

TECHNICAL INFORMATION

TOPFLOW HORIZONTAL - LEWIS®

Tarmac Topflow Horizontal - Lewis® concrete is a free-flowing self-compacting concrete, containing specially selected 10mm aggregates, macro synthetic fibres and shrinkage reducing admixtures to produce a pumpable, self-smoothing, flowing concrete (manufactured to BS:EN 206 and to specific requirements of Lewis® Deck dovetail sheeting).

USES

Topflow Horizontal - Lewis® has been designed and developed specifically to be used with the Lewis® Deck dovetail sheeting system, combining the existing Topflow Horizontal concrete technologies with advances in both fibrous and admixture additions for use with either timber, metal web or steel joists in masonry, timber or lightweight steel structures. This then forms either ground, separating or mezzanine floor constructions.

SPECIFIC FEATURES

- Increased productivity compared to floating floor treatments
- Improved loading compared to floating floor treatments
- Can easily accommodate Underfloor Heating (UFH) within the screed zone - steel mesh is required in this application
- Can be poured externally or whilst the building is incomplete
- Surface Damp Proof Membrane (DMP) can be applied after seven days to allow fast-track construction
- High early strength to allow early loading and/or early commencement of following trades
- No need for loading out prior to floor pouring
- Easily achieves SR2 as described in BS8204:7
- Dries at a rate of 1mm per day up to 40mm in good conditions
- Contains macro synthetic fibre reinforcement to provide uniform multi-directional reinforcement within the topping

- Contains shrinkage reducing admixtures to assist with robustness at thinner sections
- Ideal for modular off-site solutions

MINIMUM APPLICATION THICKNESS

Application thickness of Topflow Horizontal over Lewis® Deck system varies between 50mm and 75mm depending on loading, joist spacing and use of UFH. Please consult the Lewis® Deck data sheet for confirmation.

Typical thickness: 55mm (minimum 30mm cover to heating pipes).

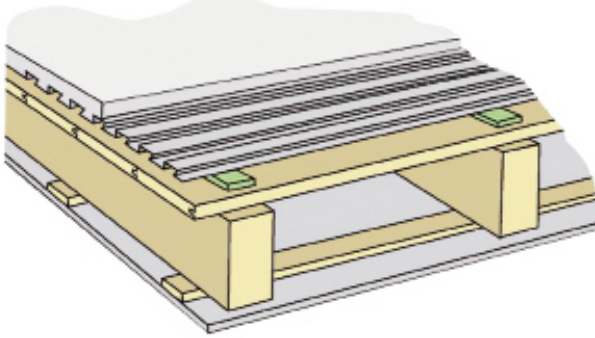
Jointing: Please note that construction and movement joints will have to be allowed for during installation. Please consult with your Tarmac technical representative who will be able to advise on each specific application.

Installation: As per conventional Topflow Horizontal concrete. Please see the datasheet for this product for further guidance on installation.

TECHNICAL DATA

Compressive strength:	C35N/mm ²
Flexural strength:	F4 N/mm ²
Nominal aggregate size:	10mm
Maintenance of fluidity:	Two hours
Hardened density:	2,300 - 2,400kg/mm ³

Topflow Horizontal



LWS B0

Composite timber floor structure (joists and tongue and groove timber boards) with plasterboard ceiling and LEWIS® concrete floor on LEWIS® resilient strips placed directly above the line of the supporting floor joist.

Properties

R _w (C;C _{tr})	55 dB (-1;-7)
L _{n,w} (C _i)	49 dB (-1)
F ≥	60 minutes

DELIVERY

Topflow Screed A SteelDeck is supplied via Tarmac's network of screed plants.

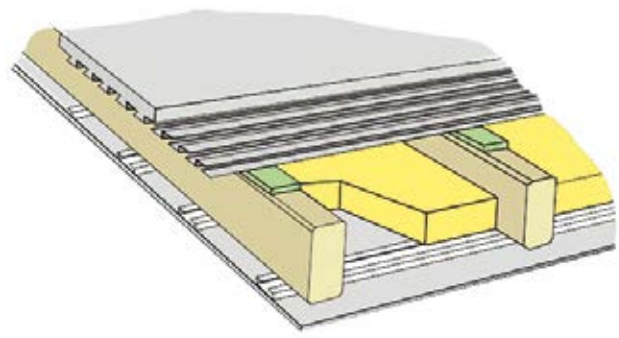
HEALTH AND SAFETY

Some of the components of this product may be hazardous during mixing and application.

Please consult the relevant Health and Safety Data Sheets, available from Tarmac on request and provided with each delivery.

LEWIS[®]
dovetailed sheeting

Topflow Horizontal



LWS A8

Composite timber floor structure with plasterboard ceiling, mineral wool in cavity and LEWIS® concrete floor. LEWIS® resilient strips paced directly on the supporting floor joist.

PROPERTIES

R _w (C;C _{tr})	59 dB (-3;-7)
L _{n,w} (C _i)	49 dB(-2)
F ≥	60 minutes