

TRAFFIC TECH TALK TOPICS SEPTEMBER 27, 2023

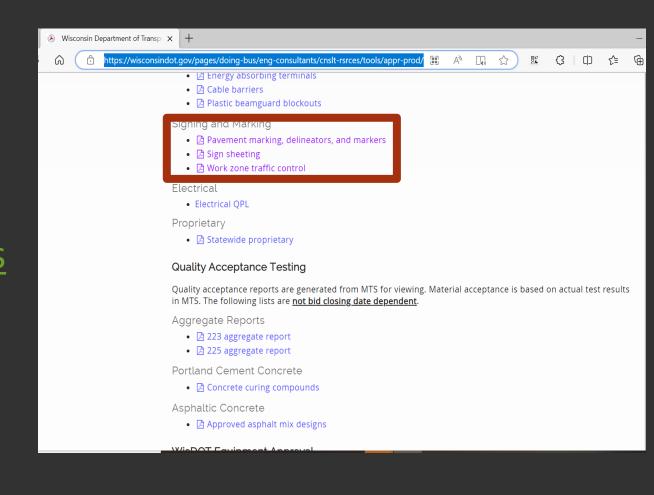
- Introduction
- Navigating the Approved Products Lists
- Approved Products List Application Process
- Evaluation & Audit Solutions (formerly NTPEP) & WisDOT Involvement

INTRODUCTION

- Linette Rizos
 - Signing, Marking & Work Zone Materials
 Engineer
 - Evaluation & Audit Solutions (formerly NTPEP)
 Pavement Marking Materials Chair
 - Materials Inquiries:
 DOTSignMarkWZMaterials@dot.wi.gov

NAVIGATING THE APPROVED PRODUCTS LISTS (APL)

- Three APLs under the Traffic Design Unit:
 - Signing Materials
 - Marking Materials
 - Work Zone Materials & Devices



NAVIGATING THE APPROVED PRODUCTS LISTS (APL) SIGNING MATERIALS CATEGORIES

- Type H (Partial Cubed Prismatic Sheeting)
- Type F (Fluorescent Yellow Green and Fluorescent Yellow)
- Type SH (Full Cubed Prismatic Sheeting)

- Work Zone Sheeting
 - Reboundable Sheeting
 - Type XI (Sheeting for Barricades)
 - ASTM D4956 Type VI (Roll-Up Sheeting)

NAVIGATING THE APPROVED PRODUCTS LISTS (APL) SIGNING MATERIALS CATEGORIES



Approved Sign Sheeting Products

Date Last Edited: AUGUST 2023



Products Currently Permitted on the Approved Products List:

Type H (Partial Cubed Prismatic Sheeting)

Type F (Fluorescent Yellow Green and Fluorescent Yellow)

Type SH (Full Cubed Prismatic Sheeting)

Work Zone Sheeting

Reboundable Sheeting Type XI (Sheeting for Barricades) ASTM D4956 Type VI (Roll-Up Sheeting)

Procedure for New Sign Sheeting Material Acceptance:

- Vendor, supplier or manufacturer submits request to have product reviewed and considered for addition to the WisDOT Approved Sign Sheeting Products List.
- 2. The vendor, supplier or manufacturer submits Quality Control Plan (including warranties), Data Sheets (MSDS, Product Data Bulletins, etc.), Installation Specifications, Two (2) 12"x12" samples of each color, 3 Year NTPEP Test Data from Minnesota Test Deck and Accelerated Indoor weather Testing from an Independant Lab (if NTPEP Data is unavailable).
- Evaluate product information to ensure compliance with the appropriate Standard Specification and the daytime luminance values contained in ASTM 04956 and 655 CFR Subpart F.
- 4. WisDOT BTO sends response letter to vendor, supplier or manufactuer.
- 5. Update the WisDOT Approved Sign Sheeting Products List accordingly.

Contact:

Linette Rizos

Signing, Marking& Work Zone Materials Engineer Bureau of Traffic Operations DOTSignMarkWZMaterials@dot.wi.gov

Type H (Partial Cubed Prismatic Sheeting)

Manufacturer	Product	Approval Date
	3M HIP Type IV 3930 - White	2/19/2014
	3M HIP Type IV 3931 - Yellow	2/19/2014
	3M HIP Type IV 3932 - Red	2/19/2014
3M	3M HIP Type IV 3934 - Orange	2/19/2014
	3M HIP Type IV 3935 - Blue	2/19/2014
	3M HIP Type IV 3937 - Green	2/19/2014
	3M HIP Type IV 3939 - Brown	4/1/2012
	Oralite HIP Type IV 5900-010 White	12/10/2012
	Oralite HIP Type IV 5900-020 Yellow	12/10/2012
ORAFOL	Oralite HIP Type IV 5900-030 Red	12/10/2012
OKAFOL	Oralite HIP Type IV 5900-050 Blue	12/10/2012
	Oralite HIP Type IV 5900-060 Green	12/10/2012
	Oralite HIP Type IV 5900-080 Brown	12/10/2012
	Avery Dennison HIP T-6500 White	2/19/2014
	Avery Dennison HIP T-6501 Yellow	9/17/2009
	Avery Dennison HIP T-6504 Orange	9/17/2009
Avery Dennison	Avery Dennison HIP T-6505 Blue	9/17/2009
	Avery Dennison HIP T-6507 Green	9/17/2009
	Avery Dennison HIP T-6508 Red	9/17/2009
	Avery Dennison HIP T-6509 Brown	9/18/2009

Type F (Fluorescent Yellow Green, Fluorescent Yellow and Fluorescent Orange)

Sheeting for Rigid Signs, Delineators, and Markers (ASTM D4956 Type XI)		
Manufacturer	Product	Approval Date
	Avery Dennison Omni-Cube T-11511 Fl. Yellow	11/28/2011
Avery Dennison	Avery Dennison Omni-Cube T-11513 Fl. Yellow - Green	11/28/2011
	Avery Dennison Omni-Cube W-11514 Fl. Orange	11/28/2011
	3M DG3 Type XI 4081 - Fl. Yellow	2/19/2014
3M	3M DG3 Type XI 4083 - Fl. Yellow - Green	2/19/2014
	3M DG3 Type XI 4084 - Fl. Orange	2/19/2014
	ORALITE 9900 Brilliant Grade Premium Type F - Fl Yellow Green (029)	7/24/2023
ORALFOL	ORALITE 9900 Brilliant Grade Premium Type F - Fl Yellow (037)	7/24/2023
	ORALITE 9900 Brilliant Grade Premium Type F - Fl Orange (039)	7/24/2023

Work Zone Sheeting

Reboundable Sheeting (Drums, 42-inch Cones, Flexible Tubular Markers, etc.)		
Manufacturer	Product	Approval Date
Avery Dennison	Avery Dennison WR-7100 - Reboundable White	2/19/2014
Avery Dennison	Avery Dennison WR-7114 - Reboundable Fl. Orange	2/19/2014
	3M 3910 - Reboundable White	2/19/2014
3M	3M 3911 - Reboundable Fl. Yellow	5/29/2014
	3M 3914 - Reboundable Fl. Orange	2/19/2014
Orafol	5935 Marathon Reboundable Sheeting - White	11/29/2022
	5935 Mrathon Reboundable Sheeting - Fluorescent Orange	11/29/2022

Sheeting for Barricades (Type XI)		
Manufacturer	Product	Approval Date
Avery Dennison	Avery Dennison W-11100- OmniCube Orange & White 6 in	7/22/2014
3M	3M Diamond Grade DG3 446 Orange & White	7/22/2014
	Roll-up Sheeting for Signs (ASTM D4956 Type VI)	
Manufacturer	Product	Approval Date
Orafol	Oralite® Marathon Roll-up Sign Sheeting	1/1/2016
3M	3M™ Diamond Grade™ Roll-Up Sign Sheeting Series RS64I	1/1/2016

Rigid Sheeting for Signs		
Manufacturer	Product	Approval Date
Use Type H or T	ype SH Sheeting from the Approved Products List, except for orang	e and yellow. For
ora	ange and yellow sheeting, use Type F from the Approved Products I	List.

