

ROLLFORMING *Sections used in Doors and Windows*

A S Shetty

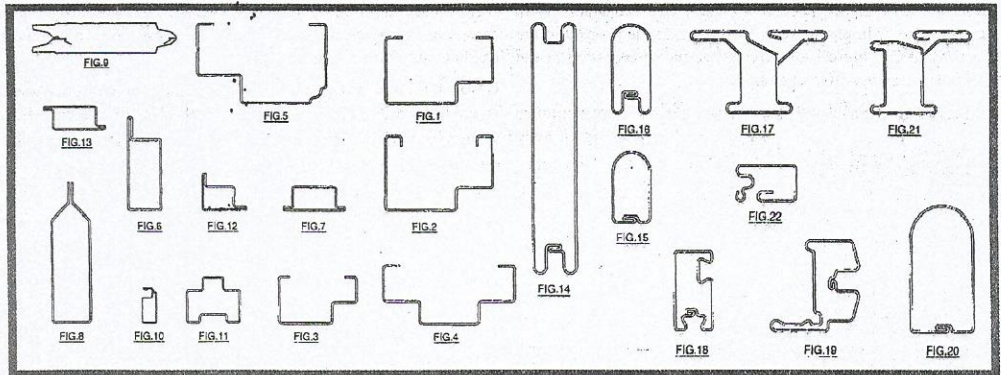
In this Seventeenth series of articles on Rollforming we will discuss about Rollforming of Sections used for Doors and Windows. On an average each dwelling house has at least four doors and twice the number of windows. One could very well imagine about the huge requirement of these sections going to be in the future in India!

Of late, there has been a concerted move from all government bodies as well as NGOs to encourage the use of substitute materials instead of traditional wood material for making doors and windows. Wood is becoming more and more scarce as well as costly. For a private citizen getting wooden doors and windows made has become very cumbersome.

From the point of conserving forest wealth also it is imperative that we find substitute material for wood. Nowadays, getting quality wood as well as good carpenters, has become difficult and time consuming.

The increasing trend is to go for standard rollformed door and window sections made out of steel coils. If these sections could be properly standardised the use of rollformed sections would get a tremendous boost as well as cheaper. Only a few of the sizes are standardized and hence there is a great need for proper standardization of door and window sections in India.

A lot of sections are still pressed/press braked. Once they are standardized economy in manufacture will occur and it will give a further boost to the mass production of rollformed sections.



The availability of timber has become erratic and the prices are spiraling. It is difficult to install, wooden doors and it deteriorates due to weather, warps and chips. As compared to wood, the quality of steel is consistent, prices lower and the sections could be delivered in knocked down condition thereby saving on transport and storage costs.

If required, the frames can be specified completely set up and welded. They can be made available in standard sizes. Their dimensions remain stable under all weather conditions and are unaffected by white ants. For the coastal areas even rollformed stainless steel or even aluminum door frames could be used.

Apart from the frame sections even the door panels could be made as a composite section. Here the two skins/face sheets are rollformed or embossed to the required design and the space in between is filled with honeycomb core ge.

construction or polyurethane foam to assure exceptionally flat surfaces with high structural resistance to impact damage.

The polyurethane core design ensures a durable insulation property. Instead of Polyurethane core solid mineral core could also be used to attain higher fire resistance property.

Rollformed steel window frames have a wider application in factory buildings, low cost office buildings, apartments and dwelling houses where safety is the main criteria. As compared to the traditional hot rolled steel frame sections they are much lighter and more elegant looking.

Another area where rollformed sections could find a wide usage is the area of Screen frames.

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<p>Range of Models: Turmaster - 400</p> <table border="0"> <tr> <td>Model - S1005 Straight Bed</td> <td>Centre Height 200mm ABC - 1000 mm</td> </tr> <tr> <td>Model - G1005 Gap Bed</td> <td>Centre Height 200mm ABC - 1000 mm</td> </tr> <tr> <td>Model - S1505 Straight Bed</td> <td>Centre Height 200mm ABC - 1500 mm</td> </tr> <tr> <td>Model - G1505 Gap Bed</td> <td>Centre Height 200mm ABC - 1500 mm</td> </tr> </table>	Model - S1005 Straight Bed	Centre Height 200mm ABC - 1000 mm	Model - G1005 Gap Bed	Centre Height 200mm ABC - 1000 mm	Model - S1505 Straight Bed	Centre Height 200mm ABC - 1500 mm	Model - G1505 Gap Bed	Centre Height 200mm ABC - 1500 mm	<p>Range of Models: Turmaster - 350</p> <table border="0"> <tr> <td>Model - S803 Straight Bed</td> <td>Centre Height 175mm ABC - 800 mm</td> </tr> <tr> <td>Model - G803 Gap Bed</td> <td>Centre Height 175mm ABC - 800 mm</td> </tr> <tr> <td>Model - S1003 Straight Bed</td> <td>Centre Height 175mm ABC - 1000 mm</td> </tr> <tr> <td>Model - G1003 Gap Bed</td> <td>Centre Height 175mm ABC - 1000 mm</td> </tr> </table>	Model - S803 Straight Bed	Centre Height 175mm ABC - 800 mm	Model - G803 Gap Bed	Centre Height 175mm ABC - 800 mm	Model - S1003 Straight Bed	Centre Height 175mm ABC - 1000 mm	Model - G1003 Gap Bed	Centre Height 175mm ABC - 1000 mm
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