

## Top 10 Reasons: To Design with Helix Micro Rebar vs. Rebar/Mesh

### 1. **Helix Eliminates Placing Errors.**

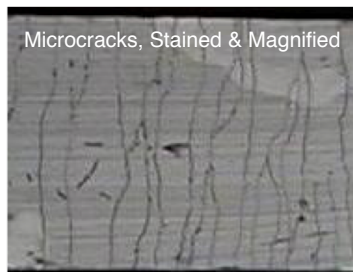
Helix avoids placement errors since it is distributed throughout the concrete matrix. Traditional reinforcement's effective strength is decreased by up to 50% when misplaced. Placing chairs, and their potential for weakening the concrete, are also eliminated.

### 2. **Helix Provides a 40% Plus Stronger Concrete Section.**

Helix is a multidirectional reinforcement that increases shear strength and decreases the need for stirrups.

### 3. **Helix Allows the Concrete to Absorb 200% Plus More Energy.**

Helix adds durability and impact resistance to the concrete which is excellent for heavy loads and seismic events.



### 4. **Helix has Excellent Crack Control Properties.**

Helix is designed to keep cracks tight and short when they develop allowing the concrete to micro crack but not develop a large, dominate crack.

### 5. **Helix is a Safer, Discontinuous Reinforcement System.**

Helix does not allow for a complete failure of the system due to corrosion; unlike traditional reinforcement which is continuous and electrically connected.

### 6. **Helix Helps Increase Worksite Safety.**

Helix reduces injuries due to cuts (placing), strains (lifting) and tripping/falling (maneuvering through the grid) traditionally associated with rebar/mesh.

### 7. **Helix is Electroplated with Zinc.**

Helix has been tested in de-icing agents to resist rusting 3 times longer than standard rebar/mesh that has no coating.

### 8. **Helix Significantly Reduces Construction Time.**

Helix reduces construction time by eliminating laying, tying, and inspections and in most cases can eliminate the need for pumping and void development in highly congested steel locations.

### 9. **Helix Reduces Reinforcing Costs by at Least 20%.**

Helix eliminates the labor associated with rebar/mesh placement along with reduction of scrap, chairs and overlap splicing steel.

### 10. **Helix Can Help Achieve LEED Goals.**

Helix is made from 50% recycled steel and less overall weight of steel is used thus the emissions of trucks, forklifts and cranes are greatly reduced.