8/15/2023

Avery-Dennison | Avery Dennison WU-7014 FO Roll-Up Retroreflective ASTM D 4956 Type VI

sign-sheeting (wisconsindot.gov)

NAVIGATING THE APPROVED PRODUCTS LISTS (APL) MARKING MATERIALS CATEGORIES

- Pavement Marking
 - Waterborne Paint
 - Epoxy
 - Permanent Tape
 - Removable Tape
 - Temporary Raised Pavement Markers
 - Wet Reflective/Recoverable Elements

- Delineators & Marker Posts
 - Culvert End Markers
 - Delineator Flexible Posts
 - Guardrail Delineators
 - E.A.T. Marker Posts

NAVIGATING THE APPROVED PRODUCTS LISTS (APL) PAVEMENT MATERIALS CATEGORIES



Pavement Marking & Delineators 2022

Date Last Edited: NOVEMBER 2022



Pavement Marking

Waterborne Paint
Epoxy
Permanent Tape
Removable Tape
Temporary Raised Pavement Markers
Wet Reflective/Recoverable Elements

Delineators and Marker Posts

Culvert End Markers Delineator Flexible Post Guardrail Reflectors E.A.T. Marker Posts

Flexible Tubular Marker Posts

*Devices have been moved to Work Zone Traffic Control Devices.

Linette Rizos

DOTSignMarkWZMaterials@dot.wi.gov

pavement-marking.pdf (wisconsindot.gov)

	Waterb	orne Paint		
Manufacturer	Product	Color	NTPEP Number	Approval Date
	Yellow Premium Waterborne (11Y3)	Yellow	PMM-2011-01-098	JANUARY 2017
Sherwin-Williams	Yellow Premium Waterborne (13Y1)	Yellow	PMM 2013-01-034	JANUARY 2017
	White Premium Waterborne (11W2)	White	PMM 2011-01-095	JANUARY 2017
	High Build Waterborne Paint 985222 Yellow	Yellow	2011-01-062	JANUARY 2017
	High Build Waterborne Paint 985221 White	White	2011-01-056	JANUARY 2017
	Low Temp Waterbone Paint 985352 Yellow	Yellow	PMM-PA-55 (991156)	JANUARY 2017
Capic Fligt Inc	Low Temp Waterbone Paint 985351 White	White	PMM-PA-51 (991152)	JANUARY 2017
Ennis-riine, inc.	Standard Fast Dry Waterborne 984902	Yellow	PMM-2010-01-33	JANUARY 2017
	Standard Fast Dry Waterborne 984901	White	PMM-2010-01-37	JANUARY 2017
	Fast Dry Traffic Paint 984932	Yellow	PMM-2011-01-061	FEBRUARY 2018
Sherwin-Williams Ennis-Flint, Inc. Diamond-Vogel Swarco Ozark Materials Manufacture Poly Carb, Inc	Fast Dry Traffic Paint 984931	White	PMM-2011-01-051	FEBRUARY 2018
Swarco	VP13-Y7 Yellow Waterborne Traffic ((UC35-11926)	Yellow	PMM-2013-01-068	JANUARY 2017
Diamond-Vogel	VP13-W2 White Waterborne Traffic (UC15-11928)	White	PMM-2013-01-063	JANUARY 2017
Diamond-voger	VP13-Y6 Yellow Waterborne Traffic (UC35-15663)	Yellow	PMM-2013-01-067	JANUARY 2017
Diamond-Vogel Swarco Ozark Materials Manufacture	VP13-W3 White Waterbrone Traffic (UC15-15562)	White	PMM-2013-01-064	JANUARY 2017
Swarco	Yellow High Build Waterborne Traffic Paint	Yellow	PMM-2011-01-082	JANUARY 2017
Swarco	White High Built Waterborne Traffic Paint	White	PMM-2011-01-081	JANUARY 2017
	White Fast Dry Waterborne 14245	White	PMM-2017-01-139	OCTBOER 2019
Ozark Materials	Yellow Fast Dry Waterborne 24245	Yellow	PMM-2017-01-140	OCTBOER 2019
OZdi k iviateriais	White Cold weather Waterborne 17245	White	PMM-2017-01-137	NOVEMBER 2019
	Yellow Cold Weather Waterborne 27245	Yellow	PMM-2017-01-138	NOVEMBER 2019
	Slow D	Dry Epoxy		
Manufacture	Product	Color	NTPEP Number	Approval Date
	Mark 55	Yellow		JULY 2020
Sherwin-Williams Ennis-Flint, Inc. Diamond-Vogel Swarco Ozark Materials Manufacture Poly Carb, Inc Ennis-Flint, Inc. Epoplex	Mark 55	White		JULY 2020
	Mark 55.4	Yellow	PA - 2002	JANUARY 2017
Poly Carb, Inc	Mark 55.4	White	PA - 2001	JANUARY 2017
	Mark 55.9	Yellow	PMM-2013-01-84	JANUARY 2017
	Mark 55.9	White	PMM-2011-01-83	JANUARY 2017
	HPS-2 Slow Cure Epoxy	Yellow	PMM-2013-01-056	JANUARY 2017
Ennis-Hint, inc.	HPS-2 Slow Cure Epoxy	White	PMM-2013-01-055	JANUARY 2017
	LS-60	Yellow	PMM-PA-055	JANUARY 2017
	LS-60	White	PMM-PA-054	JANUARY 2017
Epoplex	LS-65	Yellow	PMM-2008-01-193	JANUARY 2017
	LS-65	White	PMM-2008-01-192	JANUARY 2017
	Clarus LL Slow Set Epoxy Pavement Marking	Yellow	PMM-2014-01-122	1/1/2017
23 Infrastructure, Inc.	Clarus LL Slow Set Epoxy Pavement Marking	White	PMM-2014-01-121	1/30/2017
	Yellow Slow Cure Epoxy TW 8221	Yellow	PMM-2008-01-203	4/4/2017
Sherwin Williams	INITIAL CLASS CONTRACTOR TO A CONTRACTOR	Nell-te-	Phillip 2000 01 203	4/4/2017

Temporary Raised Pavement Markers Type 1			
Manufacturer	Product	Color	Approval Date
Ennis-Flint, Inc.	Stimonite	White	-
Ennis-Fillit, Inc.	Stimonite	Yellow	
	3M 290	White	-
www.3m.com	3M 290	Yellow	-
www.sm.com	3M 291	White	
	3M 291	Yellow	-
Ray-O-Lite	Round Shoulder 8800 Series		-
Ray-O-Lite	AA 9700 Series	٠	-
Apex Universal, Inc	Apex 921 Series	White	-
Apex Universal, Inc	Apex 921 Series	Yellow	

Wet Reflective/Recoverable Elements			
Manufacturer	Product	Application Rate	Approval Date
3M	3M Wet Reflective Elements Series 70E	4.1 pounds per gallon of 3M Wet Reflective Elements per 18-22 pounds per gallon of M247 Type 1 Beads.	November 2018
	VisiMax Plus	10 pounds per gallon of VisiMax Plus Wet Recoverable Elements per 10 pounds per gallon of M247 Type 1 Beads.	November 2018
Potters	VisiUltra EP (Previously named VisiUltra NC. Product is unchanged.)	8 lbs per gallon of VisiUltra per 6-8 lbs per gallon of M247 Type 1 Beads.	October 2019

	Delineators & Marker Posts		
Culvert End Markers			
Manufacturer	Product	Color	Approval Date
Safe-Hit	SH248GP3-WV	White	
Pexco-Davidson	FG 500 Series	White	
Carsonite Composites	Survivor 01	White	
Carsonite Composites	Curve-Flex Marker 01	White	
Shur-Tite	Shur-Flex Drivable Delineator (#SD0031)	White	
	Delineator Fl	exible Posts	

	Delineator Flexible Posts			
Manufacturer	Product	Color	Approval Date	
Safe-Hit	SH248GP3-WS	White		
Pexco-Davidson	FG 500 Series	White		
	Survivor 01	White		
Carsonite Composites	Survivor 02	White		
	Curve-Flex Marker 01	White		
Shur-Tite	Shur-Flex Drivable Delineator (#SD0031)	White		
			,	

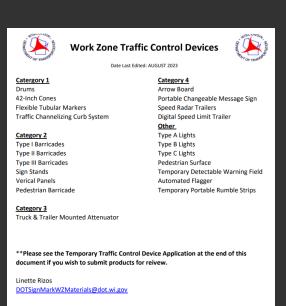
Guardrail Reflectors			
Manufacturer	Product	Color	Approval Date
Pexco	FatCat Guardrail Marker	**	
Artuk	STR413	**	11/12/2021
	E.A.T. Mar	ker Posts	
Manufacturer	Product	Color	Approval Date
Pexco-Davidson	FG 500 Series	Yellow	
Carsonite Composites	Survivor 02	Yellow	

