

saving you **money** saving our **environment**

The natural choice for use in multi-story residential and commercial buildings



economy through
ecology®



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www.ecospan-usa.com



can a
structural floor system
be **easy** to install,
cost-effective
and **green**?

Yes.

The Ecospan Composite Floor System offers all these advantages and more. A safe, innovative choice, Ecospan helps reduce building costs while offering the benefits of sustainable building materials that qualify for LEED® certification through the U.S. Green Building Council.

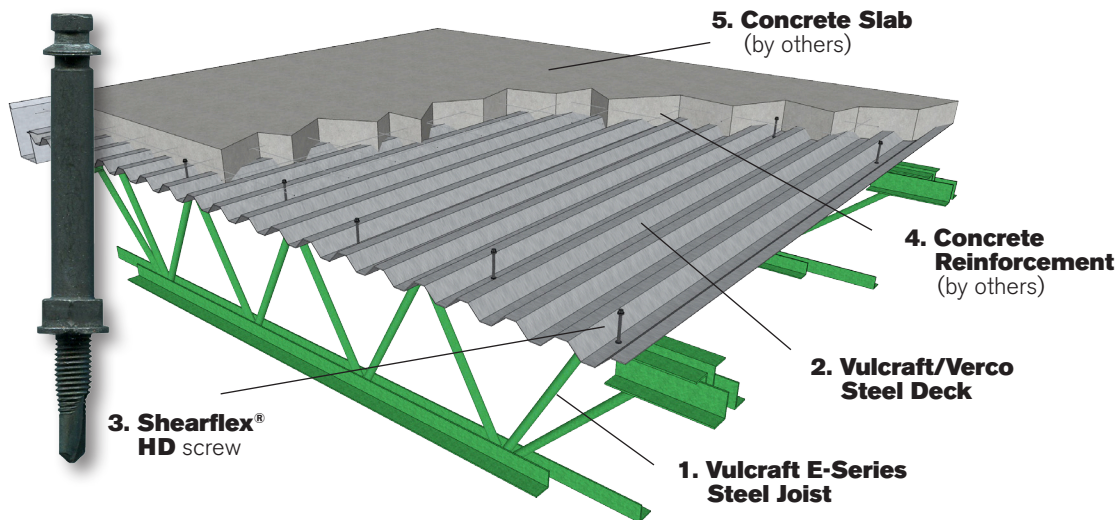
Made with 99% recycled steel joists and 70% recycled steel decking, Ecospan provides open web structural components with a lighter weight composite design for elevated floor construction.

Ecospan is the natural choice for:

- Senior Living and Care Facilities
- Apartments
- Condominiums
- Student Housing
- Military Housing
- Hotels and Resorts
- Medical Facilities
- Office Buildings

Economical Fast Safe Strong Versatile Quiet Green

The Ecospan Composite Floor System uses a unique configuration of components with high strength-to-weight ratios that allows for longer spans, shallow floor depths, greater rigidity and enhanced performance – without sacrificing aesthetics.



Ecospan offers many clear advantages over conventional construction techniques including:

1. Vulcraft Steel Joists

High strength-to-weight ratio allows for greater spans and spacing with lighter members than traditional joists. Ranging from 10" to 24" deep and a maximum length of 45', Ecospan joists are typically spaced at 4' on center, allowing HVAC and electrical design and installation flexibility.

2. Vulcraft/Verco Steel Decking

Multi-span sheets of light gauge decking eliminate short sheets, reduce weight and improve safety.

3. Shearflex® HD Screw

With an average installation time of 3 to 8 seconds per screw, these patented self-drilling, self-tapping connectors

are easy and inexpensive to use. Workers install the 2 1/2" or 3" long, 5/16" diameter screws in a uniform pattern using a Vulcraft-provided Shearset® Tool.

4. Slab Reinforcement

Provided by the General Contractor, the slab reinforcement typically consists of 6x6 welded steel wire or fiber mesh.

5. Concrete Slab (by others)

Slab thickness is typically 2 1/2" (3 1/2" total depth) normal weight concrete having a minimum 28 day ultimate compressive strength of 3,000 psi.

Ecospan provides innovative, results-driven building solutions that surpass industry standards for safety, sound and fire ratings, design flexibility and green building.



Ecospan over-delivers on value while maintaining economy through ecology.

Economy: Simple, fast installation means a minimal learning curve for contractors, saving time and money. No wood, shoring or stripping is required.

