

Application

Hercules Shearstrip (HSS) has been developed to fill the need for a reliable, economical bearing strip under short span cast concrete slabs (see Fig 1-3). It is designed to centralise loads and accomodate very small movements.

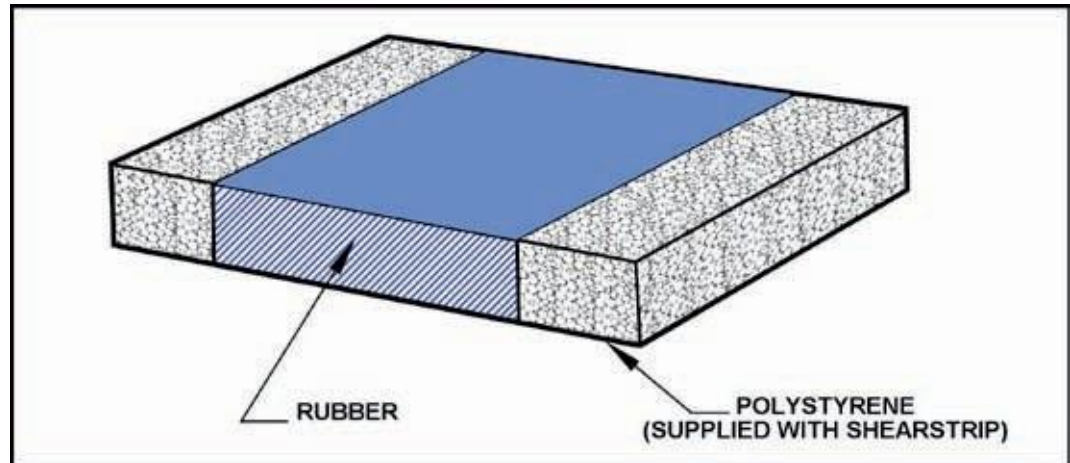


Fig 1-3 Hercules Shearstrip

Materials

HSS consists of a natural rubber strip blocked out either side with expanded polystyrene spacer strips taped top and bottom with adhesive tape.

Types

Six basic types of *HSS* are available as detailed in Table 1-3. Each of these types can be provided in a variety of overall widths (see Table 1-4).

Table 1-3 Types of Hercules Shearstrip

Type	Thickness	Rubber Width (mm)	Max. Working Load (kN/m)	Max. Rotation (rads)	Shear Capacity (\pm mm)
HSS/1	6	25	100	0.046	2.0
HSS/2	6	50	200	0.033	2.0
HSS/3	6	75	300	0.020	2.0
HSS/4	6	100	400	0.013	2.0
HSS/5	6	125	500	0.010	2.0
HSS/6	6	150	600	0.008	2.0

Design

The design limitations detailed in Table 1-3 are recommended.

Installation

HSS should be installed as shown in Fig 1-4 and in accordance with the following instructions:

1. Prepare the concrete seating brick or blockwork with a wood float mortar finish so that it is reasonably level over the complete length of the strip. A metre straight edge should show no more than 3 mm variation in level along its length.
2. Lay the *HSS* in position and cut mitre joints where the strip changes direction (this can be done using a sharp knife).
3. Hold the *HSS* in position with *Hercules Adhesive* and mask the butt joints with adhesive tape, ensuring that there are no concrete *shorts*.

NOTE

***Hercules Adhesive* is available in 300 gram cartridges. Each cartridge will provide enough adhesive to cover 25 metres of strip.**

4. Pour concrete, taking care not to damage the shearstrip. Direct blows with shovels, footwear or vibrators should be avoided. Tape over any damaged polystyrene.

