

# 04 SPEED HUMPS



PO Box 1468 Auburn St. Wollongong NSW 2500  
 Phone: 1300 763 444 Fax: +61 2 4226 2208  
 Email: [sales@spacepac.com.au](mailto:sales@spacepac.com.au) ABN 98 002 454 462  
[WWW.SPACAPAC.COM.AU](http://WWW.SPACAPAC.COM.AU)



When purchasing speed humps, be sure you are meeting your liabilities. The Australian standard AS2890.1:2004 has been very clear about the design, use and intent of speed humps on private property.

Our Slo-motion steel speed humps have been a market leader for over 12 years while our Slo-motion Compliance hump is totally unique to the Australian market and manufactured by us in Australia. Both carry a five year structural guarantee (a world first!) and both, of course, comply with AS2890.1:2004.

You may also be interested in:



01 BOLLARDS & BARRIERS



03 IMPACT ABSORBING



05 VEHICLE & PARKING



08 SAFETY PRODUCTS



## ECONOMY RUBBER SPEED HUMP

This speed hump is an economical alternative to more expensive models. It is ideally suited to low traffic environments such as unit and town house developments or for short term installations.

They are manufactured from a mixture of natural and recycled rubber. When laid in an alternating pattern they conform to AS 2890.1:2004.

Can also be used as a liquid bunding if installed with a sealant, e.g. silastic.

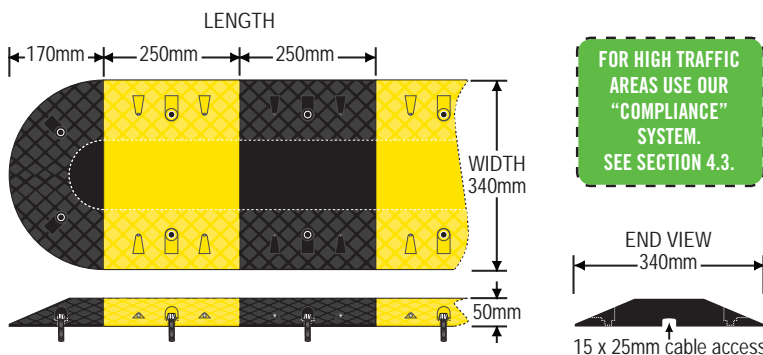


### Value features:

- » Designed to comply with AS 2890.1:2004.
- » Can be used with or without end caps.
- » Comes complete with all fixings.
- » Concealed fixings remain accessible.
- » Built in bridge design to accommodate a cable or hose (when used without end caps).

### Specifications

<b>Description:</b>	Economy Rubber Speed Hump.
<b>Material:</b>	Recycled and Natural rubber.
<b>Length:</b>	Body 250mm (i.e. 4 modules per metre), End 170mm.
<b>Width:</b>	340mm.
<b>Height:</b>	50mm.
<b>Weight:</b>	Body 4kg / End 2kg.
<b>No. of fixings:</b>	2 per body / 4 per pair of ends.



FOR HIGH TRAFFIC AREAS USE OUR "COMPLIANCE" SYSTEM. SEE SECTION 4.3.

PART No.	DESCRIPTION
SME50B	50mm Economy Rubber Black Modules
SME50Y	50mm Economy Rubber Yellow Modules
SME50E	50mm Economy Rubber Black End (pair)

SECTION 4.2

## TRAFFIC CALMING RUBBER SPEED HUMP

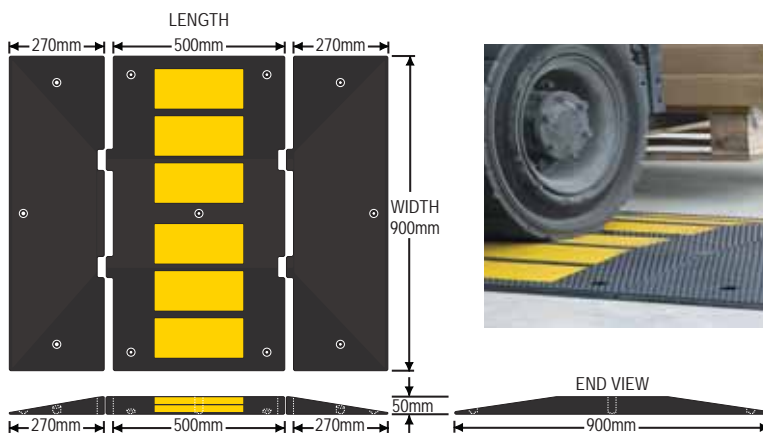
Traffic Calming speed humps are designed for situations where traffic speed needs to be controlled but a traditional speed hump is not suitable.

