

Building better... it all starts with AmDeck



Overview

The AmDeck® Floor & Roof System is a modular, lightweight stay in place form made of Expanded Polystyrene (EPS) that is used to construct concrete floors and roofs. When installed properly the system provides structural strength through reinforced concrete and insulation through EPS. The System utilizes 10" inch lightweight steel framing studs which carry the temporary construction loads until the concrete gains its required strength and act as furring strips to which interior finishes can be attached. This system perfectly compliments your Insulated Concrete Form (ICF) structure and together they provide a complete structural and thermal "building envelope".



Reduces construction time and labor costs

- Shoring can be placed up to 20ft on center, which is 4x less than required for competing products
- Small, lightweight units are easy to use and handle
- Fully reversible forms make the installation process quick and easy

Enables Design Flexibility

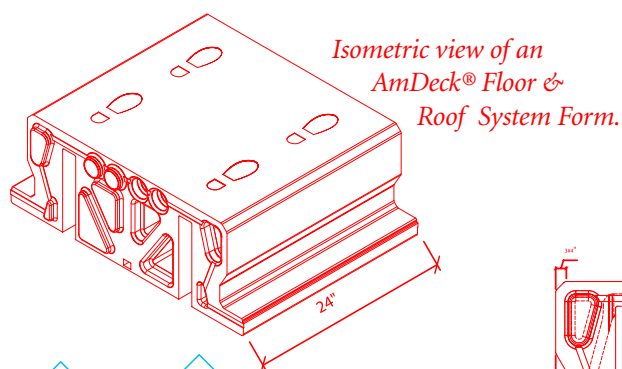
- One way concrete floor/roof joists can span approximately between 30-35ft using normal concrete mixes
- Spans greater than 40ft can be achieved using higher strength concrete and post-tensioned reinforcing cable strands
- Required sizes do not need to be pre-ordered since the quantity can be adjusted to fit any project

Protects the Environment

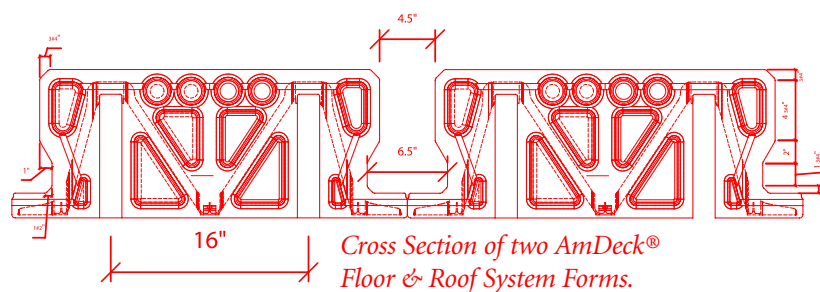
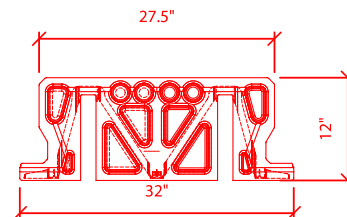
- Eliminates the use of wood which reduces deforestation
- Polypropylene webs are made of recycled material
- Construction waste is considerably reduced

Ensures maximum comfort and safety

- Floors and roofs have a fire rating of 2+ hours
- When used for roofs provides ample protection against tornados and hurricanes
- Non organic materials prevent insect damage as well as mold and mildew growth
- Significantly reduces the amount of noise travel between floors
- Insulation allows for greater temperature control



Cross Section of an AmDeck® Floor & Roof System Form.





Stacking the AmDeck® Floor & Roof System.



Pouring concrete onto the assembled forms.



Smoothing concrete to create a flat surface.

AmDeck® Floor & Roof System Concrete Joists

Maximum span for concrete joists as per table below, based on:

- 10 psf dead load
- 40 psf live load
- Single span w $l^2/8$
- $F_y = 60,000$ psi , $F_c = 3,000$ psi

AmDeck® Floor & Roof System Concrete Joist Maximum Spans

This table is for estimation purposes only.

Slab Thickness	Bottom Steel	Top Steel Transverse	Top Steel Longitudinal	Max. Span
2"	2 # 6	#3 @ 16 o/c	#3 @ 16 o/c	25ft
2.5"	2 # 6	#3 @ 16 o/c	#3 @ 16 o/c	26ft
3"	2 # 7	#4 @ 12 o/c	#3 @ 16 o/c	27ft
3.5"	2 # 7	#4 @ 12 o/c	#3 @ 16 o/c	28ft
4"	2 # 8	#5 @ 12 o/c	#3 @ 16 o/c	29ft
4.5"	2 # 8	#5 @ 12 o/c	#3 @ 16 o/c	30ft

10 Steps to Easy Installation

1. Erect shoring as per engineer or code requirements.
2. Install steel joists 16" apart.
3. Stack forms starting from one side and work towards the other side.
4. Install electrical conduits and block-outs for service penetrations.
5. Place rebar for concrete joists.
6. Place transverse and longitudinal rebar for the concrete top.
7. Pour concrete onto forms starting from one side and work towards the other side.
8. Follow with a pencil vibrator to ensure proper concrete consolidation.
9. Smooth concrete out to create a flat surface.
10. Let concrete cure and proceed with further stages of construction.



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