

LATHAM

Loading Dock Bumpers & Marine Fenders



LATHAM

DOCK LOADING AND MARINE FENDERS

LATHAM DOCK RESILIENT LAMINATED RUBBER DOCK BUMPERS

This brochure provides complete information for the selection and specification of Laminated Rubber Dock Bumpers. The detailed description and illustrations provide a handy reference for the majority of applications.

MONEY SAVERS FOR CARRIERS, INDUSTRIES AND ALL SHIPPERS

LATHAM RESILIENT DOCK BUMPERS

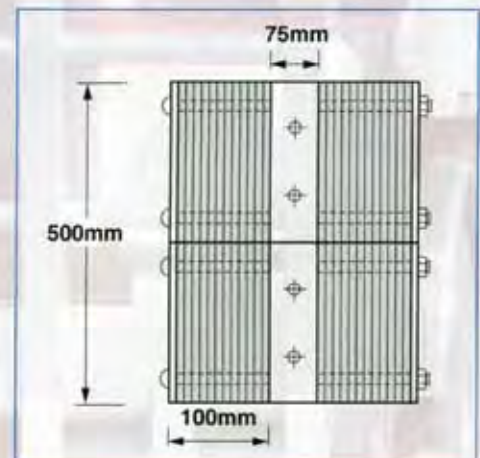
- Modern in design, attractive in appearance
- Maximum protection for dock, truck and cargo
- Costly dock repairs reduced
- Applicable to any type of construction
- Tested to absorb up to 80% of impact force
- Fast, easy installation. Long life.

Latham Dock Bumpers should be specified for maximum, long-life protection for all loading docks on warehouses, freight terminals, post offices, hotels, supermarkets and other commercial, industrial or institutional buildings with heavy dock traffic.

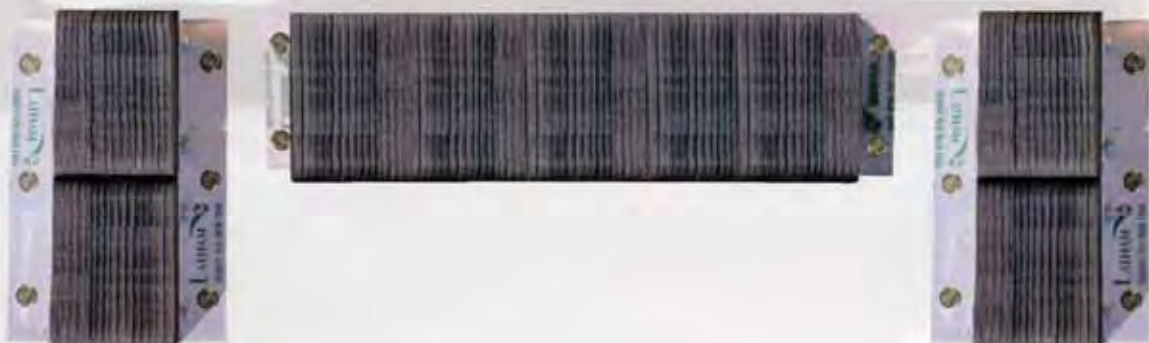
Latham Dock Bumpers are made from resilient, uniform-size, fabric-reinforced rubber pads cut from selected recycled truck tyres and conveyor belting, pressure laminated between heavy structural steel angles and reinforced with 18mm steel tie rods.

Unlike moulded rubber or wood-plank bumpers Latham Docks tough, unbroken plies of truck tyre fabric and belting virtually eliminate chipping or abrasion. Positive anchoring through heavy steel plate insures permanent installation. Thickness of rubber cushion, 115mm, absorbs up to 80% of the impact force.

If your particular type of application is not covered, we can design and manufacture Dock Bumpers to meet your specific needs.



Lathams Laminated Dock Bumper sets



BUMPER RANGE

LAMINATED DOCK BUMPERS pages 3 & 4



Latham's LAMINATED Dock Bumpers are modern in design and give maximum protection for docks, trucks and cargo. Costly dock repairs are reduced and they are applicable to any type construction. They are tested to absorb 80% of impact force and are fast and easy to install. Also available in vertical and horizontal bumper.

EXTRA THICK DOCK BUMPERS pages 5 & 6

Latham's EXTRA THICK Dock Bumpers are modern in design and give maximum protection for docks, trucks and cargo. Available in vertical and horizontal bumpers. Positive anchoring through heavy steel plate ensures permanent shape retention.



STEEL FACE EXTRA HEAVY DUTY page 7



Latham's STEEL FACE EXTRA HEAVY DUTY Dock Bumpers are designed to eliminate friction of up and down movement from specialty trailers. They provide the best dock protection available. They use state of the art technology and are impervious to weather damage.

MOULDED & EXTRUDED RUBBER GUARDS pages 8 & 9

Latham's MOULDED RUBBER BUMPERS & GUARDS are modern in design, give maximum protection for commercial loading docks, parking garages, and marinas. They are good for in-plant wall protection from fork-lifts and larger material handling vehicles. They can also be used as rub rails at the sides of truck walls.



EXTRUDED DOOR SEALS AND CORNER GUARDS page 10



Latham's EXTRUDED DOOR SEALS & CORNER GUARDS are designed to be mounted horizontally or vertically along the corners of walls or beams to control damage. They are easy to install and are made from tough and long lasting rubber.

MARINE FENDERS pages 12 & 13

Latham offer CYLINDRICAL, 'D'SQUARE/WING-TYPE, V and W Marine Dock Fenders. Marine Fenders are easy to install, economical and a wide range of energy capacities and sizes are available. Some applications are dry docking, tug boats, dredges and work boats.



