

The Worlds Most Accurate Screed Rail System

Acra Screed Ltd,
Pendle View Farm, Skipton, North Yorkshire, BD23 4SJ
t: +44 1729 840000 - f: +44 1729 840033 - e:
info@acrascreed.com
www.acrascreed.com



Acra Screed is a Patented Product

Acra Screed Plug System

Product Overview

The Acra Screed plug System, is an Adjustable Screed Rail system to assist in the accurate placement of concrete to defined levels and is suitable for level and multiple cross fall applications. The strength and stability of the system accommodates power screeds. Acra Plug is used for refurbishment of existing concrete and structural toppings. It is **important** to note that as the Acra Plug system is inserted into the existing concrete slab, the expansion system of the existing slab would need to be transferred into the overlaid concrete to avoid cracking due to the natural contraction and expansion of the concrete. If this is not possible then our suggestion is to use a barrier such as a polythene membrane between the slabs and for the Acra Screed Base block system to be used, this will allow the upper slab to move independently of the existing concrete below.

Component 1 - The Plugs



There are two plugs as shown in the image to the left. The small plug is used for depths up to 75mm and the large plug for slabs of greater depths above 75mm. A hole is drilled into the existing concrete and we suggest spacings are 1 meter apart. The small plug requires a 12mm hole and the large plug a 22mm diameter hole. The depth of the whole drilled determines the adjustment range during set up.

Component 2- The Rail Support

Rail Support Head Variations



Single Rail Support -
Welded to Stud



Double Rail Support -
Welded to Stud



The New Rail Support heads - Single and Double heads are connected to a round stud connector. The benefits of this new system is that any length of 10mm Stud can now be connected into the Rail Support, which in turn gives the user greater flexibility and no unnecessary waste.

The New Rail Support heads are only suitable for slabs of 200mm in depth upwards.



Single Rail Support Head showing insert for stud. 10mm Stud shown to the right.

Stock carried as standard for slabs up to 300mm. Pre order required for depths above 300mm.



The Rail Support examples given above accommodate 8mm x 40mm and 8mm x 50mm Rail. A further head is available to accommodate a 12mm x 30mm Rail when required. Please note that the 12mm Rail supports are made to order.

The Rail Support will give an adjustment range, in general of 50mm, 25mm either side of finished level. This can then be tweaked to within half a millimetre of the required level.

When using the Base Block System the minimum concrete depth is 90mm, the maximum depth supplied to date was 1.6 metres, using a hand tamp.

The Double rail support is used where two lengths of rail meet - the rail comes in standard lengths of 6 metres, therefore a Double rail Support is required every 6 metres.

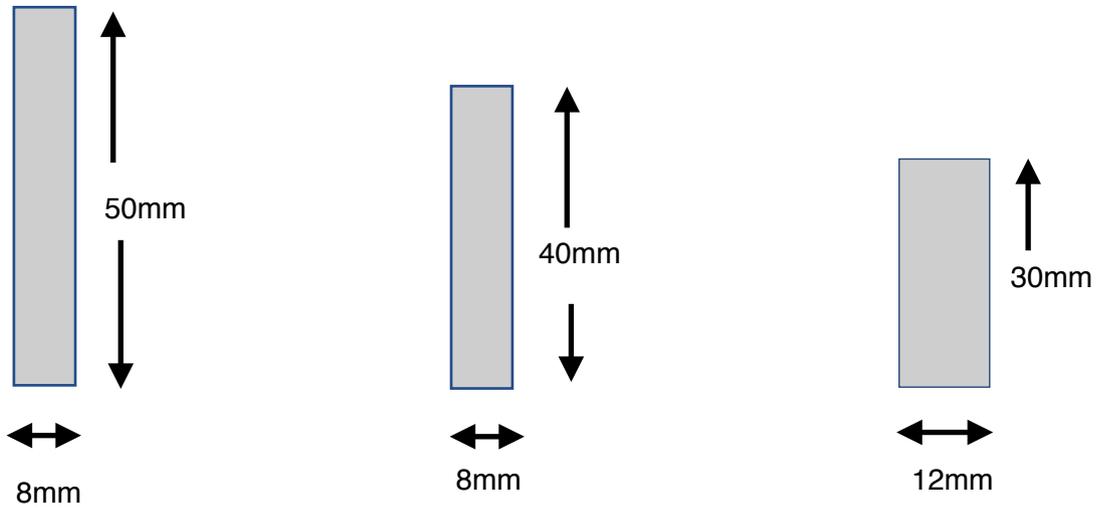
Component 3 - The Rail

The Rail is placed into the rail support as it is for the other Acra Screed systems.



Sizes

The Rail is placed into the rail support as it is for the other Acra Screed systems



Rail variations given above. The Rail is reusable. Above photograph gives example of a rail been moved during concrete pour to new position into pre set Rail Supports.

Rail Supports for 8mm Rail carried as standard stock.

Rail Supports for 12mm Rail manufactured to order.

IMPORTANT

As pointed out in the product overview - as the Acra Plug system creates a connection to the existing concrete slab below, it is important that the expansion system of the lower slab is followed into the top slab in order to prevent cracking due to differing expansion between the lower and upper slab. If it is not possible to do this our suggestion is to create a barrier between each slab and use the Acra Screed ground system which is not connected to the lower slab.

Acra Screed recommends that one unit is positioned every meter along the screed rail line. To make the concrete pour comfortable for those laying the concrete, Acra Screed recommends positioning the Screed Rail - 400mm less than the power screed or hand tamp to be used.

For example a 4.2 meter Roller Striker - screed rail positioned every 3.8 meters apart, allowing 200mm overhang either side of the screed rail.

On the home page of the Acra Screed web site www.acrascreed.com there are two videos. The bottom video shows the Acra Screed system been set up, the top video shows a concrete pour. Watching this video is highly recommended for those new to the product.

As Standard a set up information sheet is supplied with all orders. The system is very straightforward and easy to set up, as can be seen in the videos.

Acra Screed offer exceptional back up and technical support should you have any questions.

The information provided within this data sheet is approximate. Acra Screed Ltd reserves the right to amend this data sheet at any time. For further details, please contact Acra Screed Ltd
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Component	Material	Additional Information	By Request
Plug Small	Mild Steel Zinc coated.	10mm internal thread	size
Large Plug	Galvanised mild steel tube.	Punch Formed	size
Rail Supports	S275 BS EN 10025.S275 - Bright zinc plated or Self coloured.	Precision cut by Laser	Rail Support head type
Stud	Grade 4.8 Mild Steel metric fine (1.25mm)	Various lengths	Depth required
Rail	Black flat rail BSEN 10025-2:2004 S275JR	30mm x 12mm 40mm x 8mm 50mm x 8mm	