NAVIGATING THE APPROVED PRODUCTS LISTS (APL) WORK ZONE TRAFFIC CONTROL DEVICES CATEGORIES

- Category 1
 - Drums
 - 42-Inch Cones
 - Flexible Tubular Markers
 - Traffic Channelizing Curb System
- Category 2
 - Type 1 Barricade
 - Type 2 Barricade
 - Type 3 Barricade
 - Sign Stands
 - Vertical Panels
 - Pedestrian Barricade
- Category 3
 - Truck & Trailer Mounted Attenuator

- Category 4
 - Arrow Board
 - Portable Changeable Message sing
 - Speed Radar Trailers
 - Digital Speed Limit Trailer
- Other
 - Type A Lights
 - Type B Lights
 - Type C Lights
 - Pedestrian Surface
 - Temporary Detectable Warning Field
 - Automated Flagger
 - Temporary Portable Rumble Strips

NAVIGATING THE APPROVED PRODUCTS LISTS (APL) WORK ZONE TRAFFIC CONTROL DEVICES CATEGORIES



	Catage 4		
	Category 1		
Manufacturer	Product	Approval Date	Bid Item #
Lakeside Plastics	Director Drum	OCTOBER 2017	
Traffix Devices	18000 Series Drum LifeGuard II	OCTOBER 2017 OCTOBER 2017	
Plastic Safety Systems	Commander Drum	OCTOBER 2017	
Plasticade	Econocade II Drum	SEPTEMBER 2019	643.0300
(Former Work Area Protection)	Lane Changer Traffic Drum - B500 LC	OCTOBER 2017	
Bent Manufacturing Company	Superdome Drum	JULY 2018	
Cortina	Cortina Channelizer Boss Drum	APRIL 2021	
COFUNA	42-Inch Cones	APRIL 2021	
Manufacturer	Product Colles	Approval Date	Bid Item #
	***************************************		Biu item #
Lakeside Plastics	Diverter Channelizer	OCTOBER 2017	
PSS	Navigator, 42" Slimline Channelizer	OCTOBER 2017	
Plasticade	42" Channelizer C-42	DECEMBER 2017	
(Former Work Area Protection)	Navigade Channelizer Cone	JANUARY 2018	643.1070
Bent Manufacturing Company	Tear Drop and T-Top Channelizers	JULY 2018	643.1070
TrafFix Devices	Looper Cone (42") 16 lb & 30 lb Bases	JULY 2018	
UAT	NG Gorilla Grip 42" Channelizer	JULY 2020	
Cortina	Grip N Go 42" Channelizerizer Cone	APRIL 2021	
Cortain	Flexible Tubular Marker	70 1112 2022	
Manufacturer	Product	Approval Date	Bid Item #
manufacturer	FG 300 Series Posts	OCTOBER 2017	Did itelli ii
-	CityPost Bolt Down	OCTOBER 2017	
1	CityPost SM Surface Mount	OCTOBER 2017	
	CityPost GD Glue Down	OCTOBER 2017	
Pexco	Davidson FG 300 UR Series	OCTOBER 2017	
	Flexi-Guide FG 300 Model PE Series	OCTOBER 2017	
l	Flexi-Guide FG 300 Model EFX Series	OCTOBER 2017	
İ	Davidson DP 200 Channelizer Post	OCTOBER 2017	
FlexStake	FlexStake TM750 Series	OCTOBER 2017	
Valtir, LLC	Dura-Post	OCTOBER 2017	643.0500
(Formerly Triinity)	Safe-Hit	OCTOBER 2017	643.0600
Bent Manufacturing Co.	Masterflex Post-EX Series	OCTOBER 2017	
New Direction Manufacturing	350 Surface Mount	OCTOBER 2017	
Shur-Tite	Shur-Flex Surface Mount	OCTOBER 2017	
Lakeside Plastics	Divider - Surface Mount Post	OCTOBER 2017	
Impact Recovery Systems	MP2 Flex Post	MARCH 2018	
	OMEGA POST - OP2	JULY 2020	
Safe-Hit	Dura-Post	OCTOBER 2017	
Impact Traffic	Tuff Post (SPEC-TP3)	OCTOBER 2017	
*Flexible Tubular Markers Devices may be	used for Work Zone or Permanent Application		
	Traffic Channelizing Curb Syste	em	
Manufacturer	Product	Approval Date	Bid Item #
Shur-Tite	Shur-Curb Traffic Separator	OCTOBER 2017	
Qwick Kurb, Inc.	Qwick Kurb	OCTOBER 2017	
	FG 300 Turnpike Curb System	OCTOBER 2017	
Pexco	FG 300 Interstate Grade Curb System	OCTOBER 2017	
	Tuff Curb	MARCH 2018	
mpact Recovery Systems			

