

SECTION J**Appendices**

CONTENTS	
1 GLOSSARY	246
2 LIST OF RELEVANT STANDARDS	250
3 LIST OF RELEVANT PUBLICATIONS	251
4 COMMONWEALTH, STATE AND TERRITORY TRANSPORT REGULATORY AUTHORITIES	253
5 COMPETENT AUTHORITIES FOR ROAD TRANSPORT OF DANGEROUS GOODS	254

Section J - Appendices

1 GLOSSARY

air bag	An inflatable barrier placed between a section of the load and the vehicle to stop any movement of the load. It can be disposable or reusable.
aggregate trailer mass	The total mass of a trailer carrying the maximum load as specified by the trailer manufacturer (also called ATM). It includes the mass on the drawbar as well as the mass on the axles.
anchor point	Fitting or attachment on a vehicle or load to secure lashings.
baffles	Barriers fitted crosswise and lengthwise inside tanks to limit surging of fluids (or loads which behave like fluids) during acceleration, braking and cornering.
baulking	see blocking
billet	A solid length of raw material normally steel, bronze or aluminium.
bolster	Rigid support base commonly used to support logs on jinkers.
blocking	Material, usually timber, placed between the load and the vehicle structure, to prevent movement of the load (also see dunnage .)
cap tarp	A smaller tarpaulin fitted over the top of a load and only part of the sides.
centre of mass	The centre of balance of a load (also called 'centre of gravity').
centroid	The centre point of the cross-section of the tank.
cheater bar	Usually a length of pipe placed over the operating lever of a dog so as to extend its length. (The use of these extensions is not approved by any manufacturer and can be dangerous).
chocks	Usually wedge shaped blocks used to prevent movement of the load (also see wedges).
claw hook	A chain hook in the shape of a claw.
coaming	A frame border around the outside of a vehicle's loading deck.

contained load	A load prevented from dislodging from the vehicle by the vehicle structure, gates, sides, racks, headboards, stanchions etc.) or other parts of the load.
corner protectors	Material used to protect lashings and the exposed edges of loads and vehicles, and to allow lashings to slide freely when being tensioned.
cradle	A frame shaped to support a rounded object.
cribbing	A method of supporting a load on a stable column of packing of uniform thickness, stacked in pairs, with alternate layers at 90 degrees to one another.
cross-member	A support placed crosswise below the loading deck.
deck	The load carrying surface of a vehicle.
dog	A chain tensioner incorporating an over-centre locking action with a fixed or pivoting lever.
dunnage	Packing placed either between items of a load or between the base of a load and the surface of the vehicle's loading deck (also see blocking). (The word 'dunnage' is derived from the era of sailing ships where wood packing was used to raise the cargo above the bilge water in the hold.)
flush deck	A flat loading deck without a raised coaming .
gates	Permanent or removable vertical frames used at the front, sides and rear of a vehicle's loading deck to contain its load. The front gate is usually called a loading rack or load rack.
gluts	see dunnage .
Gross Combination Mass	The value specified by the manufacturer of a vehicle as being the sum of its gross vehicle mass plus the maximum loaded mass of any trailer (or motor vehicle) that it can tow in combination (also called GCM).
Gross Trailer Mass	The mass on the axle(s) of a trailer when fully loaded (also called GTM).
Gross Vehicle Mass	The maximum mass of a motor vehicle when loaded, as specified by its manufacturer (also called GVM).
headboard	Usually a permanent vertical frame used at the front of a vehicle's loading deck to contain its load (also known as a bulkhead).

Section J - Appendices

hungry board	A rail or framework (permanent or removable) added to the sides of a truck body to increase load capacity.
lashings	Fastening devices, chains, cables, ropes or webbing used to restrain loads.
lashing capacity (LC)	The maximum force (in kilograms) that a lashing system is designed to sustain in use.
load binder	A device used for tensioning a lashing. (see truck winch or dog).
load capacity	The difference between the GVM or GTM of a vehicle and its tare mass .
load mat	A sheet of material used to increase friction and protect the load (also called anti-slip mat or friction mat).
loading rack	see gates .
pallet	A portable platform or tray onto which loads are placed for mechanical handling.
pantechnicon	A vehicle with a body enclosed by solid rigid sides and roof.
pawl	A lever or lock which prevents reverse rotation on a winch.
pockets	Housings or slots fixed to the vehicle to locate gates, stakes or loading pegs.
pre-tension	The initial tension in a lashing after tensioning.
rope single hitch	Refer Figure C.27
rope double hitch	Refer Figure C.27
rope hooks	Attachments fixed to the surrounds of the loading deck for securing of tarpaulin and tie-down ropes.
rope rail	see tie rail
shackle	A metal coupling link closed by a bolt which can be used for attaching chain fittings.
shoring bar	Adjustable metal beam used to restrain or segregate sections of load (also known as a shoring pole).
sling	A length of hemp-core rope, webbing or steel-wire rope with eyes formed at each end.