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APPLICATIONS

Long lasting protection

Latham Dock Bumpers are a major consideration when investing in dock facilities. It is important to protect that investment with bumpers that are built to withstand years of punishment and provide maximum protection for dock, building, truck and cargo.

Latham Dock Bumpers are made from uniform size fabric, reinforced rubber pads cut from premium quality recycled material. Pads are pressure laminated between heavy structural steel angles and secured with 18mm steel tie rods.

Destruction tests have demonstrated that Latham Dock Bumpers, made of laminated sections of rubberised fabric in a steel frame, provide maximum impact absorption, absorbing up to 80% of impact. Latham Dock Bumpers have advantages over moulded or extruded all-rubber bumpers.

The steel frame reinforces the rubberised-fabric bumper and is fully protected by a minimum 38mm of rubber. Structural mounting angles permit welded installations or provide bolting through steel (as opposed to bolting through rubber). Anchor bolts are protected by a minimum of 75mm of rubber so they cannot transfer damaging impact to the dock or foundation.

Specify finish for exposed metal parts: either painted or galvanised.

Features

- Tough plies of truck tyre and belting virtually eliminates chipping or abrasion, unlike moulded rubber, extruded rubber, or wood plank bumpers
- Attractive black colour enhances a neat, professional architectural look
- Available in vertical or horizontal type bumpers
- Destruction tests have demonstrated maximum impact absorption
- Anchor bolts are protected by at least 75mm of rubber to prevent damage to dock
- Extends life of foam pad doorseals.

Benefits

- Virtually maintenance free
- Provides maximum protection against vehicle damage to docks, buildings, and cargo
- Eliminates costly repairs from severe shock to docks
- Constructed to last and provide years of protection
- Anchored through thick steel angles to provide stability
- Performs on any truck dock in any type of weather

Selecting Dock Bumper Arrangements

Many factors help to determine the proper arrangement of dock bumpers. Many installations should have vertical and horizontal Dock Bumper arrangements for complete dock, truck and cargo protection. When shelters are used, extra length, one piece bumpers completely seal trucks to the dock. Protection for 2500mm bay is usually accomplished with two horizontal bumpers of standard length.

Overlapping arrangements provide continuous protection and minimise installation costs.

Bumper Heights

(Horizontal Unit 250mm height) (Vertical Units in 500mm, 750mm or 1000mm heights).

The 250mm height standard bumper is used for standard height docks that accommodate standard, or approximately equal-height trucks.

Abundant Uses

Applications for Latham Laminated Rubber Dock Bumpers are practically limitless. They can be used projecting above low docks, as rub rails at the sides of truck wells and as special construction features to accommodate unusual anchoring conditions. As wall bumpers to protect against lift fork-lifts, trucks, or as super thick bumpers with special supports.

LAMINATED DOCK BUMPERS

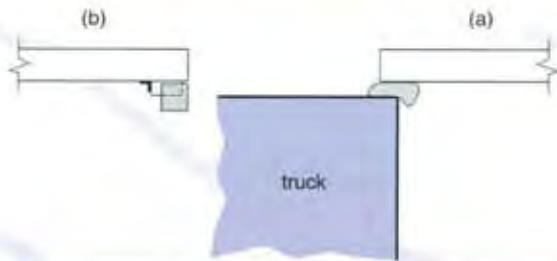


Fig. 1 - PLAN VIEW

Over-compression of the foam pad in door seals (a) can split the cover material or force the pad into direct line of traffic. Thicker bumpers (b) can prevent this.

Special Requirements

For installations with dock door seals (Figure 1) or inclined ramps (Figure 2), where greater stand-out distance from dock sills is required, 115mm thick bumpers may be adequate. Extra-Thick Dock Bumpers (230mm and 350mm) should be specified for use where door seals are extra thick, where there are declined approaches, canopies, overhangs or other architectural features requiring even greater stand-out.



Fig. 2 - SIDE ELEVATION

The 500mm, 750mm or 1000mm vertical heights provide extended depth protection for varying truck heights (Fig. 3) or the lower steel members of trailer bodies. Consider them for docks that accommodate large and small vehicles. When used in combination with horizontal units (illustrated in Fig. 5), vertical units prevent a loaded truck from getting under and prying off the horizontal bumpers as the truck rises while being unloaded (Fig. 4). Vertical units are particularly applicable to truck levelling devices that raise the entire truck to dock level.

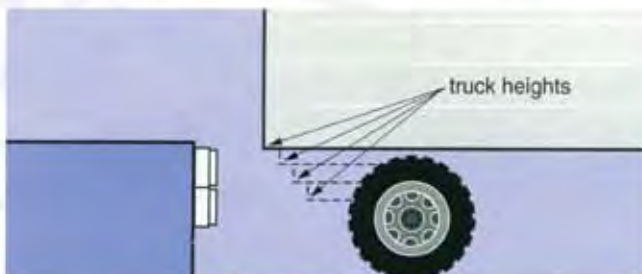


Fig. 3 - SIDE ELEVATION



Fig. 4 - SIDE ELEVATION

For Open Docks

(With no pre-determined truck spots). Combination horizontal/vertical installations provide maximum protection (Fig. 5). If 900mm horizontal units are used, maximum spacing should be 600mm between units (1550mm on centres). If truck approach is angled, this spacing should be reduced to prevent a truck corner from contacting the dock proper between units.



