



ADI Supply Ltd
Units 16-17 Meeting Lane Industrial Estate
Off Station Drive, Brierley Hill
West Midlands. DY5 3LB
Tel: 01384 483657
Fax: 01384 483663
sales@adisupply.co.uk
www.adisupply.co.uk

Technical Data Sheet

Temporary Works Loads



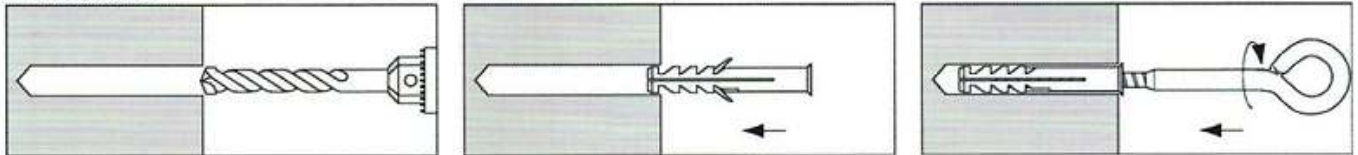
Product Designation	: SCE restraint eye
Type	: Eye type screw with 12mm diameter shaft & 23 or 50mm id
Material	: Carbon Steel Bar
Finish	: Bright Zinc Plated (Thickness 5~7 Microns)

A light to standard duty through fixing used predominantly in the Scaffold & Access market to secure scaffolding, cables, chains, ladders, etc. Can be used in conjunction with a variety of 14mm nylon plugs for applications in concrete, solid bricks, hollow bricks, perforated bricks, aircrete, blocks, etc and also in timber (without plug).

Installation instruction:

In masonry, drill hole to the correct diameter and depth to suit the nylon plug you are using. To achieve maximum load bearing capacity, the nylon fixings can only be used once and the screw must be set to the correct installation depth, according to the markings on the shaft of the screw. In timber applications we recommend an 8mm pilot hole to be drilled to aid insertion and avoid splitting.

Installation



MAXIMUM Recommended Tensile Loads

FIXING TYPE	BASE MATERIAL				
	C20/25 Conc. 30 N/mm ²	Eng. Brick 70 N/mm ²	Fletton 20 N/mm ²	Butterfly 20 N/mm ²	C16 Eng. Timber
SCE Eye in 75mm Nylon Plug	5.0	3.5	2.6	2.6	X
SCE Eye in 100mm Nylon Plug	6.6	5	2.6	2.6	X
SCE Eye direct in timber	X	X	X	X	4.0

Safety Factor of 3 from Mean Ultimate Tensile Loads

Values for guidance only. These materials require preliminary tests to be performed in accordance with TG4:11, TG20:13, BS8539.



Registered in the UK
05002500

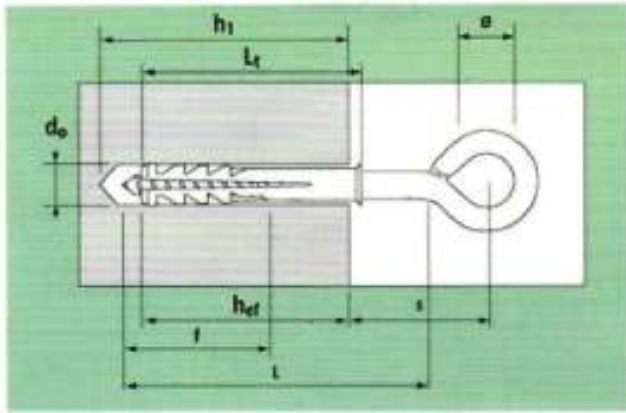
SCE Restraint Eye Tech Data

10th June 2016 Rev 5.0
Page 1 of 2





Dimensional Data



d_0 = plug diameter = hole diameter
 L_1 = plug length
 h_1 = minimum hole depth
 h_{nom} = overall embedment depth
 h_{1ef} = effective anchorage depth
 d = eyebolt shank diameter
 L = eyebolt length
 f = thread length
 s = projection
 $\varnothing$ = eyebolt diameter

$$h_{nom} = h_{1ef} = L_1$$

Code	Size	d	L	f	s	Internal Eye $\varnothing$	Stand-off from base	
							75mm plug	100mm plug
SCE12090	12x90	12	90	65	115	23	10	n/a
SCE12120	12x120		120		145		40	15
SCE12160	12x160		160		185		80	55
SCE12190	12x190		190		215		110	85
SCE12230	12x230		230		255		150	125
SCE12300	12x300		300		325		220	195
SCE12350	12x350		350		375		270	245
SCE12400	12x400		400		425		320	295
SCE12500	12x500		500		525		420	395

SCE1214550	12x145	12	145	65	185	50	65	40
SCE1216050	12x160		160		200		80	55
SCE1220050	12x200		200		240		120	95

All dimensions in mm unless otherwise shown

Compression Loads

The ADI range of SCE restraint eyes have been independently tested to mode of failure = buckling.

Mean ultimate compression loads are as follows:

Direct load, eye only, to 35kN

Direct load with hook coupler, to 33kN

Angled load with hook coupler, to 26kN

The Mean Ultimate Tensile strength of the welded eye is in excess of 40kN



Registered in the UK
05002500

SCE Restraint Eye Tech Data

