

**Office of Roadway Engineering
Cones and Drums**

Last Updated: 6/24/2021

MASH-16

28", 36" and 42" CONES

Manufacturer	Model Number	Model Description	Approved Date	Remarks
Hill & Smith Inc. 987 Buckeye Park Rd. Columbus, OH 43207 Phone: (614)340-6294 Fax: (614)340-6296 www.hillandsmith.com	28PVCS6CC4CC-BB 28PVCH6CC4CC-BB	PVC; 7# or 10#; Wide body; With reflective collars.	12/5/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
	28PVCTLS6CC4CC-BB	PVC; 10#; Trimline; With reflective collars.	12/5/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
	36PVCS6CC4CC-BB 36PVCH6CC4CC-BB	PVC; 10# or 12#; With reflective collars.	12/5/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
	28" Cone (28-PVCS, 28-PVCH)	PVC; 7# or 10#; Wide body; With reflective collars.	12/30/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
	28" Trimline Cone (28-PVCTLS, 28-PVCTLH)	PVC; 7# or 10#; Trimline; With reflective collars.	12/30/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
	36" Cone (36-PVCS, 36-PVCH)	PVC; 10# or 12#; With reflective collars.	12/30/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
	42" Channelizer Cone (C-42)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base. Loop-style handle.	12/30/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
	JBC Safety Plastics Inc. 16750 Chestnut St. City of Industry, CA 91748 Phone: 866-742-5522 Fax: 855-522-6688 www.jbc-safetyplastic.com	28" Cone (Revolution Series) RS70032CT3M64 RS70032SR3M64 RS70045CT3M64 RS70045SR3M64	Wide body or Slimline; 7# or 10# total weight; With reflective collars.	3/24/2020
Traffix Devices, Inc. 160 Avenida La Pata San Clemente, CA 92673 Phone: 630-605-1273 Fax: 949-573-9240 www.traffixdevices.com	42" Grabber-Cone (42000 Series)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base; Grab-style handle.	1/23/2020	Self-Certified as MASH 2016 Compliant Device without attachments.
	42" Traffix Looper-Cone (46000 Series)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base Loop-style handle.	1/23/2020	Self-Certified as MASH 2016 Compliant Device without attachments.

UAT LLC 4010 Earls Court Alpharetta, GA 30004 Phone: 678-982-8005 www.uatsupply.com	UAT Next Generation 28" Cones listed: NG3M28-07; NG3M28-10	PVC; 7# or 10# total weight; Wide body; With reflective collars.	12/20/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
(Manufactured by Taroko International)	UAT Next Generation 28" Cones listed: NGSL3M28-07; NGSL3M28-10	PVC; 7# or 10# total weight; Slim body; With reflective collars.	1/17/2020	Self-Certified as MASH 2016 Compliant Device without attachments.
	UAT Next Generation 42" Channelizing Cone (NGCH6HI)	Low Density Polyethylene, with reflective strips; With 16# or 30# rubber base. (Gorilla Grip style handle).	12/5/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
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Manufacturer	Model Number	Model Description	Approved Date	Remarks
Hill & Smith Inc. 987 Buckeye Park Rd. Columbus, OH 43207 Phone: (614)340-6294 Fax: (614)340-6296 www.hillandsmith.com	B500LC - Lane Changer	With reflective strips; With 22# tire ring base.	12/30/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
(Formerly manufactured by Work Area Protection Corporation)	B400 Channelizer Drum	With reflective strips; With plastic base or 25#, 35# or 40# rubber base.	12/30/2019	Self-Certified as MASH 2016 Compliant Device without attachments.
Plasticade 7700 N. Austin Avenue Skokie, IL 60077 Phone: 800-772-0355 Fax: 847-966-8074 www.plasticade.com	Commander Traffic Drum (Series 456)	High or Low Density Polyethylene; With retroreflective strips; without attachments; With tire ring base.	1/13/2020	Self-Certified as MASH 2016 Compliant Device without attachments.
TraFFix Devices, Inc. 160 Avenida La Pata San Clemente, CA 92673 Phone: 630-605-1273 Fax: 949-573-9240 www.traffixdevices.com	TraFFix Channelizer Drum (18000 Series)	High or Low Density Polyethylene; With retroreflective strips; Without Type A or C warning light; With tire ring rubber base.	1/23/2020	Self-Certified as MASH 2016 Compliant Device without attachments.

