

USE OF MC SECTION AS FLOOR JOISTS

The MC Section purlin single span charts can be readily adapted for floor joist design.

STRENGTH DESIGN

With screwed down sheet flooring the fully restrained condition would apply otherwise lateral braces are required. The purlin load span charts will apply for the calculated linear loadings on each joist.

Refer Page 3 for Producer Information.

Refer Pages 4 & 5 for Design Considerations

Refer Page 23 for Purlin Bracing Hole Sizes and Purlin Bracing Standard Hole Positions.

DEFLECTION DESIGN

The Ws value in the purlin charts is for a deflection limit of L/150 for serviceability loads. For floor joists this will require modification by the designer to a selected limit usually in the range $\frac{L}{L}$ to $\frac{L}{L}$

 $\frac{2}{250}$ $\frac{2}{360}$

For example if a deflection limit of L/300 is required, then the Ws (serviceability linear loading) value in the chart (for L/150 deflection limit) would need to be halved.

CONTINUOUS SPANS

For continuity over two or more spans specific calculations would be required.

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