

This booklet lists the numerous Victorian rail freight vehicles that are designed to carry a wide range of goods safely and efficiently in the interests of customers.

For easy reference a commodity guide to classes of vehicles and a vehicle index are included. Also the vehicles are grouped into two sections, broad gauge and bogie exchange.

Vehicles are listed with information about their use, capacity and measurements, and typical vehicles in each section are illustrated. Also shown are rail-road containers used in the Rail Pak system of freighting. This is followed by advice on good packaging, and loading diagrams.

Your Railways welcome any inquiries about freighting by rail, and will gladly assist customers to gain the most economical use of rail vehicles and facilities.
You can also obtain information about rail vehicles, from other States, that operate on Victorian lines. Simply write to the Chief Commercial Manager, Railways Administrative Offices, Spencer Street, Melbourne, or 'phone 62 0311, extension 2095.

## VEHICLE INDEX

						•27	
CLASS	Page	CLASS	Page	CLASS	Page	CLASS	Page
ALX	16, 18	IA	4	MLX	16	RY	4
AX	16	IC	10	мм	12	S	5
В	8	IT	10	MS	12	SBX	16
ВА	8	IY	4	NN	14	sc	16, 17
BLX	15, 18	IZ	4	0	14	SFX	15
BMF	15	J	10	ос	14	Т	9
вмх	15	١x	16, 17	ON	14	TP	9
ВР	8	К	5	от	13	TVX	16, 17
C1 .	10	КАВ	10	P	13, 14	TW	13
E	4	кс	10	a	5, 6	TWF	13
EF	4, 5	ксс	10	QAB	10, 11	TWX	16
ELX	15, 18	кмс	10	QB	6	U	7
ESX	16, 17	KS	10	<b>QCX</b>	16, 17	UB	7
EX	15	кт	10	QF	5	UF	7
FJ	10, 11	L	12	ан	5	V	7
FVF	16	LF	12	QN	14	VF	15, 16
GIX	10, 11	LL	12	QR	4	VHX .	15, 18
GY	4, 5	LP	12	QS	6	VLX	15, 16
HY	4	м	12	<b>ew</b>	6, 7	VP	15
1	4	MF	12	QWF	6		
	l l	ı	J. II				

(See page 19 for commodity guide to class of vehicle)

# BROAD GAUGE

Vehicles in this section are used on 5' 3" gauge lines of the Victorian Railways and on South Australian connecting lines of the same gauge. These vehicles allow a direct Melbourne-Adelaide freight service.

#### **OPEN WAGONS**

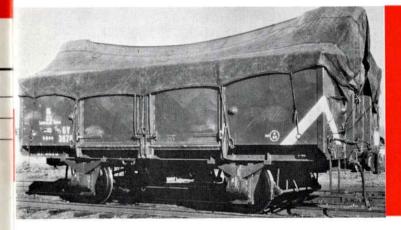
CLACC AND LICE	CAPACITY	INTE	RNAL	DOOR OPENING				
CLASS AND USE		1	width	boight	cubic feet to water	No. per	maxii	mum
	tons	length	Width	height	level	side	height	widt
4-WHEEL								
General goods					779			
I or IA	16 <u>1</u>	22′ 0″	8′ 6″	3′ 8″	687	1	3′ 8″	10′ 0
I or IA (high side)	161 22	17' 11출" 22' 0"	8′ 6″ 8′ 6″	4′ 6″ 3′ 8″	687 687	1	4′ 6″ 3′ 8″	6′0
IY HY	16½-22 16½-22	22' 0"	9' 0"	4' 61"	891	i	4' 61"	10′ 3
IZ	161-27	22′ 01″	9' 0"	4' 14"	817 817	1	4' 11"	10′ 3
RY	162-22	22′ 01/8″	9 0	4' 11''	017	1	4′ 1½″	10 3
Bulk wheat								
GY	16 <del>1</del> –22	22′ 0″	9′ 0″	4′ 6″	891	1	4′ 6″	10′0
BOGIE								
Long & special loading								
E or EF	44	42'   1   \$"	8′ 8″	4' 6"	1675	2	4′ 6″	10′ 1
QR (two types)	31 31	34' 8½" 39' 8½"	8' 0½" 8' 1½"	2' 11"	814 942		hole sid	e dro

QR open wagon. Three dropdown doors on both sides, and removable door stanchions. Tarpaulin protection.