Smoother approach and departure angles mean a wider range of vehicles can pass over them.

Solid rubber construction means these traffic calmers are capable of handling heavy traffic. Safety yellow anti-slip insert panels increase visibility and improve pedestrian safety.

### Value features:

- » Full load bearing contact area with road surface.
- » Convenient modular system can be configured to any length.
- » All modules supplied with fixings.
- » Concealed fixings remain accessible.
- » Highly shock absorbent rubber is both quiet and smooth in operation.
- » Rubber construction conforms to uneven surfaces.
- » Middle sections fitted with high visibility non-slip panels.



### Specifications

<b>Description:</b>	Traffic calming system using interlocking body and end modules.
<b>Material:</b>	Solid natural and recycled rubber.
<b>Finish:</b>	Moulded black rubber with yellow panels.
<b>Length:</b>	Body 500mm / End 270mm.
<b>Width:</b>	900mm (both Body and End modules).
<b>Height:</b>	50mm.
<b>Weight:</b>	Body 20kg each / End 15.7kg pair.
<b>No. of fixings:</b>	5 per body, 6 per pair of ends (supplied).

PART No.	DESCRIPTION
SMTC900	Traffic Calming – middle 900 x 500mm
SMTC900E	Traffic Calming – ends 900 x 270mm (pair)

### PLEASE NOTE

End caps for the traffic calming rubber speed humps are sold as a male & female pair only.

## RUBBER SPEED CUSHION

Rubber Speed Cushions are made from recycled rubber. Rubber is lighter and easier to work with than asphalt and concrete, significantly minimizing the number of hours that need to be invested to install the solutions.

Rubber pieces can be pulled up and moved without being destroyed. This is convenient for municipalities who want to institute temporary measures to test an area or permanently control traffic speed.

Unlike concrete and asphalt which necessitate frequent and high cost replacement, rubber products are long lasting and cost-efficient.

In addition to long term benefits, rubber products offer a quick, easy way to install solutions when timing is key.

### Value features:

- » Embedded reflective material increases visibility and safety, day or night.
- » All-weather easy maintenance: will not warp, chip, crack, crumble or corrode.
- » Extremely durable: tough enough for heavy traffic.
- » Flexible: conforms to road curvature and any asphalt or concrete surface.
- » Resistant to extreme temperature variations, U.V., oils, moisture and damage.
- » Available as a 4 or 6 panel kit.

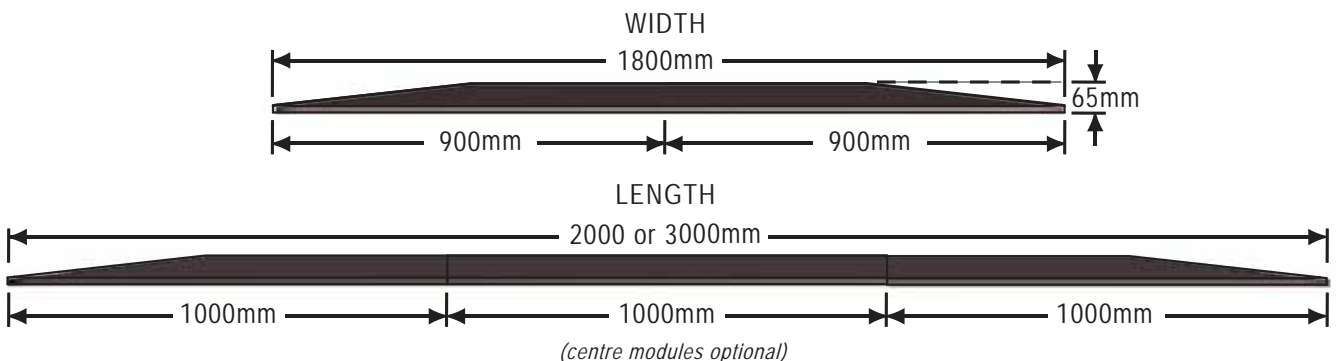
### Specifications:

<b>Description:</b>	Modular rubber speed cushion system.
<b>Material:</b>	Recycled rubber.
<b>Finish:</b>	Black with embedded reflective panels.
<b>Length:</b>	Panels 1000mm. Assembled 2000 or 3000mm.
<b>Width:</b>	Panels 900mm. Assembled 1800mm.
<b>Height:</b>	65mm.
<b>Weight:</b>	Middle module 57kgs Corner module 40kgs Assembled approx. 200 or 300kgs.
<b>Fixings:</b>	Supplied.

PART No.	DESCRIPTION
RSC-R	Rubber speed cushion – right end
RSC-M	Rubber speed cushion – middle
RSC-L	Rubber speed cushion – left end
RSC-KIT4	Rubber speed cushion – 4 panel kit
RSC-KIT6	Rubber speed cushion – 6 panel kit



6 panel kit shown (RSC-KIT6).



## SLO-MOTION COMPLIANCE

Introducing our 'Slo-motion Compliance' speed hump. Compliance is a modular speed control system consisting of independent modules each 250mm long with rounded end caps. Compliance is manufactured from a high tech 'Linear Low Density Polyethylene' (LLDPE) with solid colour. It will not fade, rot, rust or crack and has built-in prismatic reflectors for enhanced night visibility. Suitable for car parks, schools, shopping centres, factory complexes or anywhere it is desired to control the speed of vehicles.

### Finally an Australian company...

has designed, developed and manufactured in Australia a modular composite speed hump to comply with Australian Standards AS2890.1:2004 for local conditions. Compliance carries a five year guarantee against structural failure due to U.V. degradation.

**Slo-motion Compliance is as tough as the Aussie Outback.**

# WARNING

© Barrier Group Pty. Ltd. takes the protection of its intellectual property (IP) seriously and will not hesitate to pursue legal action against any individual, group or organization attempting to steal, copy or duplicate any of its proprietary designs OR anyone who imports, sells or distributes illegal copies or duplicates of its proprietary designs.

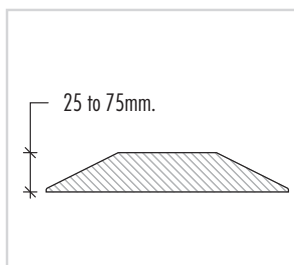
**IT'S AGAINST THE LAW – AVOID THE PAIN!**



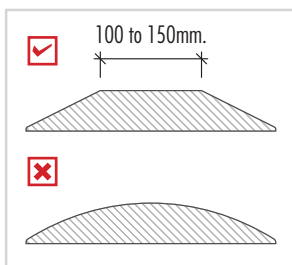
### PLEASE NOTE

The Australian Standard which regulates the design and use of speed humps for use in off-street parking in Australia is 'AS2890.1:2004 parking facilities'. AS2890.1 identifies four main criteria in the design of "type 2" speed humps: height, cross section, ramp angle and markings.

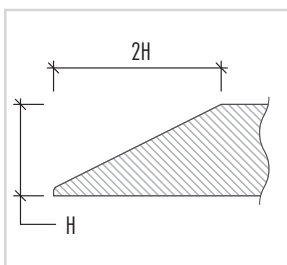
Don't be fooled! Until now very few "type 2" speed humps sold in Australia met these four criteria. Of the non-metal type, most if not all are manufactured overseas from cheap, very poor quality reclaimed materials of variable origin which quickly breakdown, fade or fail under Australian conditions.



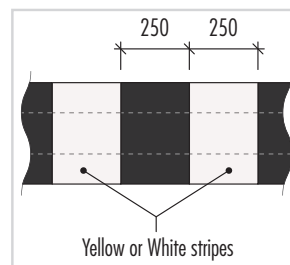
**Height:**  
Must be between 25 & 75mm.



