

# E-Postcard Sustainable Structures



Structural Design is often overlooked in available metrics such as LEED, SPIRIT and many Green Points programs. When thinking about sustainable projects, people primarily think of recycled materials such as fly ash and salvaged or recycled materials. In addition to these options, Studio **NYL** concentrates on how to design the structure to make better use of some of the insulating technologies available and employs strategies to reduce the amount of structural material required.

Studio **NYL** employs techniques such as Structural Insulated Panels, Insulated Concrete Forms and Strawbale to integrate the building envelope with the structural systems. By arranging structural systems to optimize the capacities and rigidity of these systems, we are able to efficiently use these products and eliminate structure elsewhere.

Studio **NYL** has been utilizing Carbon Fiber Reinforcement to reuse existing structures. Many historic structures do not meet modern design standards. Typically this would make them poor candidates for adaptive re-use but by strengthening floor and lateral systems with Carbon Fiber, we are able to save many of these buildings and eliminate the waste of demolishing them.

Tensile systems can reduce the amount of material needed by optimizing the use of slender high strength elements and by using geometry to reduce member sizes, therefore in each case reducing material.

By integrating multiple systems to create more efficient use of the materials and systems, Studio **NYL** reduces the volume of materials needed and helps projects meet budgets. We are proud to be involved in multiple cost competitive projects that are also Net Zero Energy.

Studio **NYL** is active in the design and construction community, educating architects and contractors about sustainable structural systems and strategies.

To learn more about the systems mentioned above, please follow the adjacent links.



**Structural Insulated Panels (SIPs)**



**Insulated Concrete Forms (ICF)**



**Strawbale Construction**



**Carbon Fiber Reinforcement**



**Studio NYL  
Net Zero Energy**



**Tensile  
Systems**

## Sustainable Structures Presentation

Studio **NYL** is a proud member of the USGBC, Boulder Green Building Guild and the AIA Committee on the Environment

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