EF open wagon. Two sets of double-hinged doors on both sides, with removable door stanchions. Tarpaulin protection.

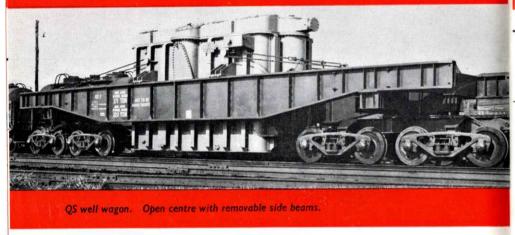


GY open wagon.
Double-hinged
doors on both
sides, with
removable
door
stanchions.
Tarpaulin
protection.

#### **FLAT WAGONS**

CLASS AND USE	CAPACITY	EXTERNAL MEASUREMENT					
CLASS AND USE	tons	length	width				
4-WHEEL							
Machinery, and safety wagons for long loading on other vehicles							
K (steel floor)	16	18′ 0″	8′ 6″				
K (wooden floor)	20	25′ 7″	8′ 6¼″				
BOGIE Long and special loading							
Q (wooden floor)	31 concentrated	42′ 0″	9′ 0″				
Q and QF (steel floor)	31 distributed	50′ 0″	9′ 0*				
QH (two types)	90 distributed	37′ 0″	9′ 6″				
	50 concentrated 90 distributed 50 concentrated	37′ 0″	10′ 0″				
S	44 distributed	43′ 0″	8′ 11″				





## WELL WAGONS (BOGIE)

	CAPACITY	MEASU	REMENTS
CLASS AND USE	tons	load length	width
Long and special loading			
QB (two types)	31 distributed 14 central	52′ 18′ 0″ well	9′ 0″ 3′ 9″ well
	31 concentrated	42′ 0″ 20′ 0″ well	9′ 0″ 9′ 0″ well
QWF	60 concentrated	15′   1″ 15′   1″ well	8′ 6″ 4′ 0″ well
QW	150 distributed over 20'	26′ 0″ 26′ 0″ well	8′ 7″ 8′ 7″ well
Stators or transformers			
QS (open centre, fixed	120	*	9′ 7″ 9′ 7″ well
side beams)	* max. load length 19' 0" o	or 12' 0" according	to location
QS (open centre, removable side beams)	120 when fitted with 50-to 171 when fitted with four 6 max. load length 25' 0"		9′ 7″ 9′ 7″ well



## LOUVRE VANS

61 166 11D 1165	CAPACITY	INT	ERNAL	MEASUREMEN	TS	DOOR OPENING					
CLASS AND USE						No.	maxir	num			
	tons	length	width	height	cubic feet	per side	height	width			
4-WHEEL											
General goods and perishable traffic											
U (four types)	<del>  1</del>	17′ 5″	7′ 7¼″	7' 43'' sides 8' 2" middle	1029	1	7'   7''	4′ 6″			
	111	17′ 10″	8′ 7″	7' 2" sides 8' 1½" middle	1226	1	6′ 8 <u>5</u> ″	5′ 6 %″			
	16	25′ 0″	8′ 0″	7' 43'' sides 8' 2" middle	1520	ı	7' 17"	4′ 6″			
	16	25′ 0″	8′ 0″	7' 43'' sides 8' 2" middle	1520	1	7′ 0″	7′ 0″			

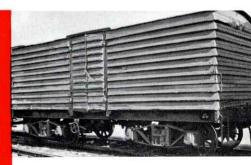
Note—A number of U louvre vans have wooden floors.

#### **BOGIE**

General goods and perishable traffic										
UB }	16	25′	0″	8′	0"	7' 43'' sides 8' 2" middle	1520	1	7′ 0″	7′ 0″
v )	33	35′	10″	8′	61"		2405	2	6′ 85″	5′ 6 7 ″



V louvre van. Two sliding doors



UB louvre van. Double-hinged doors both sides, without stanchion.

