

The Richard Burbidge Classic Metal baluster system (**Fig.1**) is suitable as a horizontal balustrade for use on ground level and up to 600mm above ground level decks.

The system has been independently tested by FIRA and when installed in accordance with these instructions conforms with Building Regulations for balustrades at 900mm high and 0.36kN/m domestic loadings.

FIRA structural test reports TREL31618 Rail with metal balusters @ 2400mm Horizontal applications only.

Before commencing your installation please read all of the instructions carefully.

Detailed instructions for planning and deck building can be found in the Richard Burbidge "The Details" and on our website www.richardburbidge.com.

Should you have any enquiries regarding installing the Classic metal baluster system or deck building in general please contact our technical support team on 01691 678212.

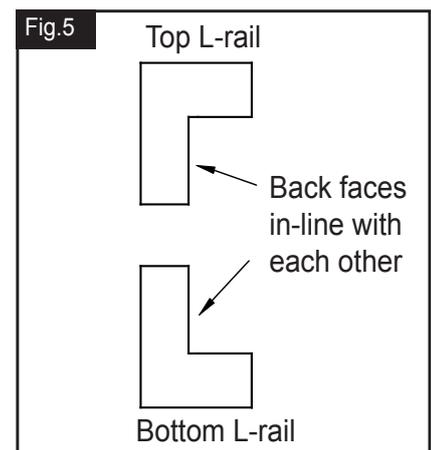
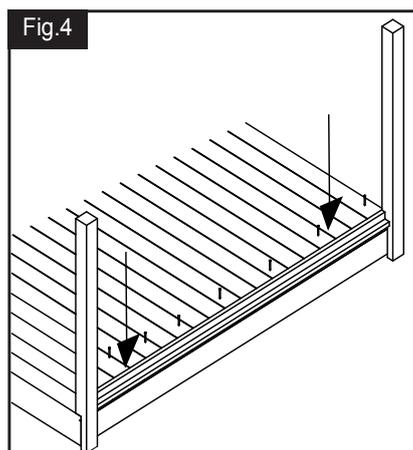
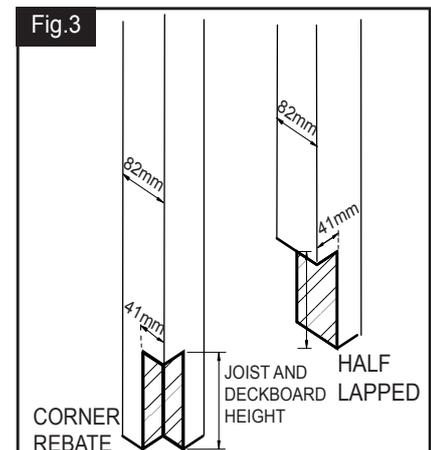
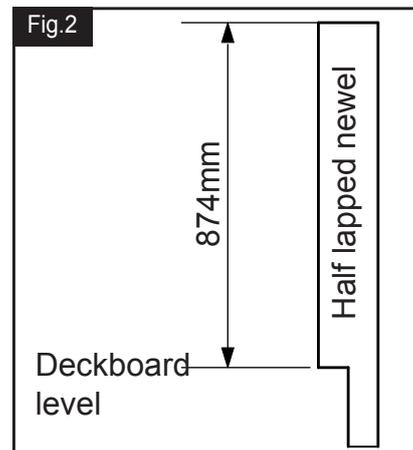
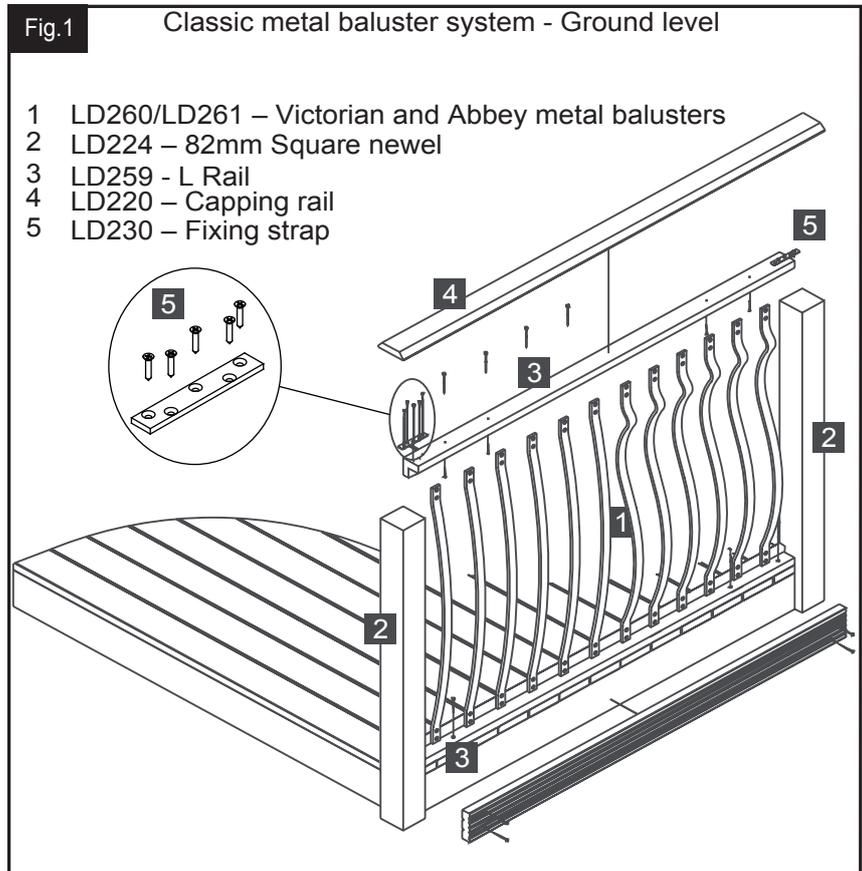
Fitting the balustrades

