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CONSTRUCTION INDUSTRY DEVELOPMENT BOARD

Prefabricated Reinforcement Handbook

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Handbook

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FOREWORD

The use of prefabricated reinforcement is an efficient and cost-effective option for projects having to use in-situ construction, particularly in respect of minimising wastage and overcoming site constraints. It is especially beneficial to Singapore's construction industry which is acutely short of skilled workers. Together with other buildable features, it will help to raise construction productivity, improve quality and reduce our heavy reliance on foreign workers.

This handbook is another effort by the industry to help engineers increase the buildability of their designs. It identifies the areas where prefabricated reinforcement can be used and promotes the use of standardised meshes and cages. The Handbook helps engineers by providing necessary design tables, construction details where relevant and annotations of prefabricated reinforcement. Some design examples are also provided.

I wish to thank members of the Steering Committee for their valuable feedback to this Handbook. I also wish to record my appreciation to TEG Engineering Consultants, Ho & Chang Consultants, B.R.C. Weldmesh (S.E.A.) Pte Ltd and Eastern Wire Pte Ltd who prepared most of the draft. I am confident that this Handbook will contribute to a better understanding and wider application of prefabricated reinforcement in the construction industry.

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