

Clip nose compression



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The nose is the term that Gantrail use for the compression member on the clip which applies a downward force on the top of the rail foot. The Gantrail Clip Selection Guide gives guidance on how to choose a clip for a particular application. There will continue to be a need to select the correct nose to use with a given clip metal part and a rail which is not in the guide.

PURPOSE OF NOSE

The nose is designed to apply a limited force to the rail to restrain longitudinal and upward rail movement. The nose is desirable but not essential and can be omitted when temperatures are likely to be too high or where the effective anchoring of the rail may result in thermal expansion problems. (Aluminium plants are a case in point). See also pages 95-96 which explains more fully the major value of using clips with rubber nose.

NOSE COMPRESSION

Ideally, the nose should be compressed by about 25% of its original thickness. This will not result in equal rail restraining forces for all different sizes of nose. The larger the nose size, the lower the force. The longer the nose (along the rail), the higher the force. In choosing a nose for a clip and rail, it should be remembered that there are tolerances on the accuracy to which rails are rolled and also tolerance on Gantrail components. Thus it is safer to reduce rather than increase the nose compression from the nominal 25%.

A world of crane rail expertise.

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