Flexibility: 48" or greater on center joists mean simpler design and layout, increasing efficiency and making the design and installation of mechanical, electrical, and plumbing systems easier.

Stability: Lightweight, shallow composite joists mean greater rigidity. Ecospan has been extensively tested for structural capacity by leading universities.

Innovation: The Ecospan System uses an exclusive, patented, screw-down Shearflex HD Connector, which is installed


with a uniquely designed manual tool included with each system.

Speed: The time required to install each Shearflex HD Connector is three to eight seconds, significantly less time than other techniques.

Simplicity: Once the floor system decking is installed, concrete is ready to be poured.

Versatility: Compatible with any load bearing wall framing system including: structural steel, steel studs, light gauge CFS, masonry, concrete and insulated concrete forms. Composite design allows for longer span with less joist depth.

Safety: Provides a safe, stable working platform in a single step, which reduces

construction liability. Non-combustible with several  fire resistance ratings for 1, 2, and 3 hours.

Noise Reduction: Ecospan received a Sound Transmission Classification Rating of 57 in acoustical tests conducted by the renowned Riverbank Acoustic Laboratory. Impact Insulation Classification tests were also impressive with minimal sound attenuation materials required.

Availability: Joist and decking materials are standard and produced at Nucor Vulcraft/Verco plants throughout the U.S., which cuts freight costs and speeds materials to the job site.

**The Ecospan
Flooring System**
is **simple to install**,
with **lower labor
costs** than traditional
methods, requiring:

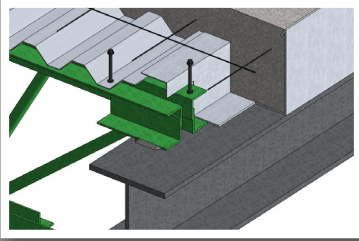
- No Wood
- No Stripping
or Formwork
- No Shoring
- No Welding



Ecospan by the numbers

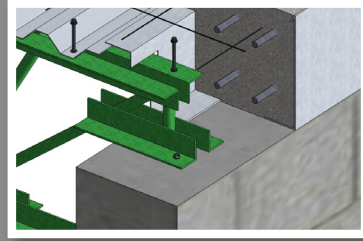
- 1** Place the joists
- 2** Install the decking
- 3** Install the Shearflex
connectors using the
Shearset tool
- 4** Deck ready for
reinforcing
- 5** View from below:
no shoring, no
plywood to remove
- 6** HVAC and electrical
system friendly



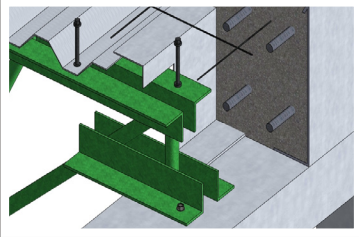


Structural Steel

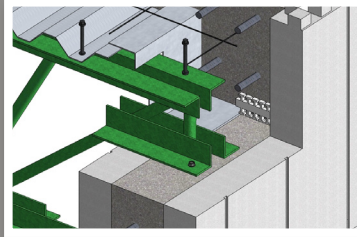
Ecospan is
compatible with
any wall framing
system.



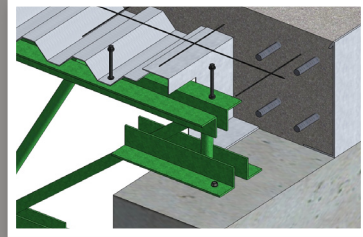
Masonry



Light Gauge Steel Stud



Insulated Concrete Forms (ICF)



Concrete



Ecospan is ideal for:

- Senior living and care facilities
- High-end residential buildings
- Apartments and condominiums
- Multi-family housing
- Student Housing
- Military Housing
- Hotels and resorts
- Mid-rise office buildings
- Medical facilities



The Ecospan Composite Floor System is fabricated at **Vulcraft/Verco** plants throughout the **United States**. Save on shipping costs for your next project by contacting us today.

Non-combustible steel product
48" joist spacing, longer spans
No wood, stripping or shoring
Compatible with all wall systems
HVAC and electrical friendly
Simple and economical to install
Installation tool provided
UL listed fire ratings – 1, 2 and 3 hours
Excellent sound ratings – STC and IIC
Detailed in the USA
Manufactured from recycled steel



Economical
Fast Quiet Green
Safe Strong Versatile



Ecospan Composite Floor System

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