**Cross Section:**  
Must be flat on top.  
Not round or peaked.



**Ramp Angle:**  
Must have a ramp angle 2:1.



**Markings:**  
Must have alternating parallel yellow or white stripes 250mm wide.

## SLO-MOTION COMPLIANCE

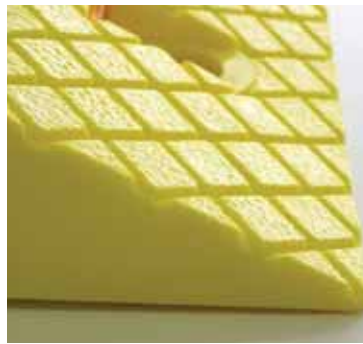
### Value features:

- » Manufactured in Australia to comply with AS2890.1:2004.
- » Solid colour. U.V. stabilised, high tech composite plastic construction.
- » Supplied with fixings ready for installation.
- » Built-in prismatic reflectors for improved night visibility.
- » Slip resistant texture moulded into surface.
- » Built-in cable channel 27 x 30mm.
- » Strengthened mounting points with large diameter load sharing washers.
- » Low noise design suitable for residential areas.
- » Excellent outdoor weathering characteristics
- » **5 Year Structural guarantee\***.
- » Light weight with incredible strength, able to take vehicles, trucks and buses etc.

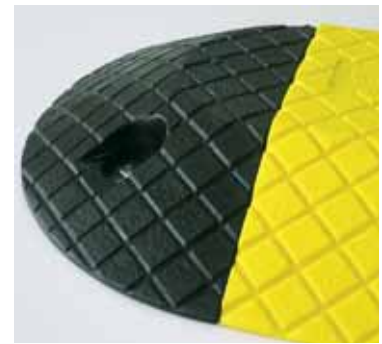
### Specifications:

<b>Description:</b>	Slo-motion Compliance speed control system.
<b>Material:</b>	Injection moulded Linear Low Density Polyethylene (LLDPE).
<b>Finish:</b>	Solid colour (Black or Yellow).
<b>Length:</b>	Body modules – 250mm. End modules – 180mm Radius.
<b>Width:</b>	360mm (In the driving direction).
<b>Height:</b>	60mm.
<b>Ramp Angle:</b>	2:1.
<b>Weight:</b>	Body modules – 1.8kg. End modules – 0.8kg.
<b>No. of fixings:</b>	2 per module (supplied).

PART No.	DESCRIPTION
SMC250Y	250mm body module – Yellow
SMC250B	250mm body module – Black
SMC250E	180mm radius end module – Black (pair)



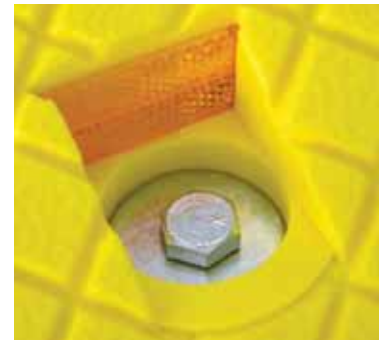
Textured slip resistant surface moulded in.



High tech composite plastics with solid colour.



Designed, developed and manufactured in Australia for local conditions.



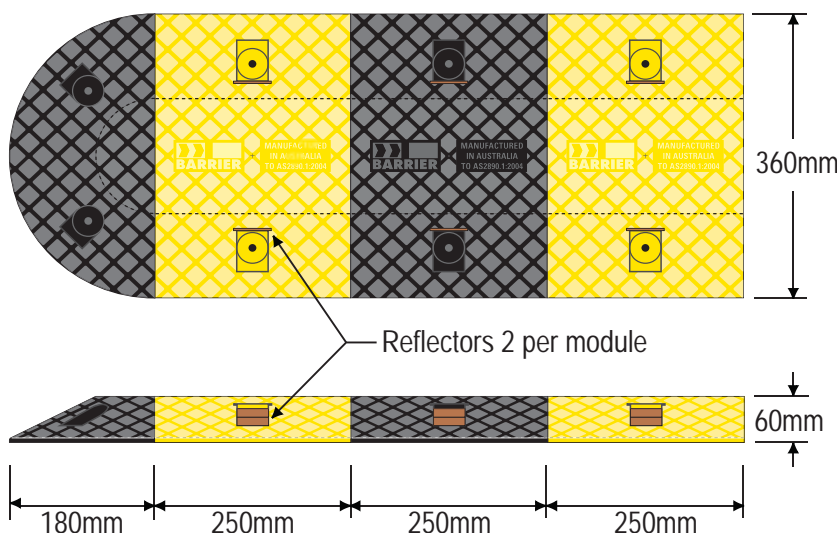
Built-in reflectors and large load sharing mounting points.



