

COMPOSITE METAL DECKS



A NEW LEVEL OF EFFICIENCY IN PLACING ELEVATED DECKS.

Flexing of metal decks. Restraint of movement, which leads to cracking. Worker safety. These are only a few of the unique challenges that come when building composite metal decks. Fortunately, Novomesh® synthetic and steel blended fibers are uniquely suited to meet these challenges. And Novomesh is proven as an alternate to traditional methods for temperature and shrinkage reinforcement.

PERFORMANCE THAT RISES ABOVE.

- Uniform fiber distribution creates stronger, more durable concrete composites for unparalleled monolithic performance.
- Synthetic fibers act as an internal support system that discourages the segregation of the concrete ingredients while adding tensile strain capacity to freshly placed concrete, minimizing plastic shrinkage and plastic settlement cracking.
- As the concrete hardens, the evenly distributed steel fibers provide improved mechanical bonding capacity, exceeding most performance specifications for enhancing concrete's flexural and shear strength, fatigue endurance, impact resistance, and ductility while providing drying shrinkage crack width control.
- Reduces concrete cracking over structural support beams.



SDI AND UL® APPROVED.

- The Steel Deck Institute Design Manual (publication number 30- ANSI/SDI-C.10) Specification for Composite Steel Floor Deck) permits steel fiber as an alternate means of providing temperature and shrinkage reinforcement for composite steel floor deck as stated in Section 5.5.
- Fibermesh®, Novomesh®, and Novocon® fiber products carry a UL® rating for building and fire code compliance: D700, D800 and D900 series decks.



Note: Novomesh 850® (formerly Novomesh e3®) has been approved for use as an alternative or in addition to welded wire fabric used in Floor-Ceiling D700, D800 and D900 Series Designs. Fibers may also be used in Floor-Ceiling Designs G256 and G514. Fibers added to concrete mix at a rate of one 24 lb bag of fiber for each cubic yard of concrete.

REDUCES PLACEMENT TIME AND HASSLES WHILE IMPROVING SAFETY.

- Improves safety by eliminating the need for workers to position, handle or step on wire mesh.
- Unlike welded wire fabric, there's nothing to install. Novomesh fibers are added directly to the concrete mix.
- Provides uniform, multi-directional concrete reinforcement that is always in the proper location.
- No costly lifting equipment required; concrete is easily pumped to multi-story elevations and pours and finishes with standard equipment for faster, more efficient construction.

IDEAL FOR THESE APPLICATIONS AND OTHERS:

- Mezzanines
- Shopping centers
- Office buildings
- Stadiums
- Institutional/educational facilities
- Elevated walkways

FOR MORE INFORMATION:

See our Product Data Sheets for the NOVOMESH® family of products.



THE ADVANTAGE CREATORS.™

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CS-504
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07/06