#### **BOX VANS**

## ICE-REFRIGERATED VANS

CLASS AND USE	CAPACITY	INT	ERNAL	DC	DOOR OPENING			
CLASS AND USE			:	haiaha	aubia	No.	max	imum
	tons	length	width	height	cubic feet	per side	height	width
4-WHEEL General goods								
B BOGIE	14	21' 103"	8′ 7″	7' 2" sides 8' l½" middle	1500	1	6′ 8 <u>\$</u> ″	5' 6'2"
General goods BA	23	34′ 4″	7′ 8″	6' 2 <u>3</u> " sides	1741	1	6′ 0″	4′ 0″
BB and BP	35	38′ 10″	8′ 7″	7' 0" middle 7' 2" sides 8' 1\frac{1}{3}" middle	2670	2	6′ 85″	5′ 6 7 16′

CLASS AND LIST	CAPACITY	IN	TERNA	L MEASUREMENT	rs	DOOR OPENING			
CLASS AND USE		1	idab	haishe.		No.	maxir	num	
	tons	iength	width	height	cubic feet	per side	height	width	
4-WHEEL Perishable goods									
T (wooden) (three types)	121/2	17′ 3¼″	8′ I <u>‡</u> ″	to roof 7' 1½" sides 8' 6¼" middle to ice bunker 6' 1" min.	1126	Í	6′ 2″	3′ 11″	
	12}	16′ 11‡″	7′ 9½″	$ \begin{cases} \text{to roof} \\ 7' \ l\frac{1}{2}'' \ \text{sides} \\ 8' \ 6\frac{1}{4}'' \ \text{middle} \\ \text{to ice bunker} \\ 6' \ l'' \ \text{min.} \end{cases} $	}1004	I	5′ 10½″	3′ 11″	
¥				to roof 7' 1½" sides 8' 8¼" middle to ice bunker 6' 1" min.	J		6′ 2″	3′ 11″	
Note — A number	r of the abov	e vans ha	ve max	imum load of 12 to	ns for i	meat	hung fro	m hooks.	

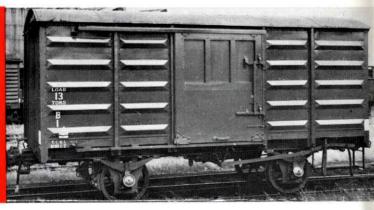
Note — A number of the above vans have maximum load of 12 tons for meat hung from ho

 $\begin{cases} \text{to roof} \\ 7' \ 4'' & \text{sides} \\ 8' \ 11\frac{1}{4}'' \ \text{middle} \\ \text{to ice bunker} \\ 6' \ 6\frac{7}{8}'' \ \ \text{min.} \end{cases}$ - 1520 I 6' 2" 3' 115" T (steel) 15½ 24′ 8¾″ 8′ 0″ **BOGIE** Perishable goods to roof
7' 43" sides
8' 84" middle
to ice bunker
6' 1" min. 5′ 10¾″ 3′ 0″ ... 3′ 11″ ... 3′ 0″ 4′ 10¾″ 11′ 9″ 290 I 720 I TP 151 (three com-partments) 7' 113" 490 I

BP box van. Two sliding doors both sides.



B box van. Single sliding door both sides.





T ice-refrigerated van. Doublehinged doors both sides.



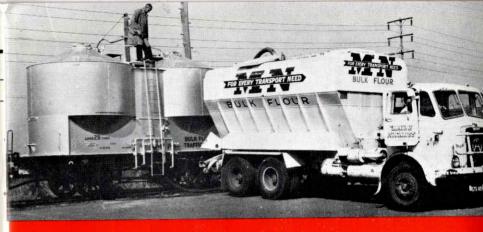
TP ice-refrigerated van. Two single and one double-hinged doors on both sides.

