026
Brifen Wire Rope Safety Fence (WRSF), O-post, TL-3	Brifen USA, Inc.	MASH	11/2025
QuickChange Moveable Barrier Concrete Reactive Tension system (QMB-CRTS), TL-3	Lindsay Transportation Solutions	MASH	2/2026

**Temporary Barriers**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
Defender Barrier System 100 High Containment (100HC), TL-4	Safe Barriers, LLC	MASH	4/2026
Defender Barrier System 100 Low Deflection System (100LDS), TL-3	Safe Barriers, LLC	MASH	4/2026
J-J Hooks, Freestanding, Staked-down, Bolted-down Precast Concrete Barriers, TL-3	Easi-Set Worldwide	MASH	6/2026
HighwayGuard LDS TL-3	Valtir, LLC	MASH	7/2026
HighwayGuard MDS TL-3	Valtir, LLC	MASH	7/2026

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**Temporary Barriers (continued)**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
HighwayGuard SDS TL-3	Valtir, LLC	MASH	7/2026
HV2 Steel Safety Barrier, TL-3, TL-4	Saferoads	MASH	8/2024
QuickChange Moveable Barrier Concrete Reactive Tension system (QMB-CRTS), TL-3	Lindsay Transportation Solutions	MASH	2/2026
Zoneguard, Standard and Minimum Deflection Systems TL-3	Hill & Smith, Inc	MASH	2/2026

**Truck and Trailer Mounted Attenuators**

<b>Product Name*</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
ALPHA DXM TMA, TL-2 16,100 - 26,500 lbs	Valtir, LLC	MASH	5/2026
BLADE-TMA, TL-3 16,100 - 21,000 lbs	Verdegro, USA LLC	MASH	2/2026
MPS-350 Truck Mounted Attenuator (TMA), TL-3 16,100 - 21,000 lbs	Valtir, LLC	350	12/2026
Safe-Stop Trailer (SST), TL-3 16,100 - 54,000 lbs	Valtir, LLC	350	12/2026
Scorpion 10,000 A, TL-2 16,100 - 26,400 lbs	TraFFix Devices, Inc.	350	12/2026
Scorpion 10,000 C, TL-3 16,100 - 54,000 lbs	TraFFix Devices, Inc.	350	12/2026
Scorpion II Metro Truck Mounted Attenuator, TL-2 16,100 lbs - no maximum	TraFFix Devices, Inc.	MASH	4/2026

\*Allowable support truck weight

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**Truck and Trailer Mounted Attenuators (continued)**

<b>Product Name*</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
Scorpion II Trailer Attenuator (TA), TL-3 16,100 lbs - no maximum	TrafFix Devices, Inc.	MASH	10/2026
Scorpion II Truck Mounted Attenuator, TL-3 16,100 lbs - no maximum	TrafFix Devices, Inc.	MASH	10/2026
Scorpion Trailer, TL-3 TL-3, 16,100 - 54,000 lbs	TrafFix Devices, Inc.	350	12/2026
SMT, TL-3 16,100 - 25,000 lbs	Valtir, LLC	MASH	11/2025
SS180 M, TL-3 16,100 - 25,000 lbs	Valtir, LLC	MASH	11/2025
SS90 HD, TL-3 16,100 - 21,000 lbs	Valtir, LLC	350	12/2026
TTMA-100 Trailer Mounted Attenuator, TL-3 16,100 - 54,000 lbs	Gregory Industries, Inc.	350	12/2026
TTMA-200 Trailer Mounted Attenuator, TL-3 16,100 - no maximum	Gregory Industries, Inc.	MASH	7/2025
VORTEQ M TTMA, TL-3 16,100 - no maximum	Valtir, LLC	MASH	5/2026

\*Allowable support truck weight

**Miscellaneous**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
King MASH16 Composite Block, 8-in, TL-3	Valtir, LLC	MASH	4/2028

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**Miscellaneous (continued)**

<b>Product Name</b>	<b>Manufacturer</b>	<b>350/MASH</b>	<b>Re-Authorization</b>
King MASH16 Composite Block, 12-in, TL-3	Valtir, LLC	MASH	4/2028
Mondo Block Model GB14SH1, 8-in block, TL-3	Mondo Polymer Technologies	MASH	07/2028
Mondo Block Model MGS14SH, 12-in block, TL-3	Mondo Polymer Technologies	MASH	04/2025
Mondo Recycled Polymer Offset Block Model TB21SH, TL-3	Mondo Polymer Technologies	350	12/2026
Redi-Torque Slip Base System, Model 280 Breakaway, TL-3	Xcessories Squared Development & Mfg., Inc.	350	12/2026
Type B call box, TL-3	N/A	350	12/2026
Type F call box, TL-3	N/A	350	12/2026
V-Loc sign and Mailbox Anchoring System, Breakaway	Traffic & Parking Control Co., Inc.	350	12/2026

Standard details and User Guides for approved Caltrans non-proprietary bridge rails are in the Caltrans Standard Plans, the Caltrans/DES webpage for Standard Plan User Guides, and on the Bridge Standard Details (XS Sheets) webpage. To access them see the weblinks below.

**OCCS Standards:** <https://dot.ca.gov/programs/design/october-2022-ccs-standard-plans-and-standard-specifications>

**Standard Plans User Guides:** <https://dot.ca.gov/programs/engineering-services/manuals/standard-plans-user-guides>

**Bridge Standard Details:** <https://dot.ca.gov/programs/engineering-services/manuals/bridge-standard-details>