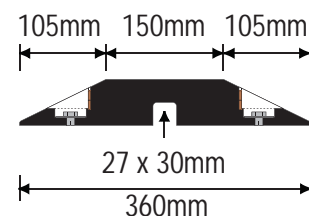
Light weight construction with strength and durability engineered in.



Simple installation with all fixings supplied.



**\* 5 YEAR**  
GUARANTEE AGAINST  
STRUCTURAL FAILURE DUE  
TO U.V. DEGRADATION



## SLO-MOTION STANDARD DUTY STEEL SPEED HUMP

Slo-motion is a modular steel speed control system consisting of truly independent super strong steel modules. The ends of each speed hump are finished off with a pair of end caps.

These end caps are moulded from an extremely durable rubber, or alternatively, steel end caps are also available if preferred. Suitable for car parks, shopping centres or factory complexes.

### Value features:

- » Designed to comply with AS 2890.1:2004.
- » **5 Year Structural guarantee\***.
- » More than 4 times the load bearing contact area with the road surface than competitor's products.
- » Can be used with or without end caps.
- » A choice of either steel or rubber end caps.
- » Comes complete with all fixings.
- » Truly independent modules for easy removal.
- » **Does not require a rubber underlay to prevent rattle.**
- » Concealed fixings remain accessible.
- » Modules have a built in bridge design to accommodate hoses or cables.

### Specifications:

**Top Skin:** 3mm floor plate.

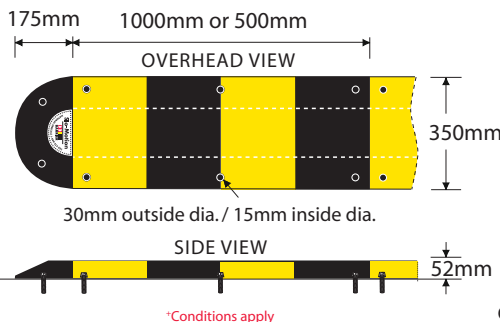
**Length:** 1 metre or 1/2 metre.

**Width:** 350mm.

**Height:** 52mm.

**Weight:** 16.5kgs (9.2kgs for 1/2 metre).  
SMEC – 5.2kgs/pair (rubber).  
SMSEC – 5kgs/pair (steel).

**No. of fixings:** 4 (supplied).



**\* 5 YEAR  
GUARANTEE AGAINST  
STRUCTURAL FAILURE**

SECTION  
Ramp Angle 1:2

Cable or hose access 80x28mm

\*Conditions apply

PART No.	DESCRIPTION
SM1000	1 metre Standard duty
SM500	1/2 metre Standard duty
SMEC	1 pair of end caps (rubber)
SMSEC	1 pair of end caps (steel)
SPIKES	Steel gravel spikes for fixing into loose surfaces 300mm long x 12mm dia.



## THE TRUTH ABOUT STEEL SPEED HUMPS & NOISE

**Q: Is it true that steel speed humps rattle when vehicles cross them, and if they do, why is this the case?**

**A: There are two reasons why metal speed humps may develop rattles.**

- (1) They have been incorrectly installed or installed using fixings that are not suited to the road surface. We use only high end imported compression plug anchors and coach bolts with all our humps. We have found that these compression style plugs allow for a degree of shock take up. Solid fixings such as sleeve anchors have the ability to become loose when the hump settles over time or under load.
- (2) The other major reason metal speed humps come loose and develop rattles is poor design. There is a belief that placing a thick rubber underlay beneath a hump during installation will eliminate rattles.

**WRONG!** Many years of experience has proven that humps requiring rubber underlay as part of their installation in fact act like a cake cutter, destroying the rubber underlay which then leaves the hump loose. If not corrected quickly, loose humps will eventually chop up the road surface before destroying themselves. The Barrier brand Slo-Motion steel speed humps have been designed with large flat pads. (up to 4 times the footprint of competitors products). This large footprint plus multiple fixing points eliminates the need for a rubber underlay and reduces the risk of humps working loose, thereby eliminating noise.