Fig. 5 - FRONT ELEVATION

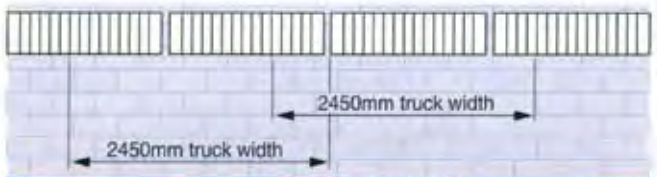


Fig. 6 - FRONT ELEVATION

For Refrigerated Doors (With or Without Dock Shelters)

Extra-length, one-piece bumpers in 115mm thickness can be fabricated to seal the truck to the dock, minimise loss of refrigeration and maintaining maximum protection for dock, truck and dock shelter. The same applies to doors sealed to maintain warm temperatures in winter. Wherever shelters are also used, it is important that rubber surface of the bumper extend under the vertical members of the shelter pad to complete the all-round seal.

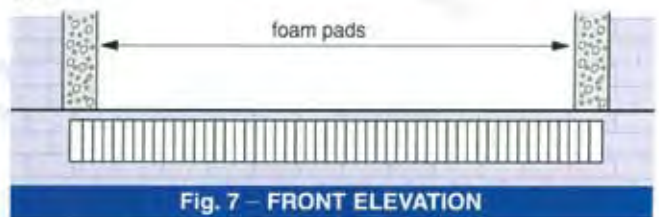


Fig. 7 - FRONT ELEVATION

Full Length Horizontal Bumper

STANDARD DOCK BUMPERS AND ACCESSORIES

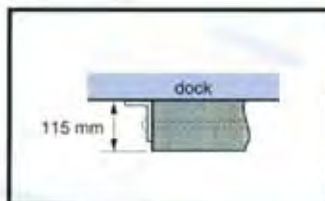
RESILIENT LAMINATED DOCK BUMPERS

Material/Thickness

- Fabric reinforced rubber pads cut from selected recycled truck tyres and belting
- Rubber pads laminated between structural steel angles and secured with 18mm steel tie rods

Installation

- Structural mounting angles permit welded installations or provide bolting through steel
- No assembly required



Lathams Standard Resilient Horizontal Bumpers

LATHAM STANDARD RESILIENT HORIZONTAL BUMPERS							LATHAM STANDARD RESILIENT VERTICAL BUMPERS					
All measurements in mm (approx)												
	Wt. kg	A	B	C	D	E		Wt. kg	A	B	C	D
LB410 — 14	15	280	150	250	350	400	LVB420 — 11	24	500	210	280	330
LB410 — 24	24	530	150	250	600	650	LVB430 — 11	35	750	210	280	330
LB410 — 36	36	830	150	250	900	950	LVB440 — 11	43	1000	210	280	330

Uses/Applications

- Comes in two models; bumpers with angles for most applications – equipped with 6mm steel angles on both ends; and bumpers with flat plate for use with dock levellers – optional 6mm flat steel plate for one or both ends.
- Have unlimited applications in factories, warehouses, docks
- Projecting above low docks
- Rub rails at the sides of truck wells
- Special construction features to accommodate unusual anchoring conditions
- Wall bumpers to protect against fork lift trucks

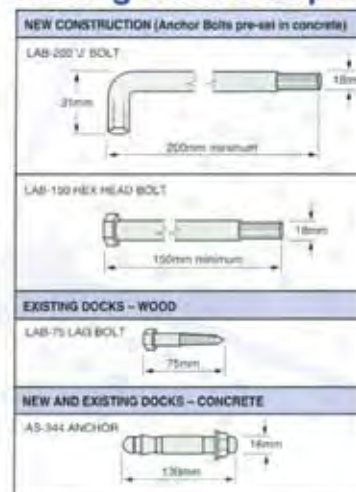
Specifications

- Supply and install Laminated Rubber Dock Bumpers as manufactured by Latham Australia, 14 Tennyson Road, Gladesville, NSW 2111. Ph: (02) 9879 7888 Fax: (02) 9879 7666. Model No.(s) _____ Resilient rubber material of bumpers shall be rubberised-fabric truck tyres and belting cut to uniform size pads, 115mm x 250mm and punched to receive 18mm supporting rods.
- All bumpers must be 115mm thick (projection from dock), and closed with two 75 x 63 x 6mm structural

steel angles. The angles are welded to 18mm rods at one end and closed with threaded rod and nut at the other end.

- The anchor leg of angle extends a minimum of 63mm beyond the rubber surface at either end and contain two 20mm anchor bolt holes as required. (Anchor bolts are supplied separately).
- The finish for exposed metal parts shall be painted or galvanised – (specify).

Anchor Accessories For Loading Dock Bumpers



EXTRA LENGTH DOCK BUMPERS

EXTRA LENGTH Featuring AD-3 Anchoring Device (up to 3000mm)

Material/Thickness

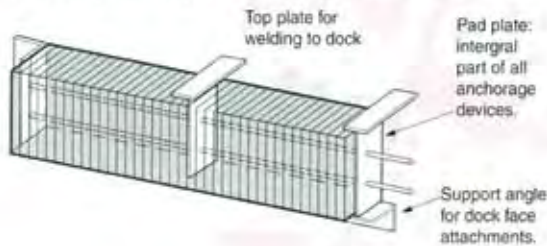
- Made of tough rubberised fabric pads, 115mm thick cut from selected recycled truck tyres and belting
- Rubber pads laminated between heavy structural steel angles and secured with 18mm steel tie rods