NCHRP 350 (NCHRP Report 350 Category 1)

28", 36" and 42" CONES

Manufacturer	Model Number	Model Description	Approved Date	Remarks
Bent Manufacturing Company 15442 Chemical Lane Huntington Beach, CA 92649 Phone: 714-842-0600 Fax: 714-842-2959 www.bentmfg.com	42" SC42-2-40/4W T-Top Stackable Cone	Low Density Polyethylene; With reflective strips (2 of each color, 4" wide); With 11#, 15# or 30# rubber base. Grab-style handle (T-Shaped).	4/10/2009	Approved NCHRP Report 350: WZ-06 (11/23/1998)
	42" SC42-2-60/6W T-Top Stackable Cone	Low Density Polyethylene; With reflective strips (2 of each color; 6" wide); With 11#, 15# or 30# rubber base. Grab-style handle (T-Shaped).	4/10/2009	Approved NCHRP Report 350: WZ-06 (11/23/1998)
Cortina Safety Products 10706 West Grand Ave. Franklin Park, IL 60131 Phone: 847-455-2800 Fax: 847-451-7247 www.cortinaco.com (Formerly manufactured by Kimberly Clark Work Zone Products)	28" Cone	Wide body or Trimline; 10# total weight; With reflective collars.	1/1/2005	Self-Certified as a NCHRP Report 350 Category 1 Device. See also WZ-03.
	42" Grip N Go Cone (750 Series)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber bases. Loop-style handle.	1/14/2011	Self-Certified as NCHRP Report 350 Category 1 Device. See also WZ-03.
JBC Safety Plastics Inc. 16750 Chestnut St. City of Industry, CA 91748 Phone: 866-742-5522 Fax: 855-522-6688 www.jbcsafetyplastic.com	28" Cone (Revolution Series)	Wide body or Trimline; 7# or 10# total weight; With reflective collars.	1/12/2016 (10#) 3/10/16 (7#)	Self-Certified as NCHRP Report 350 Category 1 Device.
Lakeside Plastics, Inc. 450 W. 33rd Ave. Oshkosh, WI 54902 Phone: 920-235-3620 Fax: 920-235-6545 www.lakesideplastics.net	28" Tri-Glo Series Cone	Wide body or Trimline; 10# total weight; With reflective collars.	2/4/2011	Self-Certified as NCHRP Report 350 Category 1 Device.
	42" Divertor Series Cone	Low Density; Polyethylene channelizer cone; With reflective strips; With 16# or 30# ballasts. Loop-style handle.	2/4/2011	Self-Certified as NCHRP Report 350 Category 1 Device.
Plastic Safety Systems, Inc. 2444 Baldwin Rd. Cleveland OH 44104 Phone: 800-662-6338 Fax: 216-231-2702 www.plasticsafety.com	42" Navigator Cone (N4246HO)	With 16# or 30# rubber base; With reflective strips; Accepts Type A or C warning light; With or without vertical panels (size 12x36, 12x24, 8x36, 8x24). Loop-style handle.	1/1/2005	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-102 (4/12/2002) See also WZ-03.

