Dimond Structural Composite Flooring System

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1 Specification Details

Trade Sections: Concrete

Description: Dimond Structural Composite Flooring System

Keywords: Concrete, Dimond, Dimond Metal Flooring System, Dimond HiBond, Dimond Flatddeck, concrete floor system, floor system, suspended concrete floor system, metal formwork, concrete formwork, formwork, steel formwork, permanent metal formwork, reinforced concrete suspended structural floor system, structural floor system, suspended structural floor system, concrete floor system, suspended composite floor system, suspended composite concrete floor system, HiBond, hibond, Hibond, Dimond HiBond, Flatdeck, Hibond floor, HiBond Floor, HiBond system, Hibond floor system, Flatdeck, Flatdeck floor, Flatdeck floor system, Hibond floors, Flatdeck floors, reinforced concrete floors, reinforced concrete system, reinforced concrete floor system, reinforced concrete suspended floor, , Dimond metal deck flooring, Metal deck slabs

2 Clauses

2.1 Scope

Help Note:
www.dimondstructural.co.nz - Dimond Structural
Dimond Structural System Manual – Floor Systems and installation guide

For technical assistance email structuraltech@dimond.co.nz

2.1.1 Scope

Supply and install the specified Dimond Metal Flooring System, as a permanent formwork component of a reinforced concrete suspended structural floor system, to the locations identified on the drawings complete with all accessories. All aspects of this work shall be in complete accordance with the Dimond Structural Systems Manual - Flooring Systems and other relevant Dimond technical literature (check www.dimondstructural.co.nz, or email structuraltech@dimond.co.nz), NZS 3101, NZS 3404, NZS 4600, NZS 2327, other relevant product manufacturers' recommendations, and as shown on the drawings.

2.2 Flooring Systems

Help Note:
www.dimondstructural.co.nz - Dimond Structural
Dimond Structural System Manual – Floor Systems and installation guide

2.2.1 Dimond Flatdeck 0.75mm and 0.95mm BMT Suspended Composite Flooring System

Dimond Flatdeck 0.75mm and 0.95mm BMT Suspended Composite Flooring System. Comprising Dimond Flatdeck roll-formed profiled steel sheet as permanent soffit formwork, manufactured from 0.75mm and 0.95mm BMT, G550 grade high tensile galvanised steel sheet with 275g/m² zinc coating to AS/NZS 2312 (Z450 zinc weight coil can be supplied with order lead times of up to 12 weeks. Contact Dimond Structural on 0800 DIMOND (800 346 663)), and all system components, accessories and sundry items and materials, including ready-mix concrete and steel reinforcing bars and welded mesh, necessary for the construction of the floor (minimum 110mm O/A floor slab).
Constructed to the locations and details shown on the drawings in accordance with the Dimond Flooring Systems Installation Guide and the Design Engineer's approved documentation.

Flatdeck is a 57mm deep tray flooring profile used where thinner slabs are required and/or where underside appearance is important.

2.2.2 Dimond Hibond 55 0.75mm and 0.95mm BMT Suspended Composite Flooring System

Dimond Hibond 55 0.75mm and 0.95mm BMT Suspended Composite Flooring System. Comprising Dimond Hibond 55 roll-formed profiled steel sheet as permanent soffit formwork, manufactured from 0.75mm and 0.95mm BMT, G550 grade high tensile galvanised steel sheet with 275g/m² zinc coating to AS/NZS 2312 (Z450 zinc weight coil can be supplied with order lead times of up to 12 weeks. Contact Dimond Structural on 0800 DIMOND (800 346 663)), and all system components, accessories

and sundry items and materials, including ready-mix concrete and steel reinforcing bars and welded mesh, necessary for the construction of the floor (minimum 110mm O/A floor slab).
Constructed to the locations and details shown on the drawings in accordance with the Dimond Flooring Systems Installation Guide and the Design Engineer's approved documentation.

Hibond 55 is a versatile, lightweight system that delivers rapid and cost-effective installation saving on construction time.

2.2.3 Dimond Hibond 80 0.75mm, 0.95mm, 1.05mm and 1.15mm BMT Suspended Composite Flooring System

Dimond Hibond 80 0.75mm, 0.95mm, 1.05mm and 1.15mm BMT Suspended Composite Flooring System. Comprising Dimond Hibond 80 roll-formed profiled steel sheet as permanent soffit formwork, manufactured from 0.75mm, 0.95mm, 1.05mm and 1.15mm BMT, G550 (for 0.75mm & 0.95mm BMT) and G500 (for 1.05mm & 1.15mm BMT) grade high tensile galvanised steel sheet with 275g/m² zinc coating to AS/NZS 2312 (Z450 zinc weight coil can be supplied with order lead times of up to 12 weeks. Contact Dimond Structural on 0800 DIMOND (800 346 663)), and all system components, accessories and sundry items and materials, including ready-mix concrete and steel reinforcing bars and welded mesh, necessary for the construction of the floor (minimum 150mm O/A floor slab).
Constructed to the locations and details shown on the drawings in accordance with the Dimond Flooring Systems Installation Guide and the Design Engineer's approved documentation.

Hibond 80 is the deepest flooring profile allowing longer un-propped spans, minimises beam layout.

Floor thickness:
Nominal sheet length/span:
Number of propping rows:
Concrete surface finish:
Location:

2.2.4 Dimond Hibond 80 0.95mm BMT Suspended Composite Flooring System

Dimond Hibond 80 0.95mm BMT Suspended Composite Flooring System. Comprising Dimond Hibond 80 roll-formed profiled steel sheet as permanent soffit formwork, manufactured from 0.95mm BMT, G550 grade high tensile galvanised steel sheet with 275g/m² zinc coating to AS/NZS 2312, and all system components, accessories and sundry items and materials, including ready-mix concrete and steel reinforcing bars and welded mesh, necessary for the construction of the floor.
Constructed to the locations and details shown on the drawings in accordance with the Dimond Flooring Systems Installation Guide and the Design Engineer's approved documentation.

Floor thickness:
Nominal sheet length/span:
Number of propping rows:
Concrete surface finish:
Location:

SPECIFIER