Installation

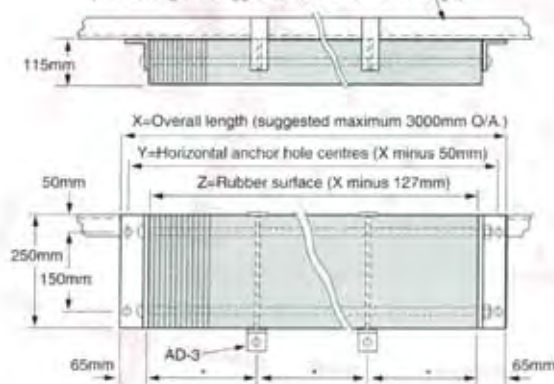
- Structural mounting angles permit welded installations or provide bolting through steel
- No assembly required

Uses/Applications

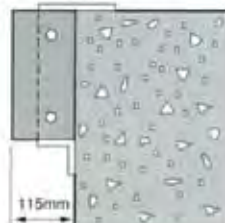
- Ideal where refrigeration or warmth is needed
- Have unlimited use in factories, warehouses, docks.
- Projecting above low docks
- Rub rails at the sides of truck wells
- Special construction features to accommodate unusual anchoring conditions
- Wall bumpers to protect against fork lift trucks



For refrigeration door or other applications where continuous protection is desired
(A curb angle is suggested for welded anchorage)



*Approximate equ-distant, however exact location cannot be determined before fabrication.



Ordering Information

Specify model LB410 – 115mm thickness x ___ mm. Overall Length x Type and Number of Fixing Devices

Specify model LB910 – 230mm thickness x ___ mm. Overall Length x Type and Number of Fixing Devices

Specify model LB1210 – 350mm thickness x ___ mm. Overall Length x Type and Number of Fixing Devices (Bumper Length Determines Number of Fixing Devices)

Example:

Model LB410 x 2575 – AD-3 x 2

i.e. 115mm thick x 250mm depth x 2575mm Overall Length x Anchor Device AD-3 x 2 Devices

Specifications

- Supply and install Extra-Length Laminated Rubber Dock Bumpers as manufactured by Latham Australia, 14 Tennyson Road, Gladesville, NSW 2111. Ph: (02) 9879 7888 Fax: (02) 9879 7666. Model No.(s) _____ Resilient rubber material of bumpers shall be rubberised-fabric truck tyres and belting cut to uniform size pads, 115mm x 250mm and punched to receive 18mm supporting rods.
- All bumpers must be either 115mm, 230mm or 350mm thick (projection from dock), and closed with two structural angles. The angles are welded to 18mm rods at one end and closed with threaded rod and nut at the other end.
- The anchor leg of angle shall extend a minimum of 63mm beyond the rubber surface at either end and contains two 20mm anchor bolt holes as required. (Anchor bolts are supplied separately).
- There are four (4) options for anchorage devices for extra-length bumpers.
- The finish for exposed metal parts shall be painted or galvanised – (specify).

ANCHOR DEVICES FOR EXTRA LENGTH BUMPERS	
A	6mm x 75mm x 175mm plate
B	6mm x 75mm x 75mm plate
C	6mm x 75mm x 255mm plate
D	6mm x 75mm x 65mm x 75mm plate

EXTRA THICK LAMINATED DOCK BUMPERS



Material/Thickness

- Same strong construction of uniform size, fabric reinforced rubber pads cut from selected recycled truck tyres and belting as standard laminated bumpers
- Made of tough rubberised fabric pads, 230mm and 350mm thick

Installation

- No assembly required, and easily installed
- structural mounting angles permit welded installations or provide bolting through steel

Uses/Applications

- Bumpers are available for most applications – equipped with 7mm steel angles on both ends; and bumpers with flat plate for use with dock levellers – optional 7mm flat steel plate for one or both ends for installations where dock seals are very thick

- For installations where dock seals are very thick, Extra-Thick Bumpers can be used to produce a quality seal.
- For installations where greater 'stand out' distance from dock sills is required due to steep ramps, canopied docks, overhangs or other architectural features.

Specifications

- Supply and install Extra-Thick Laminated Rubber Dock Bumpers as manufactured by Latham Australia, 14 Tennyson Road, Gladesville, NSW 2111. Ph: (02) 9879 7888 Fax: (02) 9879 7666. Model No.(s) _____ Resilient rubber material of bumpers are rubberised-fabric truck tyres and belting cut to uniform size pads, in stand-out thickness of 230mm or 350mm for all types and punched to receive 7mm steel closure plates.
- All bumpers are closed with two 10mm steel formed plates. Angles are welded to 18mm rods at one end and closed with threaded rod and nut at the other end. Flat plates available.
- Anchor leg of angle extends a minimum of 75mm beyond the rubber surface at either end and contains two or three 20mm anchor bolt holes as required. (Anchor bolts are supplied separately). Finish for exposed metal parts shall be painted or galvanised – (specify).



