

# Safety in Traffic



**GRAFEX-trade Ltd. is the company for production and services with their own production line, and has been developing since the day it was established in 1978.**

**The dominant group of products with which we achieved top European and world standards, are vehicles identification products from the traffic safety system.**

**The only Croatian producer of homologated products according to the regulations: ECE R 70.00, ECE R 70.01, ECE R 69, ECE R 104.**

**Special group of products are products for promotion of your company.**

**GRAFEX-trade**

Products of GRAFEX-trade Ltd. Zagreb in cooperation with 3M

**3M**

# Safety in traffic is the concern of each individual and the community in whole.

One of the essential elements of safety is good marking and with this the noticeability of vehicles in traffic.

## Which vehicles should have dimension plates?

**Heavy vehicles** - are motor vehicles with the maximum permitted mass exceeding 12.000 kg (except towing vehicles).

**Long vehicles** - are full trailers with the maximum permitted mass exceeding 10.000 kg, or those vehicles regardless of the maximum permitted mass (including towing fork) with the length exceeding 8 m.

**Slow vehicles** - are vehicles which speed, according to their construction, does not exceed 30 km/h (tractors and their trailers, combines, communal vehicles etc.).

## What is homologation?

Homologation is the quality control process according to the strict European standards.

## Each proper plate has:

- producer's declaration
- declaration of Homologation Regulations
- instruction for the right plate installation (if necessary)
- identification and number of homologation

Dimension plates, produced by us, have original quality guarantee certified by the 3M company.

**ALL VEHICLES FROM THE GROUP OF HEAVY, LONG AND SLOW VEHICLES SHOULD HAVE EXCLUSIVELY LAID DOWN HOMOLOGATED DIMENSION PLATES FOR THE PURPOSE OF INCREASED NOTICEABILITY IN TRAFFIC.**



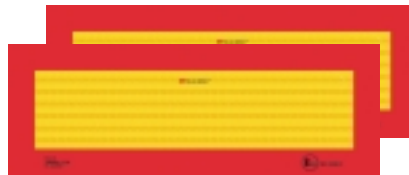
Dimension plate for heavy vehicles, vertical  
ECE R 70.01



Dimension plate for heavy vehicles, horizontal  
ECE R 70.01



Dimension plate for heavy vehicles  
ECE R 70.00



Dimension plate for long vehicles, horizontal  
ECE R 70.01



Dimension plate for long vehicles  
ECE R 70.00



Dimension plate for long vehicles, vertical  
ECE R 70.01



Plates and labels indicating flammable freight - reflective



Dimension plate for slow vehicles  
ECE R 69.00



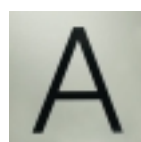
Plates indicating dangerous loads - reflective



Plates of long freight - reflective



Plates of various dangers in transportation



Plates and labels from recycled material - reflective



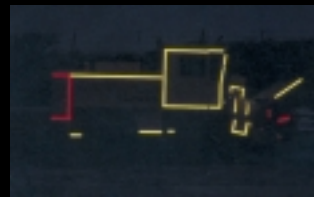
Military vehicle plates - NATO standard

Examples show the use of contour markers ► on trucks and their trailers, tank trucks, busses, fire trucks and police cars, as well as on various working vehicles.

## RETROREFLEX BANDS FOR BORDER MARKING AND DIFFERENTIATING IDENTIFICATION OF VEHICLES AND THEIR TRAILERS (CONTOUR MARKING)

On the basis of European statistical data on traffic accidents, it was noticed that long and heavy vehicles and their trailers, slow vehicles (tractors, combines, communal vehicles...), busses and other motor vehicles are very dangerous participants in traffic.

The international community has therefore been intensively working on the development of new safety contour marking systems (to increase traffic safety), in addition to already existing safety increase noticeability of vehicles in traffic.



Example of visibility under various conditions:

1. how could vehicle be seen by day
2. how could vehicle be seen by night WITHOUT contour marking
3. how could vehicle be seen by night WITH contour marking.

After a long lasting study, the German Federal Ministry of Transport established, that with contour markers on vehicles, the number of car crashes decreases.

A - from the rear side 41%

B - from the side 37%



## Country identifications and speed limit labels



## Special group of products PROMOTION

We are producing social games, promotion material, bags, mouse pads, glass pads and food pads, post cubes.....



It is important to emphasize that all products from our production line are properly declared and identified according to the Standardization Law (National Gazette 96/03 of July 10, 2003, Art. 17. and 18.)

All our products are marked with the EAN code owned by the GRAFEX-trade to which the EAN code was assigned from the EAN International/UCC. Homologated products have additional quality guarantee of the 3M company.

# GRAFEX-trade

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