## SLO-MOTION HEAVY DUTY STEEL SPEED HUMP

Slo-motion Heavy Duty is the modular steel speed control system for seriously heavy vehicle applications (including 'B'-Doubles).

Perfectly suited to transport depots, factories and terminals etc. Our super strong chassis construction with 6mm floor plate and 6 bolt fixing make our Slo-Motion Heavy Duty virtually indestructible.

### Value Features:

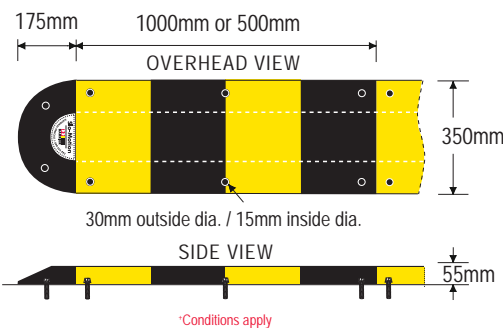
- » Designed to comply with AS 2890.1:2004.
- » **5 Year Structural guarantee\***.
- » More than 4 times the load bearing contact area with the road surface than competitor's products.
- » Use with or without end caps.
- » A choice of either steel or rubber end caps.
- » Comes complete with all fixings.
- » Truly independent modules for easy removal.
- » **Does not require a rubber underlay to prevent rattle.**
- » Concealed fixings remain accessible.
- » Modules have a built in bridge design to accommodate hoses or cables.

### Specifications:

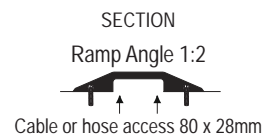
<b>Top Skin:</b>	6mm floor plate.
<b>Length:</b>	1 metre or 1/2 metre.
<b>Width:</b>	350mm.
<b>Height:</b>	55mm.
<b>Weight:</b>	24.5kgs (13kgs for 1/2 metre). SMEC – 5.2kgs/pair. SMSEC – 5kgs/pair.
<b>No. of fixings:</b>	6 (supplied).



PART No.	DESCRIPTION
SM1000HD	1 metre Heavy duty
SM500HD	1/2 metre Heavy duty
SMEC	1 pair of end caps (rubber)
SMSEC	1 pair of end caps (steel)
SPIKES	Steel gravel spikes for fixing into loose surfaces 300mm long x 12mm dia.



**\*5 YEAR**  
GUARANTEE AGAINST  
STRUCTURAL FAILURE



### 5 YEAR STRUCTURAL GUARANTEE

Both our Slo-motion Compliance and Slo-motion steel speed humps are covered by a 5 Year replacement guarantee. This guarantee is limited to structural failure i.e. we warrant these speed humps against collapse or manufacturing defects for a period of 5 years from the date of Barrier's original invoice. Barrier will at its discretion supply replacement modules to replace those deemed faulty or failed. This guarantee does not cover installation (either original or replacement), vandalism, incorrect installation or usage beyond the recommended parameters. In the case of Slo-motion Compliance with solid colour, Barrier will also warrant against substantial fading or U.V. degradation for a period of 5 years. This guarantee is between Barrier Group Pty. Ltd. and the original purchaser and does not extend to 3rd parties.

## SPEED HUMPS

### Installation Procedure (all models):

1. Using a chalk line, set out and position speed humps in their desired location. With a 10mm drill bit and impact drill, pilot drill the mounting holes for each module. (PHOTOS 1 & 2).
2. Move the modules to one side and drill piloted holes with a 14mm drill bit 100mm deep. Clean dust from holes, insert the plastic Hilti plugs supplied and hammer flush with road surface. A little grease or oil on the screw threads will make them easier to tighten. (PHOTOS 3 & 4).
3. Reposition the speed hump modules over holes and insert fixings making sure to use the washers supplied. (PHOTO 5).
4. Using an appropriate size socket wrench or impact driver tighten fixings. (PHOTO 6).
5. Clean the site to complete your installation. (PHOTO 7).
6. Go over completed installation and tighten all connections.

### Notes:

- To achieve long, straight lines use a string or chalk line.
- On completion, check all fixings are tight.
- Always use personal protective equipment when using power tools.
- Always position humps at least 100mm clear of expansion gaps in the road surface. (PHOTO 7).



1.



2.



3.



4.



5.



6.



7.



