

Accepted Retroreflective Sheeting Material

RDN 06-11
Version 2.0

Purpose:	This road design note provides a list of Department of Transport and Planning (DTP) accepted retroreflective sheeting materials and contact details for suppliers.
Scope:	All retroreflective road signs used on the declared road network shall comprise of a sheeting material specified in this note. Material selection shall be in accordance with relevant specifications, standards, drawings or other relevant documents/agreements.
Applicability:	This document applies to the declared road network.

Note 1

Retroreflective sheeting materials shall conform to all of the relevant requirements of AS/NZS 1906.1:2017 for the class and colour of the sheeting specified.

Note 2

Products marked with a * have been interim accepted. Full acceptance is pending the weathering test results meeting the requirements of AS/NZS 1906.1:2017.

Note 3

For details of sheeting materials, refer to specifications from the relevant sign sheeting supplier.

References

1. DTP Standard Section 860 – Manufacture of Road Signs
2. Australian Standard AS/NZS 1906.1 – Retroreflective materials and devices for road traffic control purposes – Retroreflective sheeting
3. DTP Supplement to AS/NZS 1906.1

Approved by



David Barton
Chief Engineer – Roads

Accepted Product Suppliers

3M AUSTRALIA PTY LTD
Pymble, NSW
T (02) 9498 9364
E kkaragiannopoulos@mmm.com
W solutions.3m.com.au

AVERY DENNISON MATERIALS PTY LTD
Oakleigh South, VIC
T 0439 993 800
E james.williams@ap.averydennison.com
W reflectives.averydennison.com

ORAFOL AUSTRALIA PTY LTD
Darra, QLD
T (07) 3376 6511
E austsales@orafol.com
W orafol.com

SAKAI AUSTRALIA PTY LTD
Penrith, NSW
T (02) 4721 8011
E wayne@sakai.com.au
W sakai.com.au

Accepted Retroreflective Sheeting Materials					
Colour	Class	3M Australia	Avery Dennison	Orafol Australia	Sakai Australia
White	1100	4090* 4090UDS*	T-11500	9910-010*	
	400	3930* 3930UDS*	T-6500	5910-010*	RS-7000 with EC-1000 (overlay)*
	400T	3830*	W-6500	5960-010* 5930-010* 2018 Series roll up 5946 Series roll up	
	100	3290* 7610*	T-1500		2613*
Yellow	1100	4090 with 1170C (overlay) using Digital Durst 8800UV (ink)* 4090DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 4090UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 4090UDS with 1160i ECF (overlay) using Digital Durst 8900UV (ink)* 4091UDS*	T-11501 T-11500 with OL-2001 (overlay) T-11500 with OL-2000 (overlay) or OL-1000 (anti- graffiti overlay) using TrafficJet (ink) T-11500 using Screen Print 4930 Series (ink)	9910-020* 9910-010 with 5061 / 5095 (overlay) using Anapurna 5019i-020 (ink)*	
	400	3931* 3930 with 1170C (overlay) using Digital Durst 8800UV (ink)* 3930DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 3930UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 3930UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-6501 T-6500 with OL-2001 (overlay) T-6500 with OL-2000 (overlay) or OL-1000 (anti- graffiti overlay) using TrafficJet (ink) T-6500 using Screen Print 4930 Series (ink)	5910-020* 5910-010 with 5061-020 (overlay)* 5910-010 with 5061 (overlay) using OKI 5017- 020 (ink)* or Anapurna 5019-020 (ink)	RS-7001 RS-7000 with EC-1001 (overlay)*
	400T	3831*	W-6501 W-6500 with OL-2001 (overlay) W-6500 with OL-2000 / OL-4000 (overlay) or OL- 1000 (anti-graffiti overlay) using TrafficJet (ink) T-6500 using Screen Print 4930 Series (ink)	5960-020* 5930-020* 2018 Series roll up 5946 Series roll up	
	100	3290 with 1170C (overlay) using Digital Durst 8800UV (ink)*	T-1501 T-1500 with OL-2001 (overlay) T-1500 with OL-2000 (overlay) or OL-1000 (anti- graffiti overlay) using TrafficJet (ink) T-1500 using Screen Print 7TS or 4930 Series (ink)		2643*