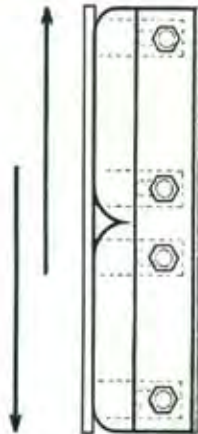
EXTRA THICK LAMINATED RUBBER DOCK BUMPERS														
		All measurements in mm (approx)												
SERIES 900	 230 mm	Wt. kg	A	B	C	D	E	Wt. kg	A	B	C	D		
		LB910 — 14	29	280	150	250	350	400	LVB920 — 11	36	500	210	280	330
		LB910 — 24	46	530	150	250	600	650	LVB930 — 11	52	750	210	280	330
		LB910 — 36	70	830	150	250	900	950	LVB940 — 11	72	1000	210	280	330
SERIES 1200	 350 mm	Wt. kg	A	B	C	D	E	Wt. kg	A	B	C	D		
		LB1210 — 14	36	280	150	250	350	400	LVB1220 — 11	48	500	210	280	330
		LB1210 — 24	58	530	150	250	600	650	LVB1230 — 11	70	750	210	280	330
		LB1210 — 36	90	830	150	250	900	950	LVB1240 — 11	96	1000	210	280	330

Extra-Thick (230mm and 350mm) bumpers offer heavy duty protection, eliminate excessive compression of dock shelters or foam seals and prevent canted trailers on declined approaches to flushwall doors from hitting upper building wall.

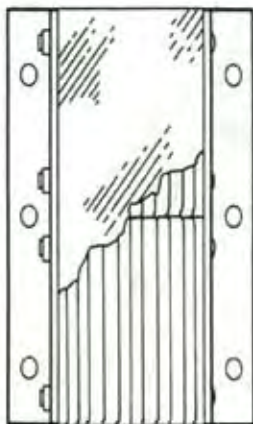
STEEL FACE EXTRA HEAVY DUTY DOCK BUMPERS



ACCOMMODATES
VEHICLE HEIGHT
MOVEMENT



Steel Face Bumper side view



Steel Face Bumper front view

Material/Thickness

- Steel face is 6mm thick heavy-duty, high-carbon steel that is mounted to standard laminated dock bumper
- Also available in extra-thick sizes of 230mm and 350mm thick
- Can be mounted in various heights, from flush mount to 300mm above dock, depending on highest impact area

Steel Face 135mm thick Horizontal Bumpers

LB	SF	Dimensions (mm)	Weight (kg)
410	11	250 x 350	24
410	24	250 x 600	35
410	36	250 x 900	54

Vertical Bumpers

LVB	SF	Dimensions (mm)	Weight (kg)
410	11	280 x 500	35
410	11	280 x 750	53
410	11	280 x 1000	70

Installation

- Structural mounting angles permit welded installation or provide bolting through steel
- No assembly required

Uses/Applications

- Use in dock areas where excessive friction from up-and-down trailer movement occurs
- Can be used in any material-handling system area where maximum dock protection is required

Specifications

Supply and install durable Steel Face Dock Bumpers as manufactured by Latham Australia, 14 Tennyson Road, Gladesville, NSW 2111. Ph: (02) 9879 7888 Fax: (02) 9879 7666. Model No.(s) _____ Resilient rubber material of bumpers shall be rubberised-fabric truck tyres and belting cut to uniform size pads, 115mm thick or in extra thick sizes of 230mm or 350mm, and punched to receive 18mm supporting rods.

Bumper to have 10mm steel face plate equal to the rubber surface dimensions. Plate to be welded to two steel support brackets which are to extend back to the 18mm supporting rods. Brackets to be punched with elongated holes to allow steel face to 'float' upon impact. Finish to be flat black enamel only.

Steel Face Extra Heavy Duty Laminated Dock Bumpers eliminates friction damage of up and down movement during loading and unloading of heavy trucks.

MOULDED RUBBER GUARDS

DOCK BUMPERS

MOULDED Prestige Light Duty Areas

Features

- Makes for a clean, neat, attractive dock area
- Moulded in one piece of all new rubber compound
- Won't warp, rust or rot
- Compact size

Benefits

- Unique design and construction
- Immune to weather conditions
- Contains the correct amount of resiliency to absorb pressure and impact shock without damage to truck or dock

Material/Thickness

- Manufactured from fibre reinforced prime rubber containing nylon and polyester
- 100mm thick
- All bumpers have a durometer reading of 80 ± 5
- Pre-drilled, countersunk mounting holes for easy installation, and are drilled to accept 18mm anchor bolts

Installation

- Installation is easy — 18mm fixings are mounted through pre-drilled holes into dock

Uses/Applications

- Dock protection

Specifications

- Furnish and install Moulded Rubber Dock Bumper Type LBB manufactured by Latham Australia, 14 Tennyson Road, Gladesville, NSW 2111. Ph: (02) 9879 7888 Fax: (02) 9879 7666. Model No.(s) _____ Moulded in one piece of nylon and polyester reinforced rubber.
- Bumper to have a durometer reading of 80 ± 5
- Weight — 17kg



Type LBB



EXTRUDED RUBBER GUARDS

Material/Thickness

- Made of EPDM extruded rubber for medium and heavy duty protection
- Standard length triangular guards are 4 metres
- Type DR and DH available with steel mounting bar (optional extra)
- Type DF, DM, DR, DS standard colour black
- DS also available in white.
- Custom colours are available on request for production runs.

