

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.

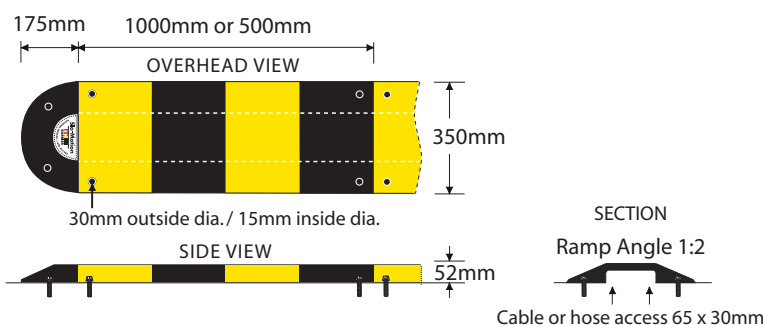
These end caps are moulded from an extremely durable rubber, or alternatively, steel end caps are also available if preferred. Suitable for car parks, shopping centres or factory complexes.

Value features:

- » Designed to comply with AS2890.1:2004.
- » 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).



PART No.	DESCRIPTION
SM1000	Slo-motion standard duty steel speed hump – 1.0 metre
SM500	Slo-motion standard duty steel speed hump – 0.5 metre
SMEC	Rubber end caps – 1 pair
SMSEC	Steel end caps – 1 pair
SPIKES	Optional steel gravel spikes for fixing into loose surfaces – 300 x 12mm each

AWARENESS SIGN KIT – Speed humps

A prepackaged sign kit for use with speed hump installations. The kit allows for an economical alternative to purchasing all the components separately. It comprises the necessary sign, brackets and post to complete the installation. Alternatively, all components are available individually.

PART No.	DESCRIPTION
BSHKIT	Complete speed hump sign kit
S1000-RA	Speed Hump sign – class 1 reflective 600 x 600mm
SP2800	Galvanised sign post – 2800 x 60mm
SPB1	Single sided sign bracket (requires 2)
CAP60	Galvanised post cap to suit 60mm sign post



BSHKIT – Single sided speed hump sign kit.

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.

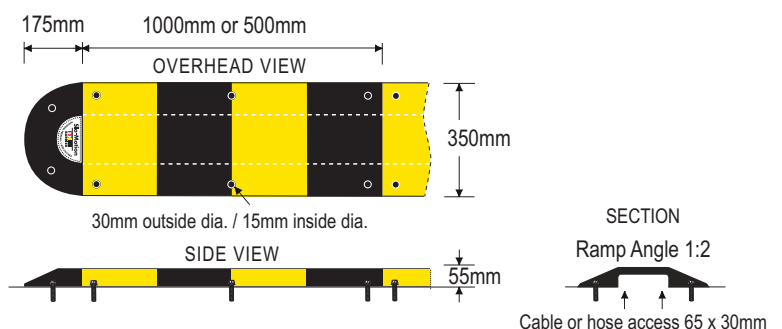
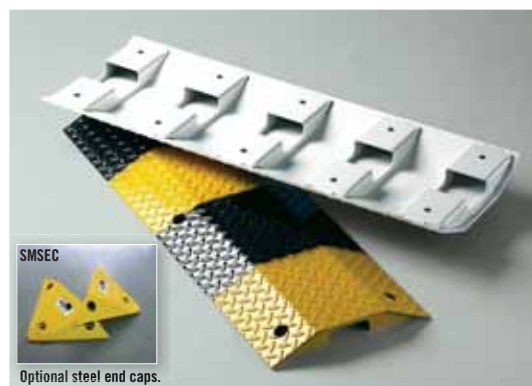
Value Features:

- » Designed to comply with AS2890.1:2004.
- » 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:

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



PART No.	DESCRIPTION
SM1000HD	Slo-motion heavy duty steel speed hump – 1.0 metre
SM500HD	Slo-motion heavy duty steel speed hump – 0.5 metre
SMEC	Rubber end caps – 1 pair
SMSEC	Steel end caps – 1 pair
SPIKES	Optional steel gravel spikes for fixing into loose surfaces – 300 x 12mm each

SPEED HUMP SELECTION CHART

AUSTRALIAN STANDARDS FOR SPEED HUMPS-AS2890.1:2004 The speed humps in this table have all been designed to comply fully with the requirements of "type 2" speed humps as set out in AS2890.1:2004 (see page 56 for design details)	SM1000HD Slo-Motion Heavy Steel	SM1000 Slo-Motion Standard Steel	SMC250 Slo-Motion Compliance	SME50 Economy Rubber 50mm
WHEN ORDERING SPEED HUMPS ALWAYS SPECIFY THE TYPE AND CONDITION OF THE ROAD SURFACE WHERE THEY ARE TO BE INSTALLED				
Designed to comply with AS2890.1:2004 'type 2' speed humps	Yes	Yes	Yes	Yes
Performance rating	Extra Heavy	Heavy	Extra Heavy	Medium
Maximum recommended load per axle	20 tonnes	10 tonnes	20 tonnes	5 tonnes
Suitable for constant heavy vehicle traffic (Incl. truck & bus)	Yes	No	Yes	No
Suitable for high volume car and some truck traffic	Yes	Yes	Yes	No
Suitable for low volume car traffic or short term use	Yes	Yes	Yes	Yes
Made from materials that are readily recyclable	Yes	Yes	Yes	No
Material (body modules)	Fabricated steel	Fabricated steel	Polyethylene	Recycled rubber
Resistance to fading over 3 years	Good	Good	Excellent	Poor
Weight per metre (kgs)	24.5kgs	16.5kgs	7.2kgs	16kgs
End caps (sold in pairs)	Steel	Rubber or steel	Polyethylene	Recycled rubber
Fixings per metre	6	4	8	8
Fixings supplied (M10 x 90mm coach bolts with Hilti plugs)	Yes	Yes	Yes	Yes
Concrete screw bolts available	Optional	Optional	Optional	Optional
Gravel spikes available (300mm)	Optional	Optional	Optional	Optional
Width of hump (direction of travel)	350mm	350mm	360mm	340mm
Height of hump	55mm	52mm	60mm	50mm
No. of modules per metre	1 x 1m	1 x 1m	4 x 250mm	4 x 250mm
500mm modules available	Yes	Yes	N/A	N/A
Note: This table is intended as a guide only to assist in selection. It is the purchaser's responsibility to determine the suitability for their intended use.				

FREQUENTLY ASKED QUESTIONS

1. Where can 'type 2' speed humps like these be used?

Type 2 speed humps as described in AS2890.1:2004 are appropriate for use on private property 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.

2. How far apart should speed humps be positioned?

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

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

3. What about pedestrians and speed humps?

Humps shall not impede pedestrian or wheelchair traffic on any accessible travel path provided for people with disabilities. An accessible path of travel needs to be a minimum of 1 metre wide.

4. I've seen some rubber speed humps that are round on top. Do these comply with the standards?

No, AS2890.1:2004 clearly states that "type 2" speed humps should be flat on top with a ramp angle of 2:1 on both sides. See page 56 of this catalogue for a clearer explanation of the design requirements of AS2890.1:2004.

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

(1) They have been incorrectly installed or installed using fixings that are not suited to the road surface.

OR

(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. 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 eliminates the need for a rubber underlay and reduces the risk of humps working loose, thereby eliminating noise.

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.

LEGEND



PROPRIETARY DESIGN

This product has been fully designed and developed by Barrier Group. It is a proprietary product of Barrier Group Pty. Ltd. and protected by copyright.



FREE END OF LIFE RECYCLING

Return this product to Barrier Group for free recycling rather than dumping into landfill.



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).

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!