	Category 2				
Manufacturer	Type I Barricades			Bid Item #	
		Approval Date	Expiration Date	Bid Item #	
Rent-A-Flash	T1 Wood Barricade (WZ-54)	OCTOBER 2017	4 1		
Plasticade	Combocade Type I Aluminum Barricades	OCTOBER 2017 OCTOBER 2017	1/1/2025	643.0405	
Warning Lites of Mn Traffic Control & Protection Inc	Type 1 Barricade	MAY 2018	- 1		
Irathic Control & Protection Inc	Type II Barricades	MAT 2016			
Manufacturer	Product	Approval Date	Expiration Date	Bid Item #	
	WZ-54	OCTOBER 2017	Expiration bate	DIG ILLEIN	
Bent Manufacturing Company	Universal Plastic Barricade	JULY 2018	1 1		
Traffix Devices	35000 Series	OCTOBER 2017	1 1		
Rent-A-Flash	T2 Wood Barricade (WZ-54)	OCTOBER 2017	1 1		
Plasticade	Combocade Type II	OCTOBER 2017	1 1		
Warning Lites of Mn	Aluminum Barricades	OCTOBER 2017	1/1/2025	643.0410	
Traffic Control & Protection Inc	Type 2 Barricade	MAY 2018	1 1		
	Type II Barricade with Wooden Panes & Steel Angle		1 1		
United Rentals Highway Technology	Uprights	JULY 2018	1		
	Lo-Pro 350 Sign Stand	JULY 2018	1		
	Type III Barricades				
Manufacturer	Product	Approval Date	Expiration Date	Bid Item #	
Perco	WZ-380	SEPTEMBER 2019			
Pexco	WZ-381	SEPTEMBER 2019	1 1		
Warning Lites of Mn	Aluminum Barricades	OCTOBER 2017	1 1		
Q3	Aluminum Type III Barricade	OCTOBER 2017	1 1		
Rent-A-Flash	T3 Wood/Plastic (WZ-40)	OCTOBER 2017	1 1	643.0420	
PSS	Anchor Mast Barricade System	OCTOBER 2017	1/1/2025		
33	LaneGuard 3, Callapsible Barricade System	OCTOBER 2017	1 1		
	Plasticade Telespar Type III Barricade	OCTOBER 2017]		
Plasticade	PowerPost Type III with Volcano Base	DECEMBER 2017	IBER 2017		
	Angle Iron Type III Barricade - 3900 Series	MARCH 2018	1 1		
Bent Manufacturing Company	Type III Barricade	OCTOBER 2019			
	Sign Stands				
Manufacturer	Product	Approval Date	Expiration Date	Bid Item #	
	Little Buster 24000 Series (WZ-108)	OCTOBER 2017			
Traffix Devices	Big Buster Part #60060 - BRU (with Roll-Up)	MARCH 2018	1 1		
	Big Buster Part #60060 - RSB (with Rigid Sign Bracket)	MARCH 2018	1 1		
	TwinFlex (TF-18)	OCTOBER 2017			
			1 1		
Dickie Tool	TF60-RUB or RGB	FEBRURARY 2017			
Dickie Tool	TF60-RUB or RGB UF2000W	MARCH 2021	1		
	TF60-RUB or RGB UF2000W 5018K	MARCH 2021 OCTOBER 2017			
	TF60-RUB or RGB UF2000W 5018K 4860K	MARCH 2021 OCTOBER 2017 JANUARY 2018			
MDI	TF60-RUB or RGB UF2000W 5018K 4860K 4818K	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018			
MDI Bone Safety Signs	TF60-RUB or RGB UF2000W 5018K 4850K 4818K 52.484-25	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017			
MDI Bone Safety Signs Quality Restoration Services Inc.	TREO-RUB or RGB UF2000W 5018K 4860K 4818K 52-184-25 QRS Vertical Sign Stand	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017 OCTOBER 2017			
MDI Bone Safety Signs Quality Restoration Services Inc.	TF60-RUB or RGB UF2000W 5018K 4850K 4818K 52.484-25	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017			
MDI Bone Safety Signs Quality Restoration Services inc. Mathy Construction Company	TREO-RUB or RGB UF2000W 5018K 4860K 4818K 52-184-25 QRS Vertical Sign Stand	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017 OCTOBER 2017			
Dickle Tool MOI Mone Safety Signs Quality Restoration Services Inc. Mathy Construction Company United Rental Highway Technologies	TIFG RUIL OF RIGH (UF2000W) 5.018K 4850K 4818K 52.4484.75 (USS Vertical Sign Stand Matthy Work Zone A Frame Sign Stand to Pro 350 Sign Stand	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017 OCTOBER 2017 MAY 2018 JULY 2018	1/1/2025		
MDI Bone Safety Signs Quality Restoration Services Inc. Mathy Construction Company United Rental Highway Technologies	TFG-0-Ris 0- ricks UF2000W 5018K 4850C 4818C 4818C 4818C 4818 T	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017 OCTOBER 2017 MAY 2018 JULY 2018 AUGUST 2019	1/1/2025		
MDI Bone Safety Signs Quality Restoration Services Inc. Mathy Construction Company United Rental Highway Technologies	TF60 At 80 × 608 UF2000W 5018K 4850K 4850K 52.446.25 US.446.25	MARCH 2021 OCTOBER 2017 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017 OCTOBER 2017 MAY 2018 JULY 2018 AUGUST 2019 OCTOBER 2019	1/1/2025		
MDI Bone Safety Signs Quality Restoration Services Inc. Mathy Construction Company United Rental Highway Technologies	TFG-0-Ris Or 6GB UF2000W 5018K 4850C 4818C 054484-75 ORS Vertical Sign Stand Lo-Po 350 Sign Stand Lo-Po 350 Sign Stand Temporary Sign Stand Temporary Sign Stand Temporary Sign Stand Sign Stand Temporary Sign Stand	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 OCTOBER 2017 MAY 2018 JULY 2018 AUGUST 2019 OCTOBER 2019 JULY 2020	1/1/2025		
MDI Bone Safety Signs Quality Restoration Services Inc. Mathy Construction Company United Rental Highway Technologies	TIFEO RULE OF RICE UT 2000W SSILEC 4850C 4850C 4850C 4850C GISS Vertical Sign Stand Mathy Work Zone A Figure Sign Stand Mathy Work Zone A Figure Sign Stand SERVE SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 JANUARY 2018 OCTOBER 2017 OCTOBER 2017 MAY 2018 JULY 2018 AUGUST 2019 OCTOBER 2019 JULY 2020	1/1/2025		
MDI Bone Safety Signs Quality Restoration Services Inc. Mathy Construction Company United Rental Highway Technologies	TFG 0-Rid to PGB (U72000W) 5018K 4850K 4850K 521-484-25 ORS Vertical Spg Stand Lo-Po 350 Spg Stand Lo-Po 350 Spg Stand Temporary Spg Stand Temporary Spg Stand 55520A Spg Stand 55520A Spg Stand 55520A Spg Stand 55520A Spg Stand	MARCH 2021 OCTOBER 2017 IANUARY 2018 IANUARY 2018 IANUARY 2018 OCTOBER 2017 MAY 2018 JULY 2018 AUGUST 2019 OCTOBER 2019 JULY 2020 JULY 2020 JULY 2020	1/1/2025	_	
MDI Bone Safety Signs Quality Restoration Services Inc. Mathy Construction Company United Rental Highway Technologies	TFEO RULE OF REE UF2000W 5018K 4850K 4850K 4850K 4850K 4850K 5018K 501	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 JANUARY 2018 JANUARY 2018 JULY 2018 JULY 2018 AUGUST 2019 OCTOBER 2017 MAY 2018 JULY 2020 JULY 2020 JULY 2020 JULY 2020 JULY 2020	1/1/2025	******	
MOI Boue Sufery Signs. Boue Sufery Signs. Bound Sufery Signs. Boundary Continues Inc. Martin Company Martin Suferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferia	TF60 All to 1 AGB UF2000W 5018K 4800K 4800K 52.484.53 GS Vertical Sign Stand Mathy Work Zone AF-Fame Sign Stand Mathy Work Zone AF-Fame Sign Stand Fine Pro 310 Sign Stand Fine Pro 310 Sign Stand SSSSMA Sign Stand	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 JANUARY 2018 JANUARY 2018 JULY 2018 JULY 2018 JULY 2018 JULY 2018 JULY 2020	1/1/2025	som.	
MOI Boue Sufery Signs. Boue Sufery Signs. Bound Sufery Signs. Boundary Continues Inc. Martin Company Martin Suferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferia	TFG R410 or R68 UF2000W 5018K 4850C 4810C 4810C 4810C 4810C 4810E 4850C 4810E 4850C 4810E 5810E	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 JANUARY 2018 AUGUST 2019 AUGUST 2019 AUGUST 2019 JULY 2010 JULY 20	1/1/2025		
MOI states Signs services inc. Duality Mentionation Services inc. Malely Continuation Company mixed Bental Highway Technologies colespor	TFEO AULI O FIGE UF2000W 5018C 4850C 4850C 5186C 4850C 5184C	MARCH 2021 OCTOBER 2017 JANUARY 2018 JANUARY 2018 JANUARY 2018 JANUARY 2018 JULY 2018 JULY 2018 JULY 2018 JULY 2018 JULY 2020	1/1/2025		
MOI Boue Sufery Signs. Boue Sufery Signs. Bound Sufery Signs. Boundary Continues Inc. Martin Company Martin Suferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferia	TIFGO RUIS OF RIGHT UP 2000W 5018K 4850K 4850K 4850K 005 Wentucal Spigs Stand Lo-Pro 350 Spig Stand In-Pro 350 Spig Stand Temporary Spig Stand Temporary Spig Stand 55530A Spig Stand 55530A Spig Stand 55540A Spig Stand	MARCH 2021 JANUARY 2018 JANUARY 2018 JANUARY 2018 JANUARY 2018 JANUARY 2018 JAVY 2018 JAVY 2018 JAVY 2010	1/1/2025		
MOI Boue Sufery Signs. Boue Sufery Signs. Bound Sufery Signs. Boundary Continues Inc. Martin Company Martin Suferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferial Sufferia	TFEO RUIL OF RORS UF2000W SSIEK 4850K 4850K 4850K 4850K SSENSON SERVICES Sign Stand MAINY WON Zone AF-Fam Sign Stand MAINY WON Zone AF-Fam Sign Stand IN-PHO 350 Sign Stand IN-PHO 350 Sign Stand IN-PHO 350 Sign Stand SSENSON Sign Stand	MARCH 2021 JANUARY 2018 JANUARY 2018 GCTOBER 2017 GCTOBER 2017 GCTOBER 2017 GCTOBER 2017 GCTOBER 2017 JULY 2018 JULY 2018 AUGUST 2019 JULY 2010 1/1/2025			
MDI Bone Safety Signs Quality Restoration Services inc. Mathy Construction Company	TIFGO RUIS OF RIGHT UP 2000W 5018K 4850K 4850K 4850K 005 Wentucal Spigs Stand Lo-Pro 350 Spig Stand In-Pro 350 Spig Stand Temporary Spig Stand Temporary Spig Stand 55530A Spig Stand 55530A Spig Stand 55540A Spig Stand	MARCH 2021 JANUARY 2018 JANUARY 2018 JANUARY 2018 GCT068R 2017 JANUARY 2018 GCT068R 2017 MAY 2018 JAVY 2018 JAVY 2018 JAVY 2018 JAVY 2019 JAVY 2010 JAVY 201	1/1/2025		