Installation

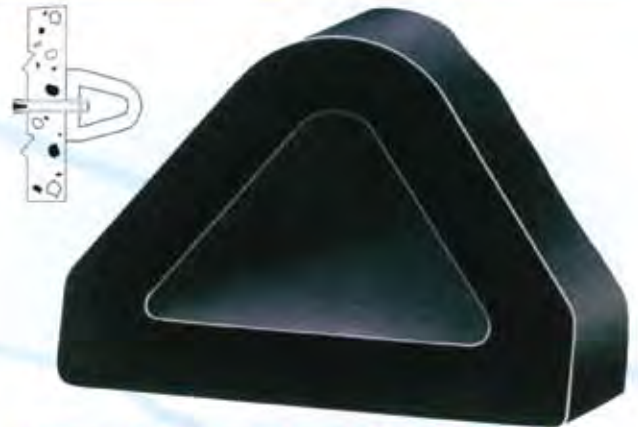
- Anchor bolts and Latham Titazel Thixotropic Resin Adhesive over pre-drilled mounting holes into dock factory drilling rubber for fixing (optional extra) continuous loose steel flat bar for superior mounting (optional extra)

Uses/Applications

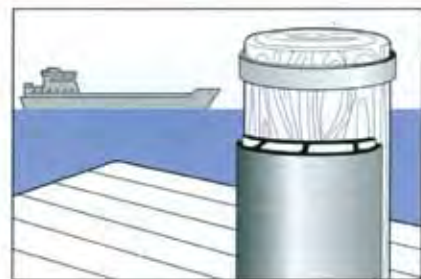
- Appropriate for outdoor or indoor protection
- For commercial loading docks, parking garages, truck fenders and marinas
- For vehicles – trucks, trailers and heavy duty construction equipment
- Rub rails at the sides of truck walls
- In-plant wall protection from fork-lifts and other material handling vehicles

Specifications

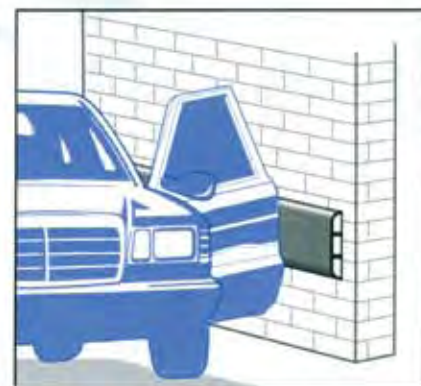
- Supply and install Extruded Rubber Dock Bumpers consisting of EPDM rubber by Latham Australia, 14 Tennyson Road, Gladesville, NSW 2111. Ph: (02) 9879 7888 Fax: (02) 9879 7666. Model No.(s)



Type	H x W
DH	85 x 110
DR	60 x 80
DM	35 x 55
DS	20 x 25
DF	30 x 175



VESSEL PROTECTION



DOOR PROTECTION

Marine Dock and Parking Garage Flat Strip Guards

Uses/Applications

- Appropriate for outdoor or indoor protection
- For commercial loading docks, parking garages, and marinas, boats and vessel protection
- Standard colour black.

Type DF
30H x 175W



EXTRUDED DOOR SEALS AND BLACK CORNER GUARDS

DOOR SEALS - TYPE DC

Material/Thickness

- Soft resilient seal
- Standard length 4 metres
- Black colour

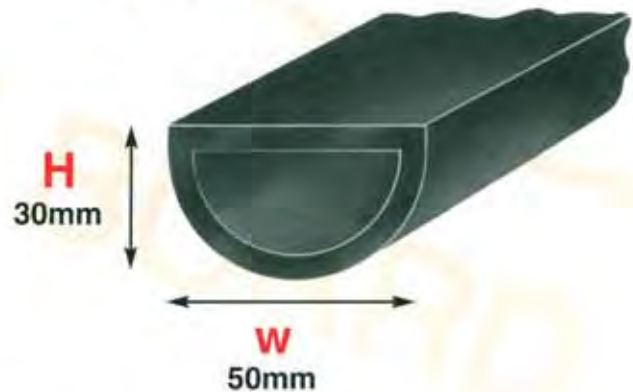
Uses/Applications

- As a buffer strip on the bottom or edge of doors

Installation

- On request available factory drilled (optional extra)
- Continuous loose steel flat bar for superior mounting (optional extra)

DC BUMPER



B88 - (65 x 65) x 900mm LONG
(EXTRA LENGTH CORNER GUARDS TO ORDER)

B88 RESILIENT CORNER GUARDS

- B88 Resilient Corner Guards
- (Grey colour available at extra cost)

Features

- Mounted vertically or horizontally along the corners of walls or beams to reduce damage
- Heavy-duty flexible compound controls damage to equipment and vehicles saving money

Benefits

- Easy installation
- Maintenance free
- Tough and long-lasting EPDM rubber

Material/Thickness

- 20mm thick at corner x 900mm long

Installation

- Titazel adhesive Thixotropic 2 part Resin with mechanical fasteners

Uses/Applications

- Wide range of uses in industrial and commercial applications to withstand abrasion and jolts
- Provide maximum protection in storage spaces, parking areas and loading docks



LATHAM MARINE FENDERS



MV Doulos

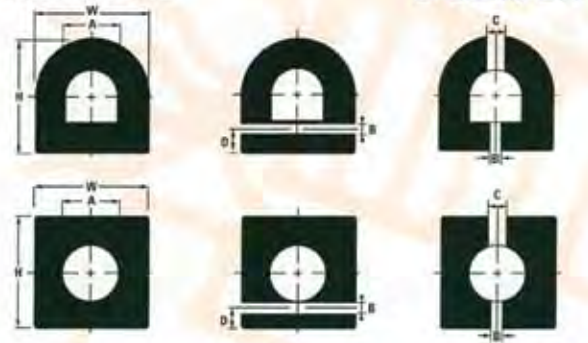
Lying alongside Sydney's International Passenger Terminal the MV Doulos is one of the most unique ships sailing today. Built in 1914, the worlds oldest ocean-going passenger ship, as recorded in the Guinness Book of Records, is staffed by an all volunteer international crew. Fifteen million visitors have been welcomed aboard in 83 countries around the world. The MV Doulos is now operating as the worlds largest floating book fair.