Section J - Appendices

spreader	A transverse spar or frame used to support tarpaulins and side gates.
stake	An upright metal rod or section (also called a peg or pin).
stanchion	A large upright fixed to the side of a vehicle for sideways restraint.
stillage	A metal structure for containing individual items of load.
strut	A rigid member which can support loads in the direction of its length.
tare mass	The unladen mass of a motor vehicle or trailer.
tarpaulin (tarp)	A waterproof sheet used to cover and protect goods from the weather.
tensioner	A device used to tighten a lashing (winch, dog , hand ratchet etc).
tie down	Tie down is when the load is prevented from moving by friction only.
tie rail	A round rail which skirts the perimeter of the loading deck below the coaming rail.
truck winch	A device used for tensioning a lashing which is normally placed under the coaming rail and may be fixed in position using the tie-rail or slide on a track (also see winch).
turnbuckle	A tensioner consisting of a threaded sleeve and two mating threaded ends.
twist lock	A locking device with a rotating head which normally engages a corner casting on the load.
wedge	A piece of rigid material, thick at one end and tapering to a thinner edge at the other (also see chocks).
winch	A device for tensioning lashings via a rotating spool.

Section J - Appendices

2 LIST OF RELEVANT STANDARDS

A list of all standards applicable to the transport of dangerous goods can be found in the *Australian Code for the Transport of Dangerous Goods (Road and Rail)*.

Information on how to obtain the current versions of the following standards may be available from:

**National Sales Centre
STANDARDS AUSTRALIA** www.standards.com.au
GPO Box 5420
Sydney NSW 2001

Phone (from anywhere in Australia): **1300 654 646**

Fax (from anywhere in Australia): 1300 654 949

or from the nearest office of Standards Australia

Cargo Restraint Systems - Motor vehicles - Cargo Restraint Systems - Transport Chain and Components	AS/NZS 4344
- Motor vehicles - Cargo Restraint Systems - Transport Webbing and Components	AS/NZS 4380
- Motor vehicles - Cargo Restraint Systems - Transport Fibre Rope	AS/NZS 4345
Motor Vehicles - Motor vehicles - Anchorages and anchor points for securing internal cargo	AS/NZS 4384
Fibre Ropes	AS 4142 (Parts 1 & 2)
Short-link Chain for Lifting Purposes	AS 2321
Steel Wire Ropes	AS 3569
Shackles	AS 2741
Shank Hooks and Large-eye Hooks - Maximum 25t	AS 3777
Thimbles for Wire Rope	AS 1138
Packaging - Tensional Strapping	AS 2400.13
Load Anchorage Points for Heavy Vehicles	NZS 5444
Pressure Vessels	AS 1210
Storage & Handling of LP Gas	AS/NZS 1596
Anhydrous Ammonia - Storage and Handling	AS 2022
Road Tank Vehicles for Dangerous Goods - General Requirements	AS 2809 (Parts 1-6)
Freight Containers	AS/NZS 3711 (Parts 1-9)
Load Restraint Guide	

Motor Vehicles - Cargo Barriers for Occupant Protection	AS/NZS 4034 (Parts 1 & 2)
Lashing and Securing Arrangements on Road Vehicles for Sea Transportation on Ro/Ro Ships	ISO 9367 (Parts 1 & 2)
Securing of Cargo on Road Vehicles, Lashing Points on Commercial Vehicles for Transportation, Minimum Requirements and Testing	DIN EN 12640-2001

AS	is Australian Standard
NZS	is New Zealand Standard
ISO	is International Organisation for Standardisation
DIN	is German Institute for Standardisation

3 LIST OF RELEVANT LEGISLATION AND PUBLICATIONS

Information on the availability and contact details for the following national model legislation/publications or their updates may be obtained from the NTC website: www.ntc.gov.au However, please check local State and Territory laws when establishing legal obligations as jurisdictions may have varied the national laws when implementing them.

