

**STC (Sound Transmission Class) and IIC (Impact Isolation Class)  
Field Tests of Typical Lite-Deck Floors**

**FIELD TEST I – Conducted May 21, 2007**

**Garage Floor – Single Family Residence**

**Sioux City, Iowa**

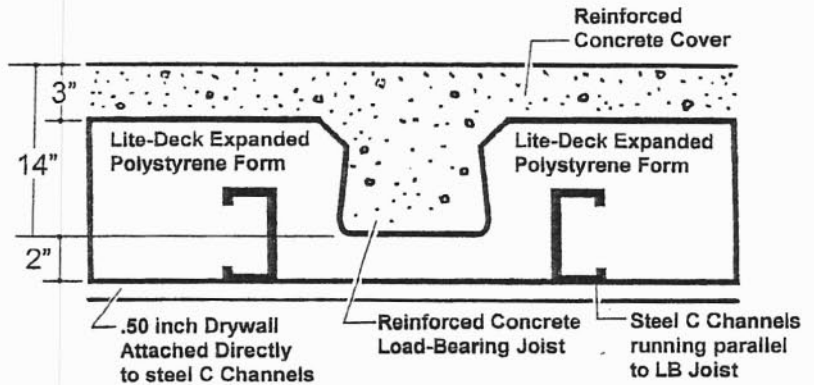
Drawing not to scale  
Standard Concrete, 4,000 psi mix  
Reinforcing Steel not shown  
Dim. of receiving room below: 29' X 40'  
Weight of floor: 74.4 lbs. per sq. ft.

**FSTC\* 57**  
**FIIC\*\* 44**

\*Field Sound Transmission Class  
\*\* Field Impact Isolation Class

Calculated Results	Attach Drywall with Resilient Clips	Attach 1" Drywall direct to C Channels
FSTC	67	54
FIIC	61	48

**Lite-Deck Floor Configuration**



**FIELD TEST II – Conducted May 22, 2007**

**Bedroom Floor – Single Family Residence**

**Sioux City, Iowa**

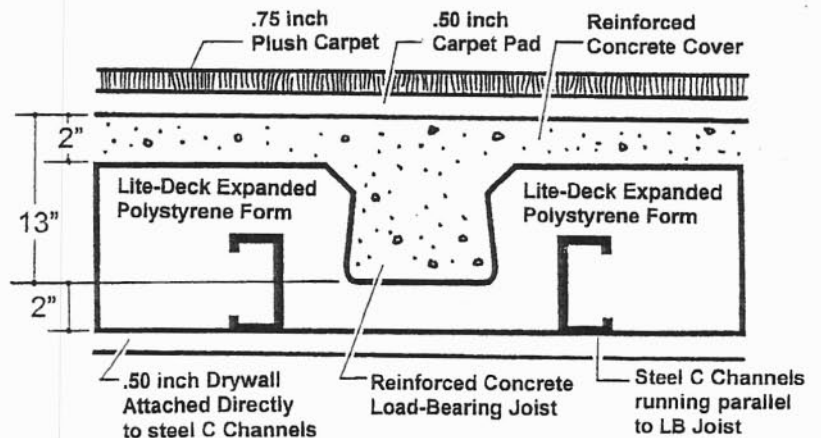
Drawing not to scale  
Standard Concrete, 4,000 psi mix  
Reinforcing Steel not shown  
Dim. of receiving room below: 12' X 16'  
Weight of floor: 60.2 lbs. per sq. ft.

**FSTC\* 48**  
**FIIC\*\* 82**

\*Field Sound Transmission Class  
\*\* Field Impact Isolation Class

Calculated Results	Attach Drywall with Resilient Clips	Attach 1" Drywall direct to C Channels
FSTC	56	52
FIIC	90	86

**Lite-Deck Floor Configuration**



Field Tests were conducted and certified by Wm. H.O. Kroll Associates of Minnetonka, MN. The firