California Department of Transportation
Authorized Materials List
for
Highway Safety Features

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

Product Name	Manufacturer	350/MASH	Re-Authorization
Big Sandy Inertial Crash Cushion System (ICS), TL-3	TrafFix Devices, Inc.	MASH	10/2025
Delta Crash Cushion, TL-3	TrafFix Devices, Inc.	MASH	07/2025
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
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
Universal TAU-M Parallel Crash Cushion, TL-2 (4 element)	Barrier Systems by Lindsay	MASH	5/2024
Universal TAU-M Parallel Crash Cushion, TL-3 (7 element)	Barrier Systems by Lindsay	MASH	5/2024

Temporary Crash Cushions

Product Name	Manufacturer	350/MASH	Re-Authorization
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 **use with QMB-CRTS only**	Lindsay Transportation Solutions	350	2/2024
Big Sandy Inertial Crash Cushion System (ICS), TL-3	TrafFix Devices, Inc.	MASH	10/2023
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
Sentry Longitudinal Energy Dissipater (SLED), TL-3	TrafFix Devices, Inc.	MASH	11/2025

Flared Terminals

Product Name	Manufacturer	350/MASH	Re-Authorization
MASH Flared Terminal (MFLEAT), TL-3	Road Systems, Inc. (RSI)	MASH	06/2025

Inline Terminals

Product Name	Manufacturer	350/MASH	Re-Authorization
Sequential Kinking Terminal-Standard Post-Midwest Guardrail system (MSKT-SP-MGS), TL-3	Road Systems, Inc. (RSI)	MASH	10/2023

Inline Terminals (continued)

Product Name	Manufacturer	350/MASH	Re-Authorization
MAX-Tension Tangent Guardrail Terminal, TL-2	Barrier Systems by Lindsay	MASH	04/2024
MAX-Tension Tangent Guardrail Terminal, TL-3	Barrier Systems by Lindsay	MASH	04/2024
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	09/2024

Median Terminals

Product Name	Manufacturer	350/MASH	Re-Authorization
MAX-Tension Median Terminal, TL-3	Barrier Systems by Lindsay	MASH	1/2024
Median Attenuating Trend Terminal (MATT), TL-3	Valtir, LLC	MASH	6/2025

Permanent Barriers

Product Name	Manufacturer	350/MASH	Re-Authorization
ArmorGuard Barrier, TL-3	Barrier Systems by Lindsay	350	12/2026
BarrierGate (BG 1.5), TL-3	Valtir, LLC	350	12/2026

Permanent Barriers (continued)

Product Name	Manufacturer	350/MASH	Re-Authorization
Brifen Wire Rope Safety Fence (WRSF), O-post, TL-3	Brifen USA, Inc.	MASH	11/2025
Bullnose Median Barrier, TL-3	Nonproprietary, Licensed by MwRSF	350	12/2026
QuickChange Moveable Barrier Concrete Reactive Tension system (QMB-CRTS), TL-3	Lindsay Transportation Solutions	MASH	2/2026

Temporary Barriers

Product Name	Manufacturer	350/MASH	Re-Authorization
Cross Bolt, TL-3	Nonproprietary, Licensed by TTI	MASH	9/2025
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	10/2023
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

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Temporary Barriers (continued)

Product Name	Manufacturer	350/MASH	Re-Authorization
ZoneGuard, Standard and Minimum Deflection Systems, TL-3	Hill & Smith, Inc.	MASH	2/2026

Truck and Trailer Mounted Attenuators

Product Name*	Manufacturer	350/MASH	Re-Authorization
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 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
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

*Allowable support truck weight

Truck and Trailer Mounted Attenuators (continued)

Product Name*	Manufacturer	350/MASH	Re-Authorization
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	Trinity Highway Products, LLC/Valtir, LLC	MASH	11/2025
SS180 M, TL-3 16,100 - 25,000 lbs	Trinity Highway Products, LLC/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

Product Name	Manufacturer	350/MASH	Re-Authorization
King MASH16 Composite Block, 8-in, TL-3	Valtir, LLC	MASH	04/2028
King MASH16 Composite Block, 12-in, TL-3	Valtir, LLC	MASH	04/2028

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Miscellaneous (continued)

Product Name	Manufacturer	350/MASH	Re-Authorization
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