Amdeck Floor & Roof System

Amdeck is a modular, stay in place formwork manufactured using Type II/Type 2 Expanded Polystyrene (EPS) with embedded polypropylene webs for added support during construction.

It allows for the construction of one-way, reinforced concrete slabs with an integrated joists system that allows the design flexibility to maximize the clear spans and potentially reduce temporary shoring.

Amdeck incorporates full length 10” (254mm) lightweight steel C-channel joists (16, 14 and 12 gauge) to support temporary construction loads, utilizing an appropriate shoring system.

It can be used in a horizontal (or sloped) configuration for floors and roofs with typical finished unsupported clear spans up to 30ft (9.1m). It is perfectly suited for use with ICF walls or independently with other structural systems.

The combination of reinforced concrete slab with Amdeck has R-value of 19 F.ft².hr/Btu (3.35 m²K/W), FIIC rating of 30 and ASTC rating of 47+.
Amvic Advantage

Reduced Shoring Requirements

Amdeck implements lightweight steel joists supporting temporary construction loads until the poured concrete gains its specified strength. As a result, shoring can be placed up to 15’ (4.6m) on center, (depending on topping slab thickness and allowable deflection tolerances) which substantially reduces shoring requirements and overall construction costs when compared to competing products.

Small Compact Units

Amdeck comes in standardized, small, lightweight modular units, which make the system easier to handle and use. The modular units are assembled on-site to construct the floor or roof span in an easy and fast manner. Amdeck forms can also be easily cut from all directions to fit a specific span or width, making this system extremely flexible, in comparison to competing products.

Structure

One-way concrete slab joists which are formed by Amdeck can span up to 30’ (9.1m) using normal concrete mixes and conventional reinforcing steel. Spans of greater than 30’ (9.1m) can be achieved. Slab and shoring requirements are site specific and designed by a licensed professional.

Reduced Costs

Amdeck is a fully reversible system which reduces labor costs, installation time, allows for multiple installation teams and minimizes material wastage. In addition, Amdeck is a “finish ready” system that requires no additional furring strips, saving both time and money.

Applications

- Floors
- Car garage floors
- Flat or sloped roofs
- Green Roofs
- Safe rooms
- First floor in high risk floor areas
- High wind/hurricane areas
- All construction sectors, residential, commercial and institutional
- Balconies and cantilevers

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