MARINE FENDERS

'D'/SQUARE/WING-TYPE MARINE DOCK BUMPERS

Designed for rigid mounting, 'D'/Square/Wing-Type fenders are ideal as continuous strips on quays, pontoons and driven timber piles. They are also installed on dry docking, tug boats, dredges and work boats. Bumpers are available up to the size of 600mm.

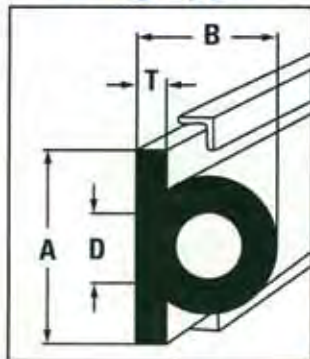
Dimensions



COMMON DIMENSIONS

Item	150 ^{HW}	200 ^{HW}	250 ^{HW}	300 ^{HW}	350 ^{HW}	400 ^{HW}	500 ^{HW}	600 ^{HW}
H=W(mm)	150	200	250	300	350	400	500	600
A(mm)	75	100	125	150	175	200	250	300
B(Ø)(mm)	27	30	33	36	40	45	50	55
C(Ø)(mm)	60	65	75	80	85	95	105	115
D(mm)	30	35	45	55	65	75	95	120
Bolt Size(in)	W ⁷ / ₈	W1	W1 ¹ / ₈	W1 ¹ / ₄	W1 ³ / ₈	W1 ¹ / ₂	W1 ³ / ₄	W2

Wing Type



Wing Type

A x B(mm)	D(mm)	T(mm)	L-ANGLE(mm)
215 x 150	75	40	45 x 45 x 6
280 x 200	100	50	60 x 60 x 8
370 x 250	100	65	75 x 75 x 10
370 x 250	125	65	75 x 75 x 10

CYLINDRICAL FENDERS

Size(mm)	Reaction Force (tons)	Size(mm)	Reaction Force (tons)
150 x 75	7.50	200 x 100	9.50
250 x 125	12.50	300 x 150	14.50
380 x 190	18.50	400 x 200	14.50
450 x 225	22.00	480 x 240	23.50
500 x 250	24.50	530 x 265	26.00
600 x 300	29.50	700 x 350	34.00
800 x 400	39.00	900 x 450	44.00
1000 x 500	49.00	1100 x 550	54.00
1200 x 600	59.00	1300 x 650	64.00
1400 x 700	68.50	1500 x 750	73.50
1600 x 800	78.00	1700 x 850	83.00
1800 x 900	88.00	1900 x 950	93.00
2000 x 1000	98.00		

Cylindrical Fenders are economical and easy to install. Cylindrical Fenders are suitable for vessels of all sizes.

Lathams can offer Cylindrical Fenders ranging from 100mm to 2000mm diameter.



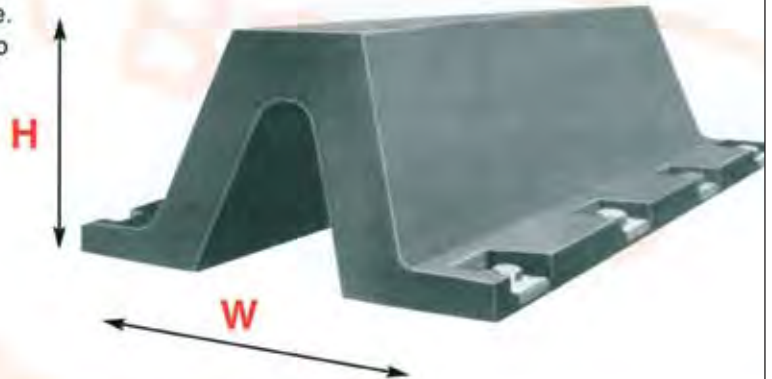
MARINE FENDERS

V-FENDERS

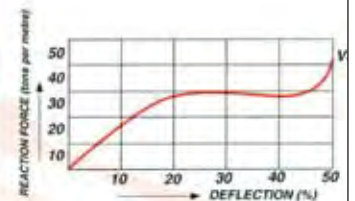
V-Fenders are designed to fit anywhere and in any position; whether it be flat surfaces or rounded corners. V-Fenders are capable of handling vessels from barges to large carriers very safely.

Features

- High energy absorption and low reflection force.
- When compressed the arch shape fenders help reduce concentrated stress.



Dimensions	H(mm)	150	200	250	300	400	500	600	800	1000
	W(mm)	150	200	250	300	400	500	600	800	1000
Reaction Force (tons)	Rated	8.50	11.50	14.00	17.00	22.50	28.00	34.00	45.00	56.00
	Max	11.50	15.50	19.00	23.00	30.50	38.00	45.50	61.00	76.00



- Easy to install fenders at any berthing facility, thanks to the steel mounting plates and open legs.
- A wide range of energy capacities and sizes.
- Metal parts are encapsulated by vulcanised sealing.
- Latham's customise their V-Fenders to clients particular needs.

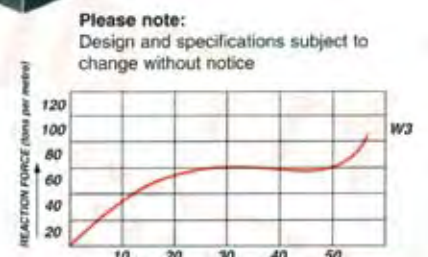
W-FENDERS

Features

- W-Fenders increase the contact area with the vessel, reducing the pressure against the vessel hull.
- W-Fenders can attain a deflection of 50%.
- W-Fenders have a high energy absorption capacity.
- W-Fenders disperse as widely as possible – increasing durability.
- Steel mounting plates and the open legs make it easy to install at berthing facilities.