## SPECIAL WAGONS

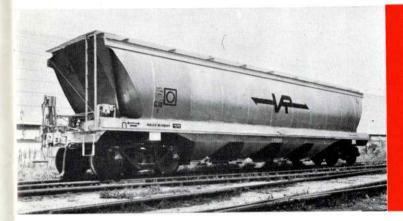
CLASS AND USE	CAPACITY	IN	TERNAL	MEASUREM	NTS
	tons	length	width	height	cubic feet
4-WHEEL					
Bulk cement J (two types)	20 20				640 810
KCC (Fyansford to Cudgewa)	161	two contai			
Bulk flour FJ	20				1032
Briquettes and brown coal IC (tippler)	161	$\begin{cases} 17' & 11\frac{5}{8}'' \\ 22' & 0'' \end{cases}$	8′ 6″ 8′ 7″	4′ 6″ 3′ 8″	687 687
Pyneboard KAB (adjustable bulkheads)	17½	20′ 10″ to 20′ 11″	9′ 0″	7′ 0″ ends	
Rail-road containers KC KMC	22 22	}three L.C	C.L. contai	iners	
Pulpwood KT	22	22′ 0″	8′ 6″		
Timber IT (three bolsters on floor)	161/2	22′ 0″	8′ 6″	3′ 8″ on 7′ 6″ oth	
KS	22	22′ 0″	8′ 6″		
BOGIE					
Bulk cement CJ	43				1320
Bulk wheat GJX	57				2590
Pyneboard QAB (adjustable bulkheads)	30 distributed	49′ 3″ to 45′ 8″	9′ 0′		







FJ bulk flour wagon. Gravity fill and pneumatic discharge.



GJX bulk wheat wagon.

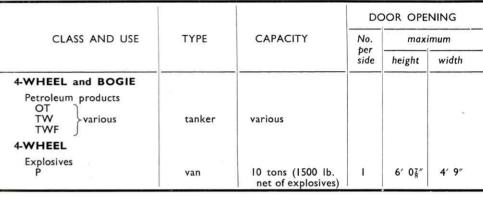


QAB wagon for Pyneboard traffic.

#### LIVESTOCK VANS

## PETROLEUM PRODUCTS, EXPLOSIVES

						D	OOR	OPE	NING		
CLASS AND USE			NUMB OF		CAPACITY	No.	n	naxir	nu <b>m</b>		
CLASS AND USE			ANIMA		tons	per side	heig	ht	width		
4-WHEEL											
Sheep L			100		41/2	4	3′ 2	2″	4' 0"		
Cattle M			10		5 <u>‡</u>	ı	6′ 9	91/	4′ 07″		
BOGIE											
Sheep LL and LF LP			200 200		9	8	3′ 2 3′ 2	2"	4′ 0″ 4′ 0″		
Cattle MM and MF			20		11	2	6′ 7	73″	4' 0%"		
CLASS AND USE	CADACITY	INTER	NAL ME	ASUREM	1ENTS						
CLASS AND USE	CAPACITY	length	width	height	cub. feet						
4-WHEEL											
Cattle and fertilizer MS	10 animals or 11 tons	17′ 6″	7′ 4″	7′ 0″	888	1	6′ 9	91/	4′ 07″		







Single-compartment petroleum tanker.

Bitumen tanker with heater tubes.



LP livestock van. Four sliding doors to each deck on both sides.



L livestock van. Two sliding doors to each deck on both sides.



Bitumen tanker with heater tubes.



M livestock van. One drop down ramp



MM livestock van. Two combination sliding



Three-compartment petroleum tanker.



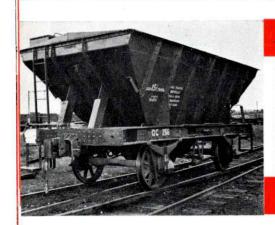
Twin-compartment petroleum tanker.

P explosives van.