Accepted Retroreflective Sheeting Materials					
Colour	Class	3M Australia	Avery Dennison	Orafol Australia	Sakai Australia
Red	1100	4090 with 1172 (overlay)* 4090 with 1170C (overlay) using Digital Durst 8800UV (ink)* 4090DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 4090 with 1170C ECF (overlay) using Digital HP Latex (ink)* 4090UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 4090UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-11508 T-11500 with OL-2008 (overlay) T-11500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) T-6500 using Screen Print 4930 Series (ink)	9910-030* 9910-010 with 5061 / 5095 (overlay) using Anapurna 5019-030 (ink)*	
	400	3930 with 1172 (overlay)* 3930 with 1170C (overlay) using Digital Durst 8800UV (ink)* 3930DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 3930 with 1170C ECF (overlay) using Digital HP Latex (ink)* 3930UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 3930UDS with 1160i (overlay) using Digital Durst 8900UV (ink)* 3930 using Screen Print 882 (ink)* 3931 using Screen Print 882 (ink)*	T-6508 T-6500 with OL-2008 (overlay) T-6500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) T-6500 using Screen Print 4930 Series (ink)	5910-030* 5910-010 with 5061-030 (overlay)* 5910-010 with 5061 (overlay) using OKI 5017-030 (ink)* or Anapurna 5019-030 (ink)	RS-7000 with EC-1005 (overlay)*
	400T	3830 with 1170C (overlay) using Digital Durst 8800UV (ink)* 3830 using Screen Print 882 (ink)*	T-6508 W-6500 with OL-2008 (overlay) W-6500 with OL-2000 / OL-4000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) W-6500 using Screen Print 4930 Series (ink)	5810-030 2018 Series roll up	
	100	3290 using Screen Print 882 (ink)* 7610 using screen print Red 880 series ink* 7610 using screen print Red 990 series ink* 7610 with 1170C ECF (overlay) using Digital HP Latex (ink)* 7610 with 1170C ECF (overlay) using Digital Durst 8900UV (ink)*	T-1508 T-1500 with OL-2008 (overlay) T-1500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) T-1500 using Screen Print 7TS or 4930 Series (ink)		2663*

Accepted Retroreflective Sheeting Materials					
Colour	Class	3M Australia	Avery Dennison	Orafol Australia	Sakai Australia
Dark Green	1100	4090 with 1176 (overlay)* 4090 with 1170C (overlay) using Digital Durst 8800UV (ink)* 4090DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 4090 with 1170C ECF (overlay) using Digital HP Latex (ink)* 4090UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 4090UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-11500 with OL-2027 (overlay) T-11500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink)	9910-010 with 5061 / 5095 (overlay) using Anapurna 5019-625 (ink)*	
	400	3930 with 1176 (overlay)* 3930 with 1170C (overlay) using Digital Durst 8800UV (ink)* 3930 with 1170C ECF (overlay) using Digital HP Latex (ink)* 3930UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 3930UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-6500 with OL-2027 (overlay) T-6500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink)	5910-060* 5910-010 with 5061-060 (overlay)* 5910-010 with 5061-625 (overlay) 5910-010 with 5061 (overlay) using OKI 5017-625 (ink)* or Anapurna 5019-625 (ink)	
	400T		W-6500 with OL-2027 (overlay) W-6500 with OL-2000 / OL-4000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink)		
	100	3290 with 1170C (overlay) using Digital Durst 8800UV (ink)* 7610 with 1170C ECF (overlay) using Digital HP Latex (ink)* 7610 with 1170C ECF (overlay) using Digital Durst 8900UV (ink)*	T-1500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink)		