Plasticade 7700 N. Austin Avenue Skokie, IL 60077 Phone: 800-772-0355 Fax: 847-966-8074 www.plasticade.com	28" Cone	PVC; 7# or 10# total weight; With reflective collars.	3/10/16	Self-Certified as NCHRP Report 350 Category 1 Device.
	36" Cone	PVC; 10# or 12# total weight; With reflective collars.	3/10/16	Self-Certified as NCHRP Report 350 Category 1 Device.
	42" Navicade Channelizing Cone	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base; With or without Type A or C warning light (with 30# base). Loop-style handle.	1/12/2016	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-301 (3/11/2011)
Protection Services Inc. 1011 Mumma Rd., Suite 101 Lemoyne, PA 17043 Phone: 866-489-1234 or 717-236-9307 Fax: 717-236-1281 http://www.protectionservices.com/	42" Channelizer Cone (PC-9150) * (As of 2/1/16 no longer being manufactured.)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base. Loop-style handle.	1/1/2005	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-322 (4/3/2014)
SAS Safety Corporation 3031 Gardenia Ave. Long Beach, CA 90807 Phone: 800-262-0200 Fax: 800-244-1938 www.sassafety.com	28" Safety Cone (7501-28B)	PVC; 7# total weight; With reflective collars.	3/10/16	Self-Certified as NCHRP Report 350 Category 1 Device.
	36" Safety Cone (7501-36B)	PVC; 10# total weight; With reflective collars.	3/10/16	Self-Certified as NCHRP Report 350 Category 1 Device.
Three D Traffic Works 430 N. Varney St. Burbank, CA 91502 Phone: 877-843-9757 or (818) 841-2182 Fax: 818-841-5096 http://www.trafficwks.com/	42" T-Grip Channelizer Cone (TD 7000)	High or Low Density Polyethylene; With reflective strips; With 10#, 15#, 20# or 30# base.	12/5/19	Self-Certified as NCHRP Report 350 Category 1 Device.
	42" Ringtop Slim-Line Channelizer Cone (TD 7500)	Low Density Polyethylene; With reflective strips; With 10#, 15#, 20# or 30# base; With or without a Type A or C warning light. Loop-style handle.	1/1/2005	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-271 (5/14/2008)
Traffix Devices, Inc. 160 Avenida La Pata San Clemente, CA 92673 Phone: 630-605-1273 Fax: 949-573-9240 www.traffixdevices.com	42" Grabber-Cone (42000 Series)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base; Accepts Type A or C warning light (with 30# base). Grab-style handle.	1/1/2005	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-24 (12/28/1999)
	42" Traffix Looper-Cone (46000 Series)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base; Accepts Type A or C warning light (with 30# base). Loop-style handle.	12/22/15	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-24 (12/28/1999) and WZ-189 (2/8/2005)

UAT LLC 4010 Earls Court Alpharetta, GA 30004 Phone: 678-982-8005 www.uatsupply.com (Manufactured by Taroko International)	UAT Series 28" Cones listed: CWOR28-07; CW3M28-07; CWOR28-10; CW3M28-10 (As of 2021 no longer being manufactured.)	PVC; 7# or 10# total weight; Wide body; With reflective collars.	9/5/17	Self-Certified as NCHRP Report 350 Category 1 Device.
Hill & Smith Inc. 987 Buckeye Park Rd. Columbus, OH 43207 Phone: (614)340-6294 Fax: (614)340-6296 www.hillandsmith.com (Formerly manufactured by Work Area Protection Corporation)	28" Cone (28-PVCS, 28-PVCH)	PVC; 7# or 10#; Wide body; With reflective collars.	3/10/16	Self-Certified as NCHRP Report 350 Category 1 Device.
	28" Triline Cone (28-PVCTLS, 28-PVCTLH)	PVC; 7# or 10#; Triline; With reflective collars.	1/1/2005 (28-PVCTLH) 3/10/16 (28-PVCTLS)	Self-Certified as NCHRP Report 350 Category 1 Device.
	36" Cone (36-PVCS, 36-PVCH)	PVC; 10# or 12#; With reflective collars.	3/10/16	Self-Certified as NCHRP 350 Category 1 Device.
	42" Channelizer Cone (C-42)	Low Density Polyethylene; With reflective strips; With 16# or 30# rubber base. Loop-style handle.	1/1/2005	Self-Certified as NCHRP Report 350 Category 1 Device.

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Manufacturer	Model Number	Model Description	Approved Date	Remarks
Bent Manufacturing Company 15442 Chemical Lane Huntington Beach, CA 92649 Phone: 714-842-0600 Fax: 714-842-2959 www.bentmfg.com	SD-44H-0-HD Superdome Drum	High Density Polyethylene; With 4" reflective strips; With or without Type A or C warning lights; With 4# sand filled snap on base or 25#, 28#, 30# or 40# rubber snap on or drop over (tire ring) bases.	4/10/2009	Approved NCHRP Report 350: WZ-06 (11/23/1998)
	SD-46H-0-LD Superdome Drum	Low Density Polyethylene; With 6" reflective strips; With or without Type A or C warning lights; With 4# sand filled snap on base or 25#, 28#, 30# or 40# rubber snap on or drop over (tire ring) bases.	4/10/2009	Approved NCHRP Report 350: WZ-06 (11/23/1998)
Cortina Safety Products 10706 West Grand Ave. Franklin Park, IL 60131 Phone: 847-455-2800 Fax: 847-451-7247 www.cortinaco.com (Formerly manufactured by Kimberly Clark Work Zone Products)	780/782 Series	High or Low Density; With reflective strips; 25# to 40# rubber base or 21.5 to 23.5 lb tire ring base; With or without a Type A or C warning light.	1/14/2011	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-54 (9/15/2000)