	Other			
Manufacturer	Type A Lights Product	Approval Date		Bid Item #
Manufacturer	Model 2006	OCTOBER 2017		Bid Item#
	Toughlite 2000	OCTOBER 2017		
Empco-Lite	Empco Y2K Barricade Light	MARCH 2018		l .
	Empco 6V 400 LED	SEPTEMBER 2019		
Dicke Safety Products	AC4D-NL	OCTOBER 2017		643.0705
	BR3.AC.D3/D4 BR6.AC.D3/D4	OCTOBER 2017 OCTOBER 2017		643.0705
Pi-Variables, Inc	BC3.AC.D3/D4	OCTOBER 2017		l .
	BC6.AC.D3/D4	OCTOBER 2017		l .
	BS.AC.D1/D2	OCTOBER 2017		
Pi-Variables, Inc	Type A Lights	JULY 2018		
Manufacturer	Type B Lights Product	Approval Date		Bid Item #
	BR3.B.D3/D4	OCTOBER 2017		DIG Item w
Checkers Industrial Safety Products	BS.B.D1/D2	OCTOBER 2017		l .
	Toughtlite 2000	OCTOBER 2017 MARCH 2018		643.0710
Empco-Lite	Empco Y2K Barricade Light	MARCH 2018 SEPTEMBER 2019		l .
	Empco 6V 400 LED Type C Lights	JEF TEMBER 2029		
Manufacturer	Product	Approval Date		Bid Item #
	Model 2006	OCTOBER 2017		
Empco-Lite	Toughlite 2000 Empco Y2K Barricade Light	AUGUST 2019 MARCH 2018		
	Empco 6V 400 LED	SEPTEMBER 2019		
Dicke Safety Products	AC4D-NL	OCTOBER 2017		l .
Dicke Salety Froducts	BR3.AC.D3/D4	OCTOBER 2017		643.0715
	BR6.AC.D3/D4	OCTOBER 2017		643.0713
Checkers Industrial Safety Products	BC3.AC.D3/D4	OCTOBER 2017		
	BC6.AC.D3/D4	OCTOBER 2017		l .
C & C Lights (now owned by Checkers Industrial	BS.AC.D1/D2	OCTOBER 2017		l .
C & C Lights (now owned by Checkers industrial Safety Products)	Type C Lights Pedestrian Surface (Pedestrian Walkway S	JULY 2018		
Manufacturer	Product	Approval Date	Expiration Date	Bid Item #
	BoardWalk Ramp	OCTOBER 2017		
PSS	Boardwalk Platform 2	OCTOBER 2017	1	l
	RapidRamp: The express ADA Ramp	MARCH 2023	1	l
Diamond Discs Inter	Ped Utility Trench Cover	JULY 2020		l
Central State Construction	CSC Ramp 1	JANUARY 2021	4	l
Checkers Safety Industrial Products	Versamat Ground Protection Mat	JUNE 2021	1/1/2025	l
Greatmats	Greatmats Ground Protection Mat 1/2 Inch x 4x8	MAY 2022	1/1/2025	
Chippewa Concrete Services	CCS-JF-WI	MAY 2022	1	l
Blue Gator FODS	Blue Gator Ground Protection Mats GPM Ground Protectoin Mat, Model #1200 AM	JULY 2022 JULY 2022		l
			1	
Spartan Composites James Peterson Sons, Inc	Scout Mat	MARCH 2023	1	
James Peterson Sons, Inc Detectable Warning Systems	Scout Mat JPS Curb Ramp Detectable Warning Systems AlertTile Truncated Domes Temporary Detectable Warning Fle	MARCH 2023 AUGUST 2023 AUGUST 2023		
James Peterson Sons, Inc Detectable Warning Systems Manufacturer	Scout Mat JPS Curb Ramp Detectable Warning Systems AlertTile Truncated Domes Temporary Detectable Warning Fiel Product	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 Approval Date	Expiration Date	Bid Item #
James Peterson Sons, Inc Detectable Warning Systems	Scout Mat JPS Curb Ramp Detectable Warning Systems Aertille Truncated Domes Temporary Detectable Warning Fle Product ADA -5-80446-5	MARCH 2023 AUGUST 2023 AUGUST 2023	Expiration Date	Bid Item#
James Peterson Sons, Inc Detectable Warning Systems Manufacturer ADA Solutions	Scout Mat PS Curb Ramp Detectable Warning Systems Alext file Troncated Cornes Temporary Detectable Warning Fle Product AAA -532-46-1 Automated Flagger Devices	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 Id Approval Date MAY 2022	Expiration Date	
James Peterson Sons, Inc Detectable Warning Systems Manufacturer	Scott Mat #PS Curb Ramp Detectable Warning Systems Avertile Truncated Domes Temporary Detectable Warning File Product ADA - 542-46-5.1 Automated Flagger Devices Product	MARCH 2023 AUGUST 2023 AUGUST 2023 eld Approval Date MAY 2022 Approval Date	Expiration Date	Bid Item #
James Peterson Sons, Inc Detectable Warning Systems Manufacturer ADA Solutions	Scott Mat FS Curb Ramp Detectable Wening Systems AbutTile Truncated Gomes Temporary Detectable Warning File Product ADA: \$52448-3 Automated Flagger Devices Product FP12.41D FOrtable Flagger Light	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 Id Approval Date MAY 2022	Expiration Date	
James Peterson Sons, Inc Detectable Warning Systems Manufacturer ADA Solutions Manufacturer	Scott Mat #PS Curb Ramp Detectable Warning Systems Avertile Truncated Domes Temporary Detectable Warning File Product ADA - 542-46-5.1 Automated Flagger Devices Product	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 Idd Approval Date MAY 2022 Approval Date JUNE 2019	Expiration Date	
James Peterson Sons, Inc Detectable Warning Systems Manufacturer ADA Solutions Manufacturer	Stood Mat STOOD CAN AND AND AND AND AND AND AND AND AND A	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 AIGUST 2023 Approval Date MAY 2022 Approval Date JUNE 2019 JUNE 2019	Expiration Date	
James Peterson Sona, Inc Detectable Warning Systems Manufacturer ADA Solutions Manufacturer North America Traffic Inc. TI WANNCO	Scool Matt ## SCOOL Matt ## SCOOL Matt ## SCOOL Matt ## SCOOL Many Online South ## SCOOL Matter Translated Durses Temporary Detectable Warning File ## Product ## ADD 15-50-464-1 ## SCOOL Matter ## SCOOL Mat	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 Approval Date MAY 2022 Approval Date JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2021 JUNE 2021 JUNE 2021	Expiration Date	
James Peterson Sons, loc Detectable Warning Systems Manufacturer ADA following Manufacturer North America Traffic Inc. ITI WARKCO UNIVERSITY TO THE TRANSPORT OF THE TRANSPORT	Stoot Mat ## Court Rung Detectable Warring Systems And The Transacted Domes Temperary Detectable Warring File Product ADA: 5424843 Automated Flagger Devices Product FIL2.40.D Portable Flagger Egyer FIL2.40.D Portable Flagger System FIL2.44.D Portable Flagger System FIL2.44.D Automated Flagger Austrance Devices WARAD WARAD Automated Flagger A-100	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 APProval Date MAY 2023 Approval Date JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2022 APR. 2022 APR. 2022	Expiration Date	
James Peterson Sona, Inc Detectable Warning Systems Manufacturer ADA Solutions Manufacturer North America Traffic Inc. TI WANNCO	Scool Matt ## SC	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 Approval Date MAY 2022 Approval Date JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2022 APPIR 2022 FEBRUARY 2022 FEBRUARY 2023	Expiration Date	
Lames Peterson Sons, Inc Ordertable Warming Systems Manufacturer ADA Solutions Manufacturer North America Traffic Inc. ID WANCO Oppring Tachnology Ver-Mac	Social Mott Stock Mott For Curb Ramp Device dank Warning Systems Annith Triviation Dismos Temporary Detectable Warning For Annithment Common Systems Annithment Common Annithment Flagger System PLD ALD Partiable Flagger System WARAD Automated Flagger ALD WARAD Automated Flagger ALD Ver Mac Flagger Mac Temporary Portable Rumshies Strip Temporary Portable Rumshies Strip	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 APPROVAID Date MAY 2022 Approval Date JUNE 2019	Expiration Date	Bid Item #
James Peterson Sons, loc Detectable Warning Systems Manufacturer ADA following Manufacturer North America Traffic Inc. ITI WARKCO UNIVERSITY TO THE TRANSPORT OF THE TRANSPORT	Scool Matt ## SC	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 Approval Date MAY 2022 Approval Date JUNE 2019 APPR 2022 APPR 2022 APPR 2022 APPR 2022 APPR 2023 APPR 2023 APPR 2023	Expiration Date	
Lames Peterson Sons, Inc Ordertable Warming Systems Manufacturer ADA Solutions Manufacturer North America Traffic Inc. ID WANCO Oppring Tachnology Ver-Mac	Social Mott Stock Mott For Curb Ramp Device dank Warning Systems Annith Triviation Dismos Temporary Detectable Warning For Annithment Common Systems Annithment Common Annithment Flagger System PLD ALD Partiable Flagger System WARAD Automated Flagger ALD WARAD Automated Flagger ALD Ver Mac Flagger Mac Temporary Portable Rumshies Strip Temporary Portable Rumshies Strip	MARCH 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 AUGUST 2023 APPROVAID Date MAY 2022 Approval Date JUNE 2019	Expiration Date	Bid Item #
James Peterson Sons, Inc Oderctable Warning Systems Manufacturer AbA Solution Manufacturer North America Traffic Inc. III WARKED Verw Abec Manufacturer Manufacturer Manufacturer PSS Manufacturer PSS	Social Molet For Curp Ramp Desirable Winning Systems Assists Trousing Domes Temporary Detectable Warning Fell Australia 1 Fredect Rossilia 1 MARCH 2023 AUGUST 2023 AUGUST 2023 ALGUST 2023 ALGUST 2023 APPROVAI Date MAY 2022 Approval Date JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 APPR. 2022	Expiration Date	Bid Item #	
James Peterson Sons, Inc Onterctable Warmer Systems Manufacturer Abs Solutions Manufacturer North America Traffic Inc. If If WANCO Lyver ps Technology Ver Abe Manufacturer Manufacturer Manufacturer Manufacturer	Stood Matt ## Stood Matt ## Stood Matt ## Stood Matt ## Stood Ramp Destends Warring Systems Andreas Temporary Destendable Warring File Product ## Product ## Stood Matter ## Stood Matter ## Automated Flagger Devices Product ## Product ## Stood Matter ## S	MARCH 2023 AJRGUST 2023 ALGUST 2023 ALGUST 2023 APPROVAID TABLE MAY 2022 APPROVAID TABLE JUNE 2019 JUNE 20	Expiration Date —	Bid Item #
James Peterson Sons, Inc Oderctable Warning Systems Manufacturer AbA Solution Manufacturer North America Traffic Inc. III WARKED Verw Abec Manufacturer Manufacturer Manufacturer PSS Manufacturer PSS	Soout Matt ## SCAUTR Ramp Oxistically Warring Systems Asketts Tricurated Draws Temporary Detectable Warring Fell Product Automated Flagger Devices Froduct FF12.40 Portable Flagger Byte FF12.40 Portable Flagger System FF12.40 Portable Flagger Matter FF12.40 Portable Flagger Matter MATAD Automated Flagger Al-100 Ver Matt Flagger Matter FF000ct FF0000ct FF00000ct FF0000ct FF00000ct FF000000ct FF00000ct FF00000ct FF00000ct FF00000ct FF00000ct FF00000ct FF00000ct FF00000ct FF00000ct FF000000ct FF00000ct FF00000ct FF000000ct FF000000ct FF000000ct FF000000ct FF0000000ct FF000000ct FF0000000ct FF0000000ct FF000000ct FF0000000ct FF00000000ct FF00000000ct FF00000000ct FF000000000ct FF0000000000ct FF0000000000000ct FF00000000000000000000000000000000000	MARCH 2023 AJRGUST 2023 ALGUST 2023 ALGUST 2023 APPROVAID TABLE MAY 2022 APPROVAID TABLE JUNE 2019 JUNE 20	Expiration Date	Bid Item #
James Peterson Sons, Inc Ontertable Warner Systems Manufacturer AAA Solidans Manufacturer North America Traffic Inc. On ONANCO Opener Technology Ver Mac Manufacturer PSS Traffic Devices	Scool Matt ## Scool Matt ## Scool Matt ## Scool Matt ## Scool Main ## Sc	MARCH 2023 ALGUST 2023 ALGUST 2023 APPROVAID Date MAY 2022 APPROVAID Date JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 JUNE 2019 ARX 2022 APPR 2022 APPR 2022 APPR 2023 APP	Expiration Date	Bid Item #

APPLICATION PROCESS

- Signing, Marking & Work Zone Approved Products Lists have the Application Process Listed within the online document.
- Each process is very similar but has minor differences.
- All applications are to be submitted to DOTSignMarkWZMaterials@dot.wi.gov

APPLICATION PROCESS

- Signing & Marking Approval:
 - Materials submitted are reviewed to make sure all submitted materials meet the approval criteria.
- Work Zone Temporary Traffic Control Devices Approval:
 - Work Zone Engineers & TDU Materials Engineer Meet once a month to review any submitted products and discuss any concerns or compliance questions
- APLs are only updated ONCE a month, and ONLY updated in the instances there are product name changes, product changes, new product submissions, discontinued use of a product type or a product is no longer being produced.

APPLICATION PROCESS **SIGNING**

- Procedure for application can be found on page 1.
- Application for product submission is found on page 4.

Procedure for New Sign Sheeting Material Acceptance:

- Vendor, supplier or manufacturer submits request to have product reviewed and considered for addtion to the WisDOT Approved Sign Sheeting Products List.
- 2. The vendor, supplier or manufacturer submits Quality Control Plan (including warranties), Data Sheets (MSDS, Product Data Bulletins, etc.), Installation Specifications, Two (2) 12"x12" samples of each color, 3 Year NTPEP Test Data from Minnesota Test Deck and Accelerated Indoor weather Testing from an Independent Lab (if NTPEP Data is unavailable).
- Evaluate product information to ensure compliance with the appropriate Standard Specification and the daytime luminance values contained in ASTM 04956 and 655 CFR Subpart F.
- WisDOT BTO sends response letter to vendor, supplier or manufactuer.
- Update the WisDOT Approved Sign Sheeting Products List accordingly.

	Sign Sheeting: Approved Products Application
Applic	cation Information
	Company Name:
	Phone Number:
	Address:
	Email Address:
	Website:
Please applica	only submit <u>one</u> application per product. You may submit multiple colors of the same product on the same tion.
Produ	ict Information
	Product Name:
	Color(s):
	Sheeting Type:
	☐ Type H (Partial Cubed Prismatic Sheeting)
	☐ Type F (Fl. Yellow Green, Fl. Yellow & Fl. Orange Sheeting)
	☐ Type SH (Full Cubed Prismatic Sheeting)
	☐ Reboundable Sheeting
	☐ Type XI (Sheeting for Barricades)
	☐ ASTM D4956 Type VI (Roll-Up Sheeting)
	Primary Use:
	☐ Permanent
	☐ Temporary/Work Zone
	□ Other
	Has this product, or similar products been used previously by WisDOT?
	If yes, please explain:
Docur	ments to Submit
☐ Qua	ality Control Plan (including warranties)
□ Dat	a Sheets (MSDS, Product Data Bulletins, etc.)
☐ Inst	tallation Specifications
☐ Sub	mit two (2) 12"x12" samples of each color
☐ 3-y	ear NTPEP Test Data from Minnesota Test Deck
☐ Acc	elerated Indoor Weather Testing from an Independent Lab (if NTPEP Data is unavailable)
Signat	ture
	Signed: Date:
	Printed Name: Title:
Sub	mit this application and supporting documents to: Linette Rizos Bureau of Transportation Operations Department of Transportation 3609 Pierstoff St. Madison, WI 53704 DOTSIgnMark@Materials@dot.wi.gov

APPLICATION PROCESS **MARKING**

- Procedure for application can be found on page 6.
- Application for product submission is found beginning on page 9.
- Appendices B & C for required test values are found on page beginning on page 11.

Pavement Marking Approval Process

The pavement marking materials are covered by this approval process

The Wisconsin Department of Transportation provides manufacturers or vendors two options to apply for addition to the approved products list in Wisconsin. In order to be considered, the vendor or manufacturer must initiate the evaluation of their pavement marking material.

Qualification for Immediate Approval

- The subject material has been tested and has NTPEP data for two (2) years or more from the Northern test decks from 2008 or later. Refer to Appendix B & C for required test
- 2. Submit the required Application Form, Test Data, Installation Specifications, Product Specifications, Report, and Product Sample as follows:
- Application Form
- . Test Data: Submit NTPEP test data from participation in Northern Test Deck for comparison to Wisconsin Department of Transportation's (WisDOT) qualification and performance requirements. The NTPEP data will include:
 - Durability Data Retro-reflectivity Data
- Color Data
- Bead Data
- Application Data
- Weather Data
- Limitations
- . Installation Specifications: Submit proper product installation instructions along with a website address where the installation specifications can be located.
- · Product Specifications: Submit product specifications that include the material safety data sheet and any other literature along with a website address where the specifications
- Report: Submit a written report containing all of the following information and a statement agreeing to the provisions of the application and review process.
 - Technical Assistance: The name(s), telephone number(s) and email addresses for the vendor or manufacturer representatives

Wisconsin Department of Transportation Pavement Marking: Approved Products Application Application Informatio Company Name: Email Address:

Company Name:

Product Informatio

Product Name and Mode Type of Marking: ☐Solventborne Pair ☐ Waterborne Paint

Has this product, or similar products been used previously by WisDOT? ☐ Yes ☐ No

Documents to Submit:

Quality Control Plan

☐Installation Specification ☐ Material Safety Data Sheet

☐Technical Assistance

Other Literature

Submit a 1 pint or 10 ft sample of your product

Linette Rizos Department of Transportation

(414) 333.6234

APPENDIX B

	Wh	ite Color l	Requireme	ents		
Daytime Chromaticity Coordinates (Corner Points)						
	2		3		4	
y	X	y	X	y	X	y
0.355	0.305	0.305	0.285	0.325	0.335	0.375
	у	Daytime Chron	Daytime Chromaticity Co	Daytime Chromaticity Coordinates (y x y x y	Daytime Chromaticity Coordinates (Corner Points) 2 3

		Yel	low Color	Requirem	ient		
	Day	time Chro	maticity Co	ordinates ((Corner Po	ints)	
	1	2		3		4	
X	y	X	y	X	y	X	Y
0.560	0.440	0.490	0.510	0.420	0.440	0.460	0.400

	White				
Material	Expected Life (years)	Initial Retro	Retro After 1 year	Retro After 2 years	End of Life Durability
Paint	2	275	200	100	7
Epoxy	4	275	225	150	8
Permanent Tape	8	650	400	350	8

		1	'ellow		
Material	Expected Life (years)	Initial Retro	Retro After 1 year	Retro After 2 years	End of Life Durability
Paint	2	185	100		7
Epoxy	4	185	140	100	8
Permanent Tape	8	425	335	250	8

Material	Expected Life (months)	Initial Retro	Retro After 6 Months
Temporary Tape - White	6	300	150
Temporary Tape - Yellow	6	200	100

APPLICATION PROCESS WORK ZONE TRAFFIC CONTROL DEVICES

- Procedure for application can be found beginning on page 6.
- Application for product submission is found on page 8.
- Requirements for devices can be found starting on page test values are found on page 9.

Temporary Traffic Control Device Approval Process

1. INTRODUCTION

The temporary traffic control devices are covered by this approval process.

OUALIFICATION METHOD

The Wisconsin Department of Transportation provides traffic control contractors and county forces with the process to apply for addition to the approved products list in Wisconsin. To be considered, the traffic control contractor and county forces must initiate the evaluation of their temporary traffic control device.

- The subject device will require a letter of self-certification or FHWA eligibility letter. Refer to Appendices for requirements. Devices that do not meet MASH requirements but meet NCHRP 350 may be considered for addition to the list.
- Submit the required Application Form, Self-Certification Letter or FHWA Eligibility Letter, Installation Specifications, Product Specifications and Report as follows:
 Application Form
- * Application Form
- Self-Certification Letter or FHWA Eligibility Letter:
 - Self-Certification Letter should contain at a minimum:
 - A title, e.g., "Certificate of Crashworthiness";
 Name and address of vendor making the certification.
 - Unique identification of the certificate (such as serial number) and of each page and the total number of pages:
 - (iv) Description and unambiguous identification of the item tested: Identification of the basis for the self-certification process used and to what Test Level of NCHRP Report 350. This basis as listed in the July 25, 1997-memo as crash test experience with similar devices or years of demonstrably safe operational performance. (Simplified crash testing showing that a device poses no risk to vehicle occupants may be used to support the manufacturer's certification. This simplified testing must, as a minimum, be documented by a written report,
 - observed by an independent, impartial observer, recorded on videotape, and include a means, other than the test vehicle's speedometer, for determining the vehicle speed at time of impact.

 A signature and title, or an equivalent identification of the person(s) accepting responsibility for the content of the certificate (however
 - A statement that the certificate shall not be reproduced except in full

Wisconsin Department of Transportation Temporary Traffic Control Device: Approved Products Application				
Traffic Control Contractor or County Information				
Physical Address:				
Email Address:				
Vendor Information				
Vendor Name:	Phone Number:			
Address:				
Website:				
Product Information				
	Category 3			
Drums	Truck & Trailer Mounter Attenuator			
42" Cones Flexible Tubular Markers	Category 4 Arrow Board			
Flexible Tubular Markers Traffic Channelizing Curb System	Arrow Board Portable Changeable Message Sign			
Category 2	Speed Radar Trailers			
	Other			
Type II Barricades	Type A Lights			
Type III Barricades	Type B Lights			
Sign Stands	Type C Lights			
Vertical Panels	Pedestrian Surface			
Pedestrian Barricade	Temporary Detectable Warning Field Automated Flagger			
	Temporary Portable Rumble Strips			
	Other			
Product Name and Model:				
Has this product, or similar products been used prev	viously by WisDOT? Yes No			
If yes, please explain:				
Documents to Submit:				
Self-Certification Letter or FHWA Eligibility Lette	er			
Installation Specifications				
Product Specifications				
Report MASH Compliance Letter				
MASH Compliance Letter				
Signature				
Signed:	Title:			
Printed Name:	Date:			
Submit this application and supporting document	ts to:			
Linette Rizos Department of Transportation				

Wisconsin Department of Transportation Temporary Traffic Control Device: Approved Products Applicatio APPENDIX A · Category 1 devices are "self-certified" by each Manufacturer and no testing of these devices is required to meet MASH-16 requirements. These devices may be allowed for use based on the developer's self-certification subject to approval by the individual highway agencies. Weighted Rubber Base Tire or molded base Weight of base should follow manufacturer recommendations Orange o Dimensions and Sheeting requirements meet SDD 15C11-b MASH Compliant 42" TRAFFIC CONTROL CONES o Weighted Rubber Base Molded Weight of base should follow manufacturer recommendations Dimensions and Sheeting requirements meet SDD 15C11-b Written submission of certification from manufacturer or distributor for compliance to MASH FLEXIBLE TUBULAR MARKERS o Plastic bases that hold tube with locking pir Locking pin mechanism for securing device Orange (work zone application) o White (permanent application) Yellow (permanent application) Work Zone Application Dimensions and sheeting requirements meet SDD 15C11-a o Permanent Application Dimensions and sheeting requirements meet SDD 15A04-a MASH Compliant TRAFFIC CHANNELIZING CURR SYSTEM Submit FHWA federal-aid reimbursement eligibility letters Requirements meet MUTCD Section 3H.01 and 6F.72



Formerly known as:



WHAT IS PRODUCT EVALUATION & AUDIT SOLUTIONS (FORMERLY KNOWN AS NTPEP)?

 ASHTO's Evaluation & Audit Solutions (formerly National Transportation Product Evaluation Program or NTPEP) is responsible for evaluating over 26 different types of products used within the construction of roads and bridges and this program also conducts manufacturing audits for 8 different types of construction products.

PRODUCTS EVALUATED BY EVALUATION & AUDIT SOLUTIONS

- Pavement Marking Materials (PMM)**
- PCMS/Flashing Arrow Panels (PCMS/FAP)*
- Raised Pavement Markers (RPM)*
- Snow Plowable Raised Pavement Markers (SPRPM)*
- Sign Sheeting Material /Roll Up Signs (SSM/RUP)*
- Temporary Traffic Control Devices (TTCD)*
- Guardrail/Guiderail (GRL)

- Asphalt Binder Suppliers (ABS)
- Asphalt Mixture Additives (AMA)
- Asphalt Release Agents (ARA)
- Composite Concrete Reinforcements (CCR)
- Concrete Admixtures & Concrete Curing Compounds (CADD/CCC)
- Corrugated Metal Pipe (CMP)
- Elastomeric Bridge Bearing Pads (EBB)
- Epoxy & Resin Based Adhesive Bonding Systems (ERB)
- Erosion Control Products (ECP)
- Detectable Warning Systems (DWS)

- Geosynthetics (GTX & REGEO)
- High Friction & Thin Overlays (HFTO)
- PCC Joint Sealants (JS) & HMA Crack Sealers (CS)
- Thermoplastic Pip (THP)
- Rapid Set Concrete Patch Materials (RSCP)
- Reinforcing Steel & Wire (RSW)
- Pipe Lining Systems (PLS)
- Portland & Blended Cement (PBC)
- Protective Coatings (SSC & CCS)
- PCC Joint Sealants (JS) & HMA Crack Sealers (CS)
- Warm Mix Asphalt Technologies (WMA)

WHAT IS THE PAVEMENT MARKING MATERIALS (PMM) TECHNICAL COMMITTEE?

- Members of the PMM Technical Committee consists of representatives from Departments of Transportation with pavement marking expertise and representatives from the marking industry
 - DOT from each participating state representatives are voting members
 - The committee meets to collaborate on the procedures and parameters that are required for the assessment and performance of pavement marking materials submitted for evaluation.

https://ntpep.transportation.org/technical-committees/pavement-marking-materials-pmm/

WHAT IS A EVALUATION & AUDIT SOLUTIONS PMM TEST DECK?

- Evaluation & Audit Solutions (formerly NTPEP) conducts Accelerated Wear Test evaluations of pavement markings in different zones defined by AASHTO to represent various geographical and climatic regions.
- Starting each spring, manufacturers are asked to submit each individual product they would like to have Evaluation & Audit Solutions tested and certified.
- Depending on the type of pavement marking, the product is subjected to a 1-year, 2-year, or 3-year field test, and depending on the class of the pavement marking, a series of applicable laboratory tests.
- Results are reported through the Evaluation & Audit Solutions DataMine website.

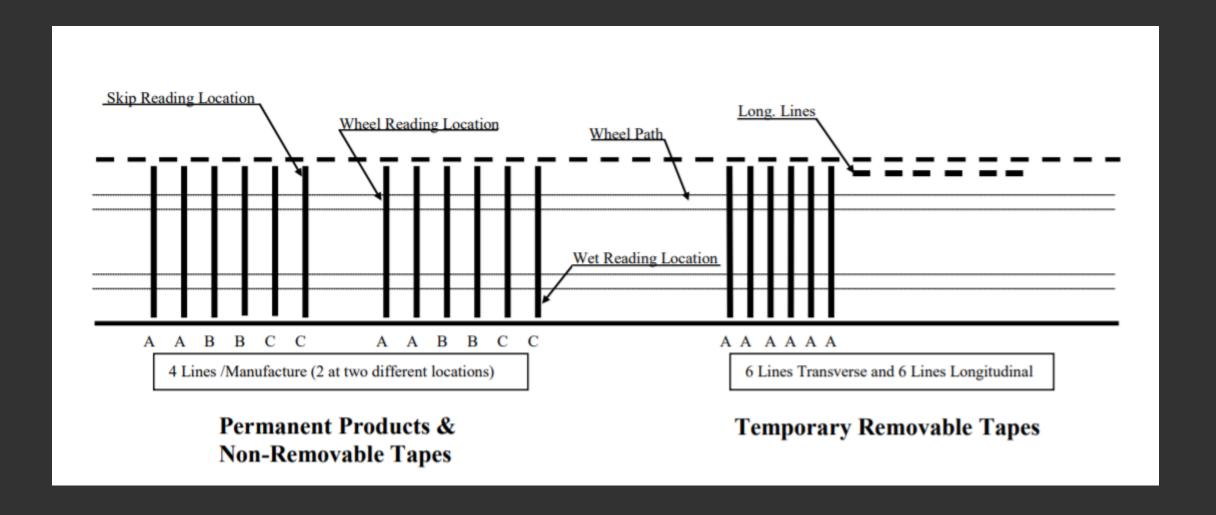
KEY ASPECTS OF THE PROGRAM

- All performance testing is done on an asphalt concrete (HMA) roadway and a Portland cement concrete roadway.
- These "test decks" are located and classified as one of the following:
 - A snowplow (northern state) or
 - A non-snowplow (southern state)
- Field evaluation on all temporary and permanent products include:
 - Retroreflectivity
 - Durability
 - Daytime color
 - Nighttime color (for yellow materials)
 - Wet night retroreflectivity (if requested by the manufacturer)
- Auto-no-track time is performed for paint products at time of install
- Temporary products are tested for six-months
- Permanent markings are evaluated for 3 years

KEY ASPECTS OF THE PROGRAM

- Each product is sampled for laboratory testing
- All markings are installed by the manufacture or an appointed representative.
- The following installation data is recorded:
 - Specifics of the pavement markings
 - Mil thickness
 - Bead type
 - Rate applied
 - Conditions during application
 - Air temperature
 - Surface temperature
 - Humidity
- Evaluations are performed by the State hosting the test deck or a contracted research partner (i.e. college or university).
- The laboratory testing is done by a variety of State Transportation laboratories and in rare cases private laboratories.

KEY ASPECTS OF THE PROGRAM TYPICAL TEST DECK LAYOUT



WISCONSIN 2017 OVERVIEW

- Location was I-43 Southbound (Walworth & Rock County)
- Install completed on June 2017
- Final Data Collected in September of 2020
- Temporary Tape
 - 4 products
- Permanent Markings
 - Total of 145 permanent products
 - 69 Waterborne Paint Products
 - 14 Epoxy Paint Products
 - 14 Extruded Thermoplastic Products
 - 18 Preformed Thermoplastic Products
 - 10 Permanent Tape Products
 - 10 Polyurea Products
 - 4 MMA Products
 - 6 Experimental Products







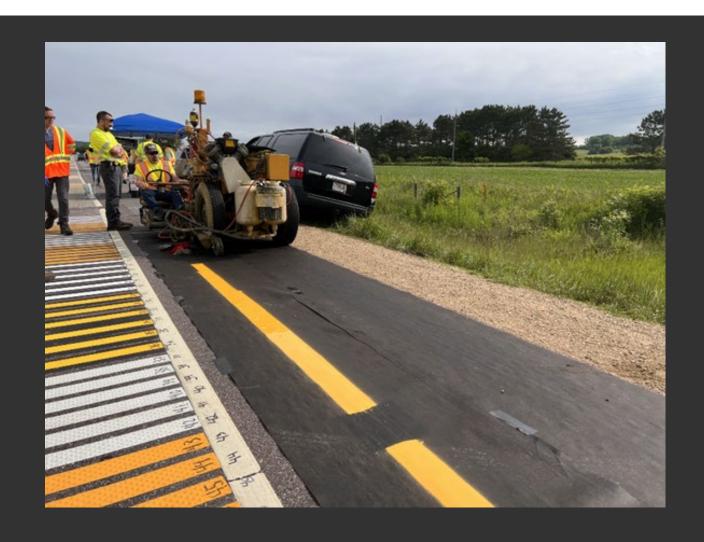


2022 LOCATION

- US 12 (north of Sauk City)
 - Between County Road C to Waterbury Rood
 - Closet Residence is on US 12 HMA Section between 1/3 mile and 1/2 miles form US 12
 - All the structures on both concrete and asphalt are associated with what's left of Badger Ammunition plant or with USDA Dairy Forage Research.



- Install completed on June 23, 2022
- 5 Weeks Total
 - One Week Temporary Tapes
 - 12 Temporary Tapes
 - 4 Weeks Permanent Products
 - 118 total products
 - Waterborne/Solventborne: 38
 - Thermoplastic: 22
 - Preform Thermoplastic: 17
 - Permanent Tape: 15
 - Epoxy: 18
 - Polyurea: 4
 - MMA: 4































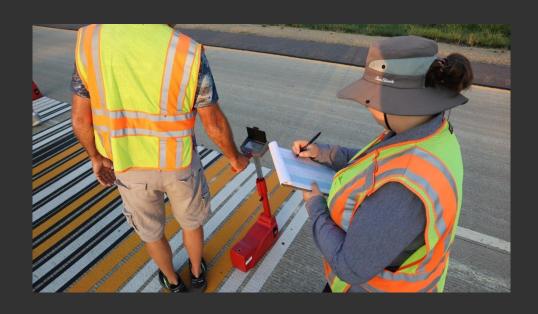




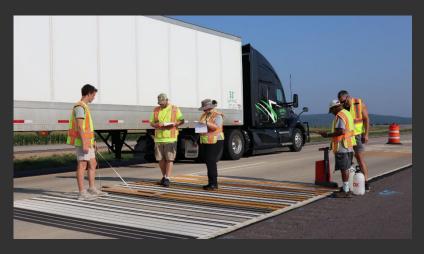


WISCONSIN 2022 ON-GOING

Data Collection is on-going until 2025.







QUESTIONS?

Linette Rizos

- WisDOT BTO Signing,
 Marking and Work Zone
 Materials Engineer
- Evaluation & Audit
 Solutions PMM Technical
 Committee Chair





