

**3M Traffic Safety Division**  
**Heavy Vehicle Safety Solutions**



**Keeping your  
fleet safer**

**with 3M™ Diamond Grade™  
Reflective Technology**

- Delivers outstanding vehicle visibility, alerting more road users faster and earlier
- Helps prevent accidents, death and serious injury
- Prevent vehicle downtime
- Passive reflector so offers visibility to other drivers at all times

**3M**

# Best Practise Markings

Full-contour and partial contour vehicle markings are recommended in Australia under the ATA Industry Technical Advisory Procedure for Heavy Vehicle Visibility. For your free copy of the ATA Code please contact 3M TSSD on 136 136.

To be compliant to Australian Design Rule 13/00, 2005 (Appendix A – UNECE R48/03) the tapes must have performance, colours and dimensions compliant with UN/ECE104. Therefore tapes are available as standard in 50-55mm widths.

Contour markings should cover at least 80% of the total length and width of the vehicle / trailer and should be as close as possible to the edges. Full contour markings are the preferred layout.

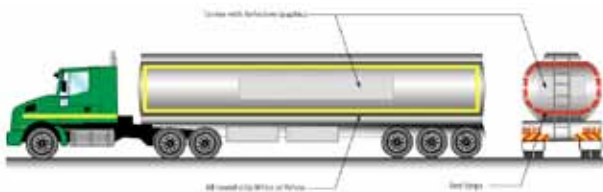
## Full Contour Markings



## Partial Contour Markings



## Tanker strip markings



## Dog and Trailer strip markings



Location on vehicle	Colour(s) permitted
Front	White
Sides	Yellow, white or fluorescent yellow
Rear	Red or Yellow

# Material Recommendations

Full range of high performance retroreflective tapes.



	<b>983</b>	
Use	Continuous rigid tape for flat, rigid surfaces	 <b>Red</b>
Surfaces	Aluminium, stainless steel, automotive paint	 <b>White</b>
Colours	White, red, yellow, fluoro yellow	 <b>Yellow</b>
Size	50mm x 45.7m, 50mm x 15m	 <b>Fluorescent Yellow</b>
Warranty period	7 years	 <b>Fluorescent Yellow-Green</b>



	<b>997</b>	<b>997S</b>
Use	Continuous flexible tape, suitable for flexible and contoured surfaces	Segmented flexible tape, suitable for flexible and contoured surfaces
Surfaces	Aluminium, stainless steel, truck canvas	Aluminium, stainless steel, truck canvas
Colours	White, red, yellow	White, red, yellow
Size	52mm x 45.7m, 52mm x 15m	52mm x 45.7m
Warranty period	3 years	3 years

# Application Instructions

**Tools:** Surface cleaner, cloth, squeegee with sleeve, cutting blade, rule and marker pen.



**1.** Ensure air and surface temperature is 18-30°C. Surface must be rust and dirt free. Clean with IPA surface solution.



**2.** Mark guideline on surface.



**3.** Remove liner and align tape to guideline. Small adjustments possible at this stage.



**4.** Use squeegee and sleeve to apply pressure to activate adhesive. Overlap strokes so whole area firmly stuck. Cut between joints to allow movement.



**For full instructions and an application video, scan the code or visit [www.3mreflective.com.au](http://www.3mreflective.com.au)**

# Powerful 3M Protection Against Collisions

## The FACTS!

The risk of an accident between a truck and a car is 30 times greater when a truck does not have high visibility vehicle markings<sup>1</sup>.

A truck with outline reflective markings is recognised earlier than an unmarked truck because they help to define the total size of the truck to other road users. This gives other drivers more time to manoeuvre safely in traffic<sup>2</sup>.

The average financial loss per truck incident costs fleet owners over \$118,000<sup>3</sup> – in vehicle damage and repair costs alone.

## Potential results with improved truck visibility



**41%**

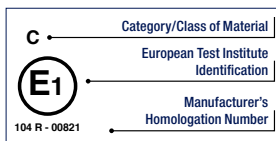
Rear outline visibility markings can reduce rear end collisions by up to 41%



**37%**

Side outline visibility markings can reduce side collisions by up to 37%

All 3M vehicle marking tapes have been independently tested and certificates of compliance to both ECE104 and AS/NZS 1906.1 Class 1A can be provided on request.



1. Prof. Dr. -Ing. H.-J. Schmidt-Clausen, Laboratory of Lighting Technology, Darmstadt University of Technology: Contour Marking of Vehicles, Final Report FO 76/00
2. LBI Unfallsforschung Austria: Viewing Behaviour Survey / 2001
3. Owen P.Driscoll – Major Accident Investigation Report 2013 – National Centre for Truck Accident Research

## **3M Diamond Grade Reflective Markings deliver...**

- Drastically reduced chance of an accident when a vehicle is marked (30 times)
- Meet requirements set out in:
  - Australian Design Rule 13/00, 2005 (appendix A – UNECE R48/03)
  - ATA Industry Technical Council Advisory Procedure for Heavy Vehicles Visibility
- Less vehicle downtime and decreased repair costs
- Protect your company against potential legal action related to third person safety
- Improve corporate image through following best practice safety guidelines.



# **3M**

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