8. Standard fixings supplied



### WHAT YOU WILL NEED

- Tape measure and string line.
- Impact drill and masonry bits.
- Socket wrench or impact driver.
- Can of lubricant.
- Hammer or mallet.
- Personal protective equipment.



**AUSTRALIAN STANDARD FOR SPEED HUMPS TYPE 2: AS 2890.1:2004**

The speed humps depicted on these pages generally conform with the Australian standards description of a type 2 hump and should be used as stated by the standard as follows.

**TYPE 2:** Appropriate for use in relatively confined areas or covered and multi-storey car parks, where it is desired to further check the speed of vehicles, mostly travelling at 30 km/h or less.

Road humps shall be spaced at no less than 10m for Type 2, along any one aisle or roadway.

Maximum spacing where required to control speeds continuously along a roadway should be about 50m. Humps should be located clear of intersections and curved road ways.

Humps shall not impede pedestrian or wheelchair traffic on any accessible travel path provided for people with disabilities.

**NOTE:** An accessible path of travel needs to be a minimum of 1m wide.

**CASE STUDY**

A high volume concrete batching plant in Victoria had a competitor's steel speed humps in place that had failed miserably after a relatively short time (see inset photo). They had to be capable of handling constant, very heavy concrete tankers and trucks at a very demanding site.

We were contacted and asked if we could provide a solution. When we suggested our injection moulded polyethylene Slo-motion Compliance hump the client said 'No Way!'. But when we assured him that they were easily up to the job, and we would guarantee them for 5 years he agreed to give them a go. This photo and the inset close up were taken 1 year after the installation. The Compliance Speed Humps have been subjected to the harshest possible treatment on a daily basis without any visible signs of distress, cracks, fading or movement. And for way less than the cost of the original steel humps we replaced. The customer is very, very happy with the outcome!

**Slo-motion Compliance – as tough as the Aussie outback!**  
(See Section 4.3).



Compliance after 1 year.

Failed competitor steel.

**SECTION 4.6**



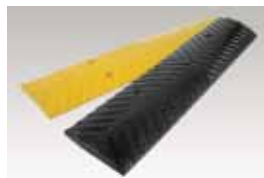
**RUMBLE STRIP**

A durable and versatile rubber rumble strip for use as a speed moderator or lane divider on roadways. Ideal in residential complexes to slow the flow of vehicles. Alternatively, it can be used as a wall mounted bump protector.

Manufactured from recycled rubber, 500mm long x 100mm wide x 15mm thick. Can be installed with appropriate masonry fixings or glued using a suitable adhesive.

**Value features:**

- » Encourages safer driving speeds.
- » Highly flexible rubber construction.
- » Low profile for pedestrian safety.
- » Suitable for heavy traffic.
- » Skid resistant surface.



Rumble strip – a speed moderator or lane divider.

PART No.	DESCRIPTION
RS500-B	Rubber rumble strip – 500mm (Black)
RS500-Y	Rubber rumble strip – 500mm (Yellow)

**SPEED HUMPS**

# LEGEND



## AUSTRALIAN CONTENT

This product has been designed, developed and is either completely or substantially manufactured in Australia. (The minimum Australian content is between 50 and 100%).



## NEW AND UNIQUE

This is a new and unique product. It has either been designed, developed and manufactured by the Barrier Group Pty. Ltd. or it is being seen here for the first time.



## 100% RECYCLABLE

This product is manufactured from virgin grade raw materials and is 100% recyclable using existing, readily available recycling technology and services.



## RECYCLED MATERIALS

This product has been manufactured from either a combination of recycled materials and virgin grade materials or entirely from recycled materials.



## HOT DIP GALVANISED

This product has been hot dip galvanised prior to any surface coatings being applied. Hot dip galvanised offers vastly improved corrosion protection and extended life in harsh environments.



## FIXINGS INCLUDED

This product comes complete with all the necessary fixings to complete the standard installation. When comparing competitors prices against our own, always ensure they have included the fixings with the product (excludes gravel spikes).



## 5 YEAR WARRANTY

This product carries a 5 year limited warranty against structural failure due to faulty materials or workmanship in our manufactured products, OR structural failure and major fading due to U.V. degradation in our injection moulded products.

(For full conditions visit [www.barriergroup.com.au](http://www.barriergroup.com.au)).

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