#### HOPPER WAGONS

	CAPACITY		INTERNAL	MEASURE	MENTS	γ "
CLASS AND USE	tons	length	width	hei	ght	cubic - yards
				inc. hopper	exc. hopper	yaras
4-WHEEL  Ballast  O (two types)	141	17′ 8″	9/ 41//	5' 41"		15 - 2
	16½ 16½	20′ 0″	8′ 4½″ 9′ 0″	5′ 6½″ 7′ 4½″		15.2
Sand						
OC (metal covers)	151	20′ 0″	9′ 0″	7′ 4½″		15 ⋅2
BOGIE Ballast						
NN (two types)	31	17′ 8 <u>1</u> ″	8′ 5″	7′ 10″ sides	5′ 3″ lowered	29 ·6 24 ·5
	35 and 31	19′ 7¼″	8′ 4¾″	8' 51"	5′ 3″ lowered	33 8 25 · 5
ON QN	16½ 27	20′ 0″ 33′ 0°	9′ 9″ 8′ 5″	6′ 3″ 4′ 2″	1′ 8″	15·2 21·5



OC hopper wagon. Steel sheet covering.



QN hopper wagon.

# BOGIE EXCHANGE

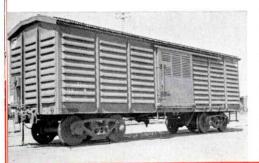
These Victorian vehicles can be inter-changed between broad (5' 3") and standard (4'  $8\frac{1}{2}$ ") gauge lines at Melbourne, Wodonga, or Port Pirie to save transhipment of vehicles' contents. This allows straight through freighting between Kalgoorlie and Brisbane.

## **BOGIE EXCHANGE VEHICLES**

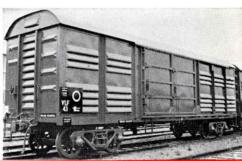
				555				ITC.	D	00	r of	ENI	١G		
	S AND	CAPACITY		IN	ITE	RNA	L I	MEA	SUREMEN	115	No.		ma	ximu	m
7		tons	le	ngth	w	idth	height			cubic feet		he	ight	wi	dth
вох															
Gener	ral goods										0.	17220	1000000		
BL	X	40	40′	0"	8′	83"	7' 9'	103 53″	" sides middle	3160	- 1	7′	63"	12′	
вм	1F	35	40′	0″	8′	7″	7′ 8′	6" 5 <u>1</u> "	sides middle	2885	1	7′	$3\frac{7}{8}''$	12′	0″
вм	1X	35	38′	10″	8′	7″	7'	2" 1½"	sides middle	2670	2	6′	$8\tfrac38''$	5′	6 7 "
OPEN	ľ							ā							
Gene	ral goods													10/	11//
EX	(	44	42′	115"	8′	8″	4′	6"		1675	2	4	6″	10	1 <u>1</u> ″
	X (three	50 50 50	45′ 45′ 45′	$11\frac{1}{4}''$ $11\frac{1}{4}''$ $11\frac{1}{4}''$	8' 9' 9'	117″ 0″ 04″	4'	$6\frac{1}{4}''$ $6\frac{1}{4}''$ $6\frac{1}{4}''$		1867 1869 1874	2 2 2	6' 6' 6'	4¼" 4¼" 4¼"	10'	3″ 3″ 3″
Steel	l.	50	1	114"		6″									
SF	X	50	1	4	ľ										
LO	JVRE														
an	shable d genera ods	1													
	HX (two	50	52	0"	8	$6_4^{3^{\prime\prime}}$	8'	0½" 7½"	sides middle	4115	I	7′	$6\tfrac{3}{8}''$	12	0″
ty	pes)	50	52	0″	8	$6_4^{3^{\prime\prime}}$	7'	10	" sides	4050	-1	7′	$6\frac{3}{8}^{\prime\prime}$	12′	0″
	X (two	40	40	0″	8′	63"	7'	103	" sides	3110	1	7′	$6\tfrac{3}{8}''$	12	01"
ty	pes)	40	40	0″	8	63"	9' 8' 9'	01/	middle sides middle	3160	, t	7′	$6\tfrac{3}{8}''$	12	$0\frac{1}{2}''$
	F (two pes)	35	35	10"	8	63"	7	2″	sides	2405	2	6'	83"	5	6 7 "
		35	35	10″	8	$6_4^{3''}$	7	21	sides	2405	1	6'	$9_{\frac{1}{4}''}$	6	0″
Vi	P	35	38	10"	8	7″	8' 7' 8'	2"	sides	2670	2	6'	85″	5	6 16"