Australian Code for the Transport of Dangerous Goods by Road and Rail
Australian Code for the Transport of Explosives by Road and Rail

These Codes are available from:

Canprint Information Services
PO Box 7456
CANBERRA MC ACT 2610
Tel: 1300 889 873
Fax: (02) 6293 8333

Road Transport Reform (Vehicles and Traffic) Act 1993
Road Transport Reform (Mass and Loading) Regulations 1995
Road Transport Reform (Oversize and Overmass Vehicles) Regulations 1995
Australian Vehicle Standards Rules 1999
The Australian Truck Drivers Manual

Section J - Appendices

Other publications might be available from State and Territory vehicle registration/regulatory authorities, trucking, motoring and industry associations such as:

A Guide to Restraining Steel: VicRoads December 1998

A Guide to Restraining Concrete Panels: VicRoads August 1999

A Guide to Restraining Rolls and Reels: VicRoads August 1999

A Guide to Restraining Bales: VicRoads September 1999

A Guide to Restraining Loads on Light Vehicles: VicRoads November 1999

A Guide to Restraining Concrete Pipes: VicRoads January 2000

A Guide to Restraining Logs and Timber: VicRoads November 2003

Cotton Restraint Guide 1999: Cotton Australia

Tel. (02) 9360 8500

Website: www.cottonaustralia.com.au

A Guide to Dogging 1994, Catalogue No 2: WorkCover NSW

Safety in Forest Harvesting Operations Code of Practice 2002,

Catalogue No 1005: WorkCover NSW

Tel: 1300 799 003

National Code of Practice, Heavy Vehicle Modifications, Vehicle Standards

Bulletin No 6: Commonwealth Department of Transport and Regional Services

Tel: (02) 6274 7111

4 COMMONWEALTH, STATE AND TERRITORY TRANSPORT REGULATORY AUTHORITIES

Commonwealth or National bodies:

Commonwealth Department of
Transport and Regional Services
Transport Regulation Division
GPO Box 594
CANBERRA ACT 2601
Tel: (02) 6274 7111 Fax: (02) 6274 7922
Website: www.dotars.gov.au

National Transport Commission
Level 15, 628 Bourke Street
MELBOURNE VIC 3000 AUSTRALIA
Tel: (03) 9236 5000 Fax: (03) 9642 8922
Email: ntc@ntc.gov.au
Website: www.ntc.gov.au

State & Territory bodies:

New South Wales:

NSW Roads and Traffic Authority
PO Box K198
HAYMARKET NSW 1238
Tel: 1300 137 302 Fax: (02) 9843 3821
Email: tech-enq@rta.nsw.gov.au
Website: www.rta.nsw.gov.au

Australian Capital Territory:

Department of Urban Services
Road User Services
Vehicle Inspection & Technical Unit
PO Box 582, Dickson ACT 2062
Tel: (02) 6207 7236 Fax: (02) 6207 6561
Website: www.act.gov.au

Queensland:

Queensland Transport
PO Box 673
FORTITUDE VALLEY QLD 4006
Tel: (07) 3253 4452 Fax: (07) 3253 4607
Email: fred.w.guillessen@transport.qld.gov.au
Website: www.transport.qld.gov.au

Victoria:

VicRoads
60 Denmark St
KEW VIC 3105
Tel: (03) 9854 2666 Fax: (03) 9853 0390
Website: www.vicroads.vic.gov.au

South Australia:

Transport SA
PO Box 1
WALKERVILLE SA 5081
Tel: 1300 656 243
Email: enquiries@transport.sa.gov.au
Website: www.transport.sa.gov.au

Northern Territory:

Department of Infrastructure, Planning &
Environment
Vehicle Compliance
GPO Box 530
DARWIN NT 0801
Tel: (08) 8999 3163 Fax: (08) 8999 3101
Website: www.nt.gov.au/ipe/dtw/

Western Australia:

Department for Planning & Infrastructure
Vehicle Safety
21 Murray Road, South
WELSHPOOL WA 6106
Tel: (08) 9216 8000 Fax: (08) 9351 1699
Website: www.dpi.wa.gov.au

Tasmania:

Department of Infrastructure, Energy & Resources
Inquiry Service
GPO Box 1002K
Hobart TAS 7001
Tel: (03) 6233 5201 Fax: (03) 6233 5210
Website: www.transport.tas.gov.au

Section J - Appendices

5 COMPETENT AUTHORITIES FOR ROAD TRANSPORT OF DANGEROUS GOODS

Information on the transport of Dangerous Goods and details of the Competent Authorities can be obtained from the website: http://www.dotrs.gov.au/transreg/str_dgoodsum.htm

State & Territory bodies:

New South Wales:

(Labelling & Classification)
State Coordinator
Compliance Coordination Team
WorkCover NSW
Level 3, 92-100 Donnison Street
GOSFORD NSW 2250
Tel: (02) 4321 5191 Fax: (02) 4325 4736

(All other matters)
Manager, Dangerous Goods
Department of Environment and Conservation
59-61 Goulburn Street
Sydney NSW 2000
Tel: (02) 9995 5412 Fax: (02) 9995 5918

Queensland:

Director-General
Queensland Transport
Dangerous Goods Unit
PO Box 673
FORTITUDE VALLEY QLD 4006
Tel: (07) 3253 4035 Fax: (07) 3253 4453

South Australia:

Manager, Dangerous Goods Workplace Services
Department of Administrative and Information
Services
GPO Box 465
ADELAIDE SA 5001
Tel: (08) 8303 0435 Fax: (08) 8303 0444

Western Australia:

Chief Inspector Dangerous Goods Safety
Department of Industry and Resources
100 Plain Street
EAST PERTH WA 6004
Tel: (08) 9222 3595 Fax: (08) 9325 2280

Australian Capital Territory:

Chief Inspector of Dangerous Goods
Dangerous Goods Unit
ACT WorkCover
PO Box 224
CIVIC SQUARE ACT 2608
Tel: (02) 6207 6355 Fax: (02) 6207 7249

Victoria:

The Manager, Dangerous Goods Unit
Victorian WorkCover Authority
Level 22, 222 Exhibition Street
MELBOURNE VIC 3000
Tel: (03) 9641 1551 Fax: (03) 9641 1552

Northern Territory:

Chief Inspector of Dangerous Goods
Department of Management and Business
PO Box 4160
DARWIN NT 0801
Tel: (08) 8999 5010 Fax: (08) 8999 5141

Tasmania:

The Delegate of the Competent Authority
Department of Infrastructure, Energy and
Resources
Workplace Standards Tasmania
PO Box 56
ROSNY PARK TASMANIA 7018
Tel: local calls 1300 366 322
Tel: Interstate calls (03) 6233 7657
Fax: (03) 6233 8338



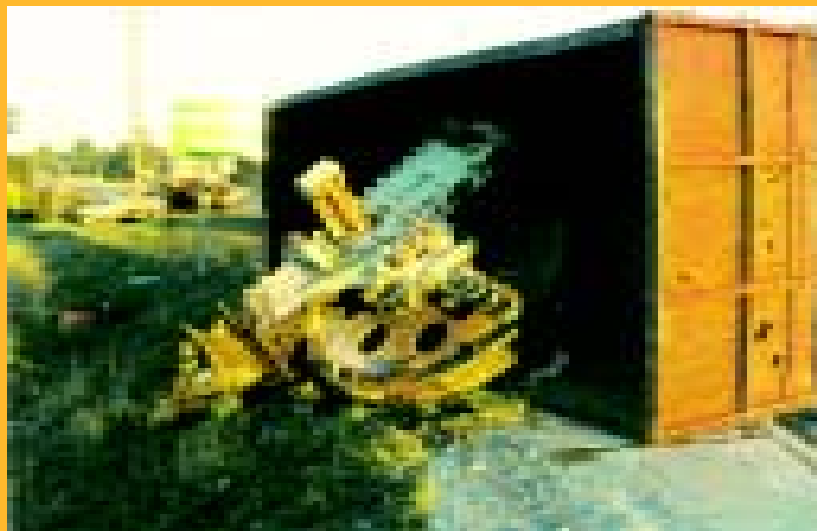
(See below).



Concrete panels moved forward under braking in city traffic killing the driver.
A \$160,000 fine was awarded against the company that owned the truck.



This load of watermelons would have been better restrained by containing it, rather than trying to tie it down.



Skips and bins must be restrained on the vehicle. Care must be taken when carrying high centre of mass loads to avoid roll-over.