Dimensions	H(mm)	250	300	400	500	600	800	1000
	W(mm)	250	300	400	500	600	800	1000
Reaction Force (tons)	Rated	15.50	19.00	25.00	31.00	37.00	50.00	62.00
	Max	22.00	25.50	34.00	42.50	51.00	68.00	85.00



- A range of sizes and energy capacity to choose from.
- W-Fenders literally need no maintenance, auxiliary support or piling.
- Vulcanised W-Fenders encapsulated metal parts. Latham's customise there W-Fenders to clients particular needs.

“Quality products engineered and crafted to meet tomorrow’s needs today...”

Over 59 years in the business is proof that we stand behind those words. We customise our products to fit your projects needs. At Latham, we’re dedicated to bringing you the highest quality products at competitive prices. Let us be an integral part of your next project.

WARRANTY POLICY

Latham Australia Pty Ltd warrants to its purchasers that all products sold by it will upon delivery be free from defects in materials and workmanship. This warranty shall extend for a period of one (1) year following the date of shipment by us. Any claim in respect of a defective product must be made in writing prior to the expiration of the warranty period and must give particulars of the alleged defect. Subject to acceptance by us of the claim we agree to make good such defective product by repair or replacement (at our option) at our factory. All other costs whatsoever including the costs of disassembly and reinstallation and the cost of transport to and from our factory if applicable shall be borne by the purchaser.

It is a fundamental condition of sale that all other warranties of any kind whether statutory or otherwise and whether express or implied are hereby excluded and that we accept no responsibility for consequential loss or damage of any kind.

PUBLISHERS NOTE:

All sizes in this publication are shown in millimetres.

The design and other information contained in this publication have been obtained from authoritative sources, which are believed to be correct in regard to the subject matter covered.

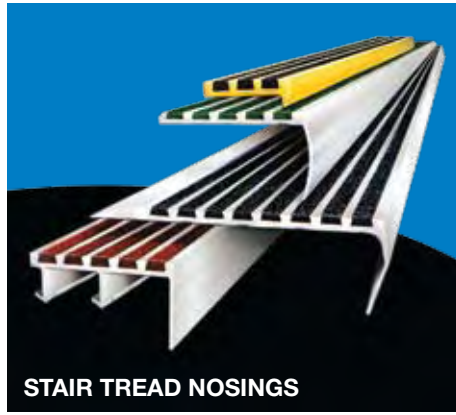
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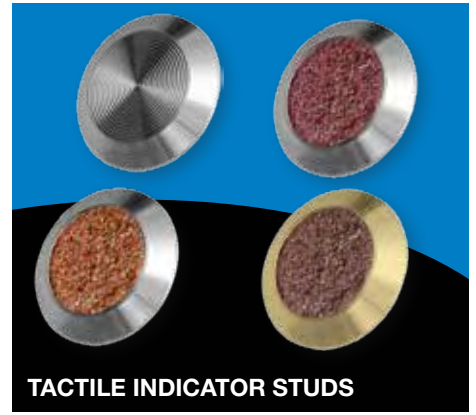
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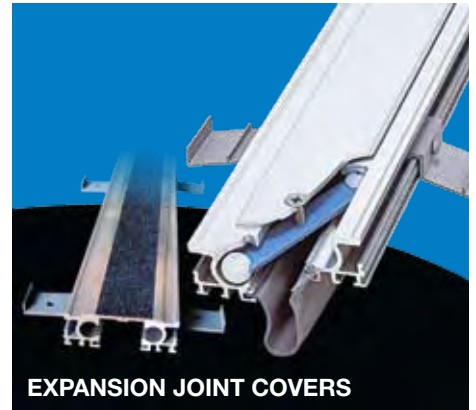
STAIR TREAD NOSINGS



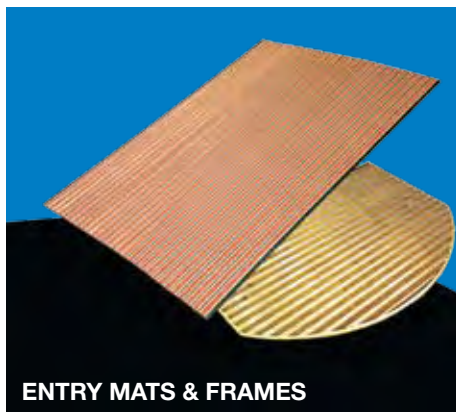
TACTILE INDICATOR STUDS



NEOPRENE EXPANSION LOC & TILE STRIPS



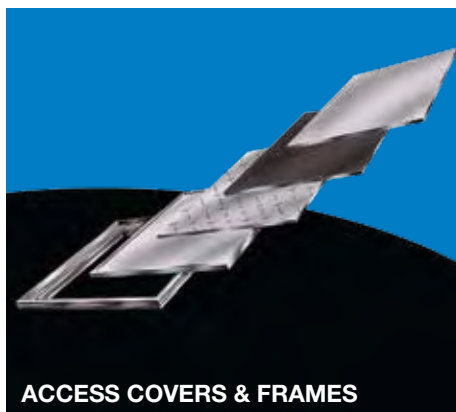
EXPANSION JOINT COVERS



ENTRY MATS & FRAMES



GRATES, GRIDS & FRAMES



ACCESS COVERS & FRAMES



WALL PROTECTION SYSTEMS



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