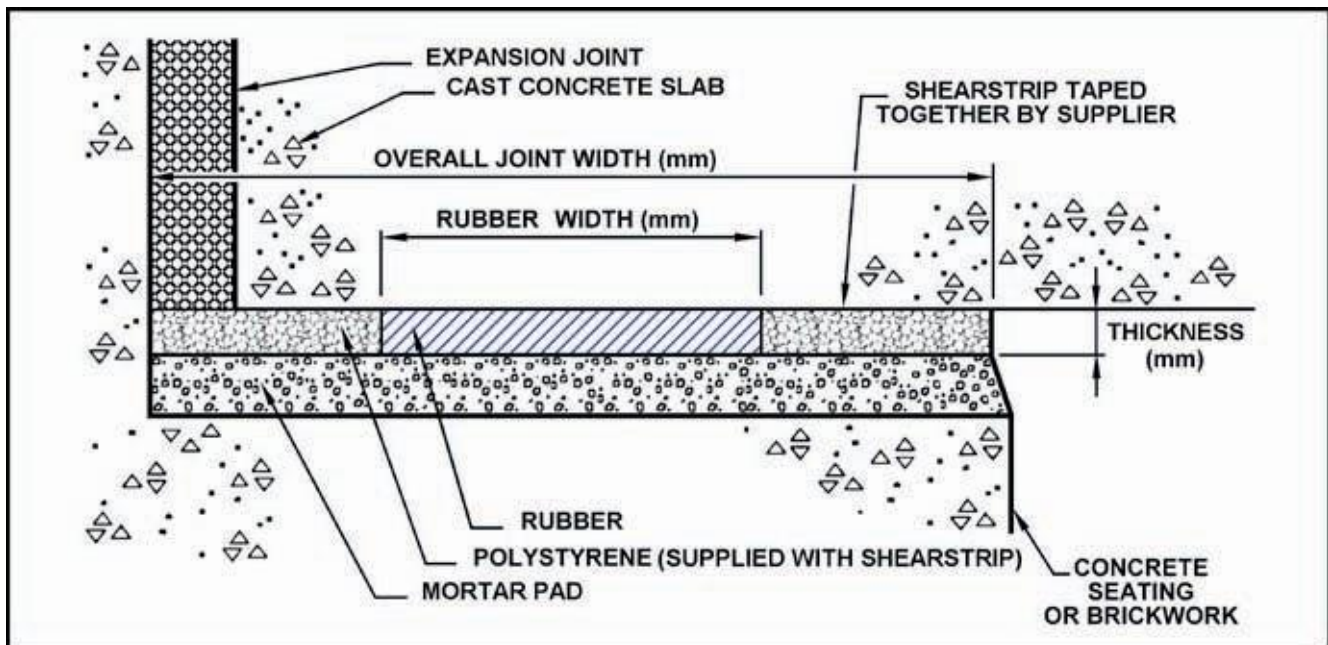


Fig 1-4 Installation of Hercules Shearstrip

Ordering

Table 1-4 details the types and sizes of *HSS*. The part number is made up as follows:

HSS/1/130 which equates to:

HSS - *Hercules Shearstrip*

1 - *Hercules Shearstrip* type

130 - Overall joint width (mm)

Table 1-4 Part Numbers for Hercules Shearstrip (Other widths available)

Type	Overall Joint Width (mm)	Part No.	Type	Overall Joint Width (mm)	Part No.
HSS/1	75	HSS/1/75	HSS/2	100	HSS/2/100
	85	HSS/1/85		110	HSS/2/110
	100	HSS/1/100		130	HSS/2/130
	110	HSS/1/110		150	HSS/2/150
	130	HSS/1/130		180	HSS/2/180
	150	HSS/1/150		200	HSS/2/200
	180	HSS/1/180		230	HSS/2/230
	200	HSS/1/200		250	HSS/2/250
	230	HSS/1/230		270	HSS/2/270
HSS/3	130	HSS/3/130	HSS/4	150	HSS/4/150
	150	HSS/3/150		180	HSS/4/180
	180	HSS/3/180		200	HSS/4/200
	200	HSS/3/200		230	HSS/4/230
	230	HSS/3/230		250	HSS/4/250
	250	HSS/3/250		300	HSS/4/300
	300	HSS/3/300		350	HSS/4/350
	350	HSS/3/350		400	HSS/4/400
HSS/5	180	HSS/5/180	HSS/6	180	HSS/6/180
	200	HSS/5/200		200	HSS/6/200
	230	HSS/5/230		230	HSS/6/230
	250	HSS/5/250		250	HSS/6/250
	300	HSS/5/300		300	HSS/6/300
	350	HSS/5/350		350	HSS/6/350
	400	HSS/5/400		400	HSS/6/400