

PLASTIC ANALYSIS OF CONTINUOUS THIN-WALLED  
BEAMS

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According to [3], Eurocode 3; Part 1.3, redistribution of internal forces and moments can be used for purlin dimensioning at the ultimate limit state, if the dimensioning is based on experimentally derived  $(M, \theta)$ -graphs. Two different behaviour types are studied: softening moment resistance and ideally plastic  $(M, \theta)$

- relation, respectively.  $(M, \theta)$ -relation is obtained from the support detail test and design curve for  $(M, \theta)$ -relation is validated in the full scale test. Ultimate load yielding from the softening moment resistance model is only few percents larger than the corresponding one resulting from the ideally plastic model in the example case.