. -

CLASS AND	CAPACITY	INTERN	NAL MEASUREMENTS		
USE	tons	length	width	height	
FLAT WAGONS					
Rail-road containers					
QCX	46 distributed	45′ 0″	8′ 11″ 8′ 1″	(container fitting)	
Flat sheets ESX Plaster board	50	45′       1   1   1   1   1   1   1   1	9′ 1″		
SBX (fixed bulkheads) Flexi-Vans	44 distributed	40′0″	8′ 9″		
FVF (single) TVX (twin)		n and cor n and cor			
SPECIAL					
Cable SC Bulk cement	44			·	
JX	50	43′ 6″ (3	hoppe	ers 540 cu. ft. each) 1620 cubic feet	
Motor cars AX	10	55′ 11″	8′ 6″	5' 3" lower deck 8 cars, 13' 4" long or 5' $1\frac{1}{2}$ " upper deck 6 cars, over 17' 10" long	
ALX	15	73′	8′ 7″	5' 4" lower deck 12 cars, 11' 8" long; 10 cars, 5' 23" upper deck 14' 1" long; or 8 cars, 17' 7" long	
MLX	15	73′	8′ 7″	5' 2½" lower deck { 7 cars, 10' 1"; 6 cars, 11' 11"; 5 cars, 14' 4"; or 4 cars, 17' 11" 5' 1" upper deck car bodies	
Petroleum products TWX	tankers,	various		5 or 6	





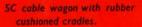


VLX box van. Single sliding door both sides.



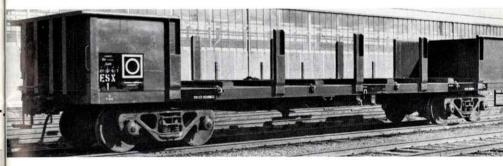
JX bulk cement wagon. Gravity fill and pneumatic discharge.



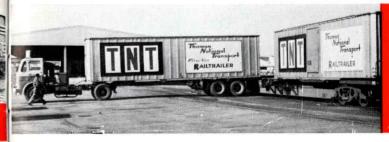




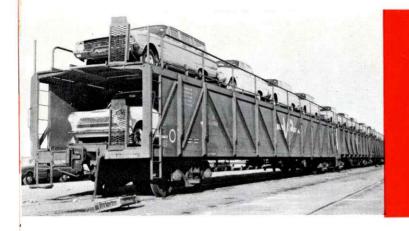
QCX rail-road container wagon



ESX steel transport wagon.



TVX twin
Flexi-Van wagon.



ALX motor car transport wagon.







VHX box van. Single sliding door both sides.



ELX open wagon. Two sets of double-hinged doors both sides without stanchions. Fluted sides for partitioning loading.

## **OMMODITY GUIDE TO CLASS OF VEHICLE**

TYPE OF COMMODITY	BROAD GAUGE Page	BOGIE EXCHANGE Page
BALLAST	14	-
BRIQUETTES AND BROWN COAL	10	_
● CABLE	_	16, 17
CEMENT—BULK	10	16, 17
● CONTAINERS	10	16, 17, 20,
● EXPLOSIVES	13, 14	2I
• FERTILIZER	12	_
• FLAT SHEETS	-	16
● FLEXI-VANS	-	16, 17, 21
● FLOUR—BULK	10	_
<ul><li>GENERAL GOODS</li></ul>	4, 7, 8,	15
● LIVESTOCK	12	-
<ul> <li>LONG AND SPECIAL LOADINGS</li> </ul>	4, 5, 6	_
● MACHINERY	5	
MOTOR CARS AND CAR BODIES	-	16, 18
PERISHABLE GOODS	7, 9	15
PETROLEUM PRODUCTS	13	16
● PLASTER BOARD	=	16
● PULPWOOD	10	_
PYNEBOARD	10	-
● SAND	14	2
<ul><li>STATORS AND TRANSFORMERS</li></ul>	6, 7	_
● STEEL	_	15
● TIMBER	10	-
● WHEAT—BULK	4, 10, 11	
	1	

(See page 3 for vehicle index)

## **CONTAINERS**

Pictures in this section illustrate the extensive use of containers in the Rail Pak system of freighting. These include insulated and ordinary L.C.L. (less than car load) containers, hired out by the Victorian Railways, and a wide range of customer-built types. Rail Pak advantages are: perfect rail-road co-ordination, elimination of goods handling between consignment and delivery, bulk handling benefits and saving in packaging, bank-vault security, and protection against dust and weather.