Establish how many Square Newels will be used for the installation ensuring that the maximum span between the centres of the newels does not exceed 2400mm. Cut your newels to the length required, making sure you have 874mm from the top of the deckboard to the top of the newel (**Fig.2**).

Attach the Square Newels to the joists using Richard Burbidge 100mm Landscape Screws. Square Newels can be fixed to either the inside or outside of the joists. Where possible fix the Square Newels so that two faces can be secured through two joists at 90°. If the newels are to be fixed to the outside face of the joists then they should be half lapped, or rebated for those newels used on corners (**Fig. 3**).

Cut the L-rails to length and seal the cut ends using a proprietary end seal. Fix the L-rail to the top of the deckboards, centrally to the newels, using Richard Burbidge 63mm Ceramic Galvanised screws (**Fig. 4**).

To fix the top L-rail, First make sure it is positioned so the back face lines up the same way as the bottom rail (**Fig.5**).



Rebate the top of the Square Newels and the tops of the L-rail to accommodate the Richard Burbidge Galvanised Fixing strap.

Position the fixing strap centrally across the Newel and Rail and secure with No 8 x 25mm galvanised screws (Fig.6).

Paint any exposed timber using a proprietary end seal.

Once all of the L-rails have been fixed to the newels work out how many metal balusters will be required, making sure that the gap between each one does not exceed 99mm (Fig.7).

Metal Balusters

Measure the distance between the inside faces of the newels, and divide this length by 125.

Round this figure up to the nearest full number (this confirms how many balusters are required).

Multiply this by 26 (width of baluster) and subtract this from the length of rail (total amount of gap). The number of gaps that are required will be one more than the number of balusters. Divide total amount of gap by number of gaps to establish the gap between each baluster.

