

FRANK NEAL ENGINEERS

2 HOME CLOSE
WOOTTON
OXON OX13 6DB
TEL: (01865) 735481
FAX: (01865) 326730

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Tech-Link – Pallet Racking System Testing Programme and Safe load Data

The Tech-Link SafetyLock system of adjustable pallet racking comprises of a range of basic cold formed steel components viz. beams, uprights etc. In practical applications these are configured such as to provide structures capable of supporting palletised loads.

In order to evaluate the safe load criteria of these pallet rack structures, standard engineering analytical methods are used in conjunction with mechanical characteristics determined from laboratory testing. The most widely accepted basis of effecting this safe load evaluation is that directed by S.E.M.A., the U.K. Storage Equipment Manufacturers Association in their Code of Practice for the Design of Static Racking. This code makes use of existing British Standards for cold formed sections. Further useful developments on these codes which have been embodied in the corresponding Australian codes for the design of cold formed steel sections have been incorporated into this approach to facilitate computerised development of safe load tables.

The mechanical characteristics of the various components of the system which are critical factors in the analysis, have been formulated from an extensive test programme supervised by the writer, and executed at the Department of Civil Engineering of Bath University in the U.K.

The safe load tables thus produced are appropriate to the use of the Tech-Link racking system when installed and used in accordance with the S.E.M.A. codes.



Frank R. Neal
C.Eng., M.Sc., B.Sc., D.I.C., M.I.Struct.E., F.I.C.E