6-ton or 295-cu. ft. insulated L.C.L. container.



6-ton or 320-cu. ft. ordinary L.C.L. container, also for bulk malt.



Side door container, 14 ft. long.



End door container, 14 ft.



Container with automatic diesel engine powered freezer unit.



Container for textile industry.



Bulk cement container. Plywood construction.



Industrial liquids container. Insulated.



Tallow container with inbuilt heating coils.



Liquid petroleum gas container.



Rail-road-sea container. Tasmanian service.



Two 14-ft. containers.



Flexi-Flat container with removable sides and ends (Flexi-Van system).



Flexi-Frig container, for perishable goods, with automatic diesel engine powered freezer unit (Flexi-Van system).

## **PACKAGING**

For acceptance at Commissioners' risk, packaging must conform to the specifications set out in the Goods Rates Book, Volume I (your local stationmaster has details).

Internal and external packaging materials should be sufficiently strong so that the product will reach the customer in perfect condition.

WOODEN CRATES AND CASES should be built of good timber and of sufficient strength to safely carry the contents during handling and transit. External battens, bracing pieces, and wire or steel strapping should be provided to ensure rigidity. Internal bracing must be used to hold contents securely in position.

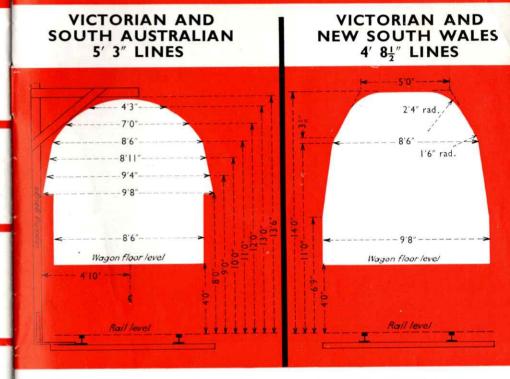
FIBREBOARD CONTAINERS should conform to the various standards published by the Australian Standards Association, and should not be packed beyond the weight they are designed to hold. Internal divisions and/or cushioning material should be used to prevent movement of the products. Flaps should be sealed with silicate type glue or stapled to ensure rigidity of the container.

**BALES**—wrap contents in waterproof material and carefully sew bale with strong twine.

ADDRESSING AND LABELLING—Use block letters to ensure legibility. Tie-on labels must be strong and securely tied to the package. Enclose a packing slip showing the contents and names and addresses of the sender and the consignee. Use special labels in prominent red letters to indicate special handling and stowing requirements, such as "Fragile", "Handle with care", "Do not drop", "This side up", etc. All old addresses or labels should be completely removed or obliterated.

STOWING—Stow packages tightly, both laterally and longitudinally. Avoid contact with roof beams of vans. Fibreboard containers should be bonded (brick wall fashion) to prevent individual movement. Heavy cases, machinery, etc., must be secured with cleats and/or ropes to prevent movement.

## **NORMAL LOADING LIMITS**



These diagrams show the maximum dimensions of loadings for open wagons on broad and standard gauge lines. Height is measured from rail level, and width varies according to the loading height. A loading gauge is available at most Victorian sidings to measure loads for broad gauge traffic. The angular metal foot of the loading gauge must rest on the sleeper—not on the rail—with the end of the foot touching the outer edge of the rail.

#### ABNORMAL LOADINGS

Before loading consignments of a greater over-all height or width (including ropes, chains, etc., used to secure the loading) than the authorized load dimensions shown in the normal loading limits diagrams, or of such an exceptional length that there is a doubt whether the load would pass safely around curves, details must be sent to the Superintendent of Freight Operations, Room 77, Railways Administrative Offices, Spencer Street, Melbourne—'phone 62 0311, extension 1429 or 1278.