Lakeside Plastics, Inc. 450 W. 33rd Ave. Oshkosh, WI 54902 Phone: 920-235-3620 Fax: 920-235-6545 www.lakesideplastics.net	Director Series (FTS-5)	High or Low Density; With reflective strips; With rubber ballast/base; With or without a Type A or C warning light.	2/4/2011	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-54 (9/15/2000)
Plastic Safety Systems, Inc. 2444 Baldwin Rd. Cleveland OH 44104 Phone: 800-662-6338 Fax: 216-231-2702 www.plasticsafety.com	LifeGard I Series* (As of 12/31/15 no longer being manufactured.)	High or Low Density Polyethylene (with UV inhibitors); MUTCD-compliant plastic drum; Accepts Type A or C warning light; Accommodates up to 5 bands of reflective sheeting, either 4" or 6" wide; Ballast with patented rubber tire collar.	3/10/2011	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-54 (9/15/2000) See also WZ-03.
	LifeGard II Series	High or Low Density Polyethylene (with UV inhibitors); MUTCD-compliant plastic drum; Accepts Type A or C warning light; Accommodates up to 5 bands of reflective sheeting, either 4" or 6" wide; Ballast with patented rubber tire collar, or internal rubber base. Base available in 25# or 40# weights.	3/10/2011	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-54 (9/15/2000) See also WZ-03.
Plasticade 7700 N. Austin Avenue Skokie, IL 60077 Phone: 800-772-0355 Fax: 847-966-8074 www.plasticade.com	Econocade II* (As of 2017 no longer being manufactured.)	High or Low Density Polyethylene; With retroreflective strips; With or without Type A or C warning light; With tire ring or rubber base.	9/16/2013	Self-Certified as NCHRP Report 350 Category I & II Device. Approved NCHRP Report 350: WZ-54 (9/15/2000) & WZ-54A (12/23/2011)
	Rhino Channelizer Barrel* (As of spring 2018 no longer being manufactured.)	High or Low Density Polyethylene; With retroreflective strips; With or without Type A or C warning light; With tire ring rubber base or sand filled base.	12/23/2015	Self-Certified as NCHRP Report 350 Category I & II Device. Approved NCHRP Report 350: WZ-54 (9/15/2000) & WZ-54A (12/23/2011)
	Commander Traffic Drum (Series 456)	High or Low Density Polyethylene; With retroreflective strips; With or without Type A or C warning light; With tire ring base.	4/26/2017	Self-Certified as NCHRP Report 350 Category I & II Device. Approved NCHRP Report 350: WZ-54 (9/15/2000) & WZ-54A (12/23/2011)
TraFFix Devices, Inc. 160 Avenida La Pata San Clemente, CA 92673 Phone: 630-605-1273 Fax: 949-573-9240 www.traffixdevices.com	TraFFix Channelizer Drum (18000 Series)	High or Low Density Polyethylene; With retroreflective strips; With or without Type A or C warning light; With tire ring rubber base.	12/23/2015	Self-Certified as NCHRP Report 350 Category I Device. Approved NCHRP Report 350: WZ-24 (12/28/1999)

Hill & Smith Inc. 987 Buckeye Park Rd. Columbus, OH 43207 Phone: (614)340-6294 Fax: (614)340-6296 www.hillandsmith.com (Formerly manufactured by Work Area Protection Corporation)	B500LC - Lane Changer	With reflective strips; With or without Type A or C warning light; With plastic base or 25#, 35# or 40# rubber base or tire ring base.	10/26/2010	Self-Certified as NCHRP Report 350 Category I & II Device. Approved NCHRP Report 350: WZ-54 (9/15/2000)
	B400 Channelizer Drum	With reflective strips; With or without Type A or C warning light; With plastic base or 25#, 35# or 40# rubber base.	1/1/2005	Self-Certified as NCHRP Report 350 Category 1 Device. Approved NCHRP Report 350: WZ-26 (12/29/1999) & WZ-54 (9/15/2000)

*No longer being manufactured.

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