Example

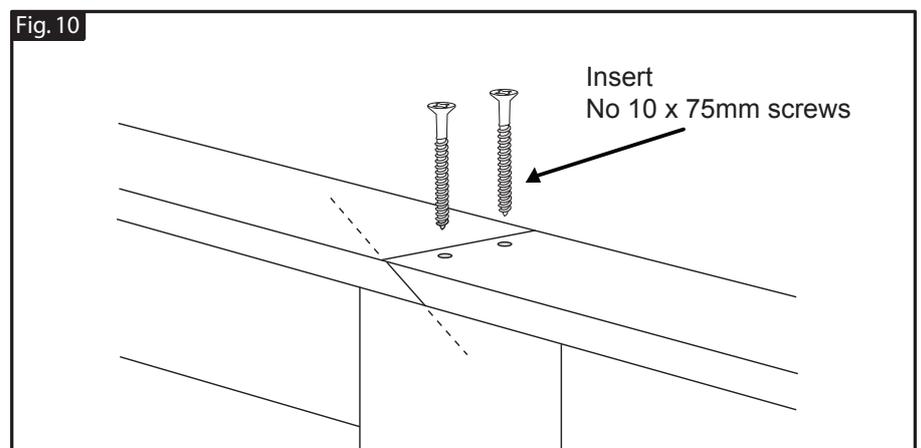
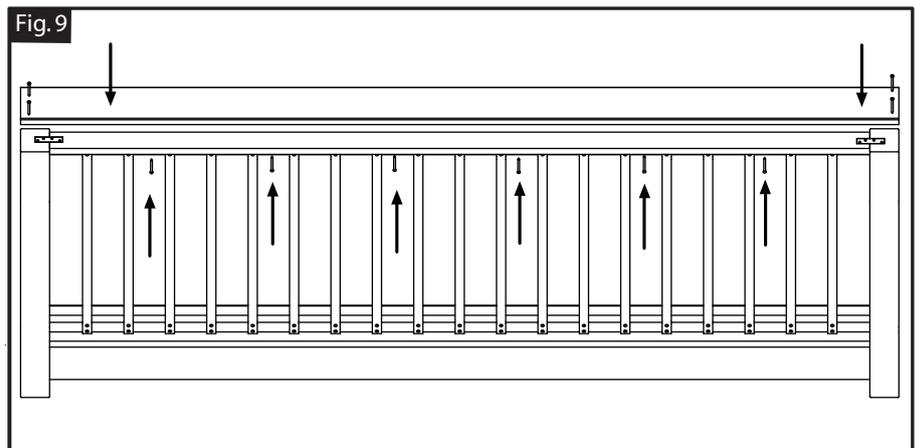
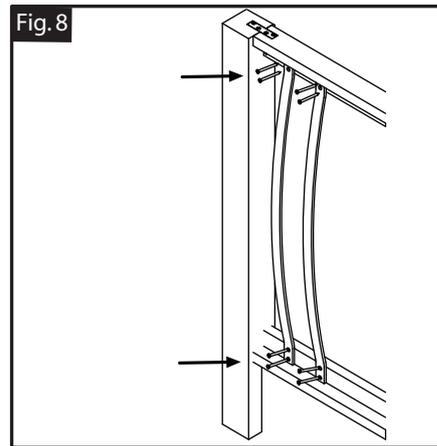
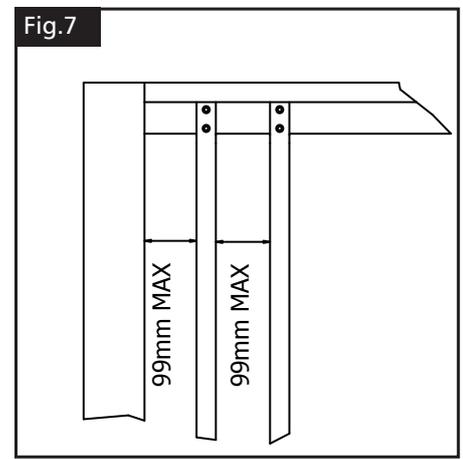
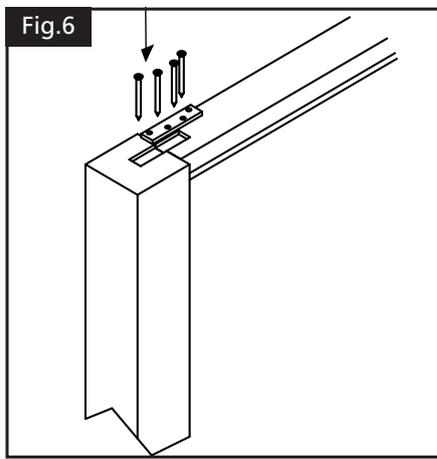
2236mm (rail length) ÷ 125 = 17.8, (rounded up to 18) = 18 metal balusters required.
 18 (balusters) x 26mm (baluster width) = 468mm
 2236mm (rail length) - 468mm = 1768mm
 1768mm divided by 19 (number of gaps between balusters) = 93mm between each metal baluster.

Fix all of the metal balusters using the black 25mm screws supplied. (Fig.8).

Flat Capping Rail

Cut the flat capping rail LD220 to length and place centrally on top of the L rail and newels. Secure by screwing through the top of the capping rail into the tops of the newels and also up from the underside of the L-rail into the capping rail using No 8 x 38mm screws (Fig.9).

On longer runs position the joined lengths of capping rail on top of the newel posts using 2 x 75mm No 10 stainless steel screws and reverse mitre for a professional look (Fig.10).



Whittington Road, Oswestry
 Shropshire, SY11 1HZ
 Telephone: 01691 655131,
 Fax: 01691 657694
 E-mail: info@richardburbidge.co.uk
 Website: www.richardburbidge.com

Technical Helpline: 01691 678212

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the written permission of Richard Burbidge Ltd.