Accepted Retroreflective Sheeting Materials					
Colour	Class	3M Australia	Avery Dennison	Orafol Australia	Sakai Australia
Blue	1100	4090 with 1175 (overlay)* 4090 with 1170C (overlay) using Digital Durst 8800UV (ink)* 4090DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 4090 with 1170C ECF (overlay) using Digital HP Latex (ink)* 4090UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 4090UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-11505 T-11500 with OL-2005 (overlay) T-11500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) T-11500 using Screen Print 4930 Series (ink)	9910-050* 9910-010 with 5061 / 5095 (overlay) using Anapurna 5019-050 (ink)*	
	400	3930 with 1175 (overlay)* 3930 with 1170C (overlay) using Digital Durst 8800UV (ink)* 3930DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 3930 with 1170C ECF (overlay) using Digital HP Latex (ink)* 3930UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 3930UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-6505 T-6500 with OL-2005 (overlay) T-6500 with OL-2000 (overlay) using TrafficJet (ink) T-6500 using Screen Print 4930 Series (ink)	5910-050* 5910-010 with 5061-050 (overlay)* 5910-010 with 5061 (overlay) using OKI 5017-050 (ink)* or Anapurna 5019-050 (ink)	RS-7000 with EC-1003 (overlay)*
	400T		T-6505 W-6500 with OL-2005 (overlay) W-6500 with OL-2000 / OL-4000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) W-6500 using Screen Print 4930 Series (ink)	2018 Series roll up	
	100	3290 with 1170C (overlay) using Digital Durst 8800UV (ink)* 7610 with 1170C ECF (overlay) using Digital HP Latex (ink)* 7610 with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 7610 using screen print Blue 880 series ink* 7610 using screen print Blue 990 series ink*	T-1505 T-1500 with OL-2005 (overlay) T-1500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) W-1500 using Screen Print 7TS or 4930 Series (ink)		2683*

Accepted Retroreflective Sheeting Materials					
Colour	Class	3M Australia	Avery Dennison	Orafol Australia	Sakai Australia
Brown	1100	4090DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 4090 with 1170C ECF (overlay) using Digital HP Latex (ink)* 4090UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 4090UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-11509 T-11500 with OL-2009 (overlay) T-11500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) T-11500 using Screen Print 4930 Series (ink)	9910-080* 9910-010 with 5061 / 5095 (overlay) using Anapurna 5019-080 (ink)*	
	400	3930 with 1170C (overlay) using Digital Durst 8800UV (ink)* 3930DS with 1170C (overlay) using Digital Durst 8900UV (ink)* 3930 with 1170C ECF (overlay) using Digital HP Latex (ink)* 3930UDS with 1170C ECF (overlay) using Digital Durst 8900UV (ink)* 3930UDS with 1160i (overlay) using Digital Durst 8900UV (ink)*	T-6509 T-6500 with OL-2009 (overlay) T-6500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) T-6500 using Screen Print 4930 Series (ink)	5910-080* 5910-010 with 5061-080 (overlay)* 5910-010 with 5061 (overlay) using OKI 5017-080 (ink)* or Anapurna 5019-080 (ink)	
	400T		T-6509 W-6500 with OL-2009 (overlay) W-6500 with OL-2000 / OL-4000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) W-6500 using Screen Print 4930 Series (ink)		
	100		T-1509 T-1500 with OL-2009 (overlay) T-1500 with OL-2000 (overlay) or OL-1000 (anti-graffiti overlay) using TrafficJet (ink) T-1500 using Screen Print 7TS or 4930 Series (ink)		
Fluorescent Yellow-Green	1100	4083* 4083UDS*	T-11513	9910-029*	
	400		T-11513	5930-029*	
	400T		W-6513	5930-029	
Fluorescent Yellow	1100	4081* 4081DS * 4081UDS *	T-11511	9910-037*	
	400		T-11511	5930-037*	
	400T		W-6511	5930-037	

Accepted Retroreflective Sheeting Materials					
Colour	Class	3M Australia	Avery Dennison	Orafol Australia	Sakai Australia
Fluorescent Orange	1100	4084*	W-11514	9910-038*	
	1100T	4084UDS*			
	400				
	400T	3824*	W-6514	5960-038*	
				5930-038* 2056 Marathon Series roll up 5946 Series roll up	

Revision History

Version	Date	Clause	Description of Change
1.0	March 2021	All	First version
2.0	November 2023	All	RDN template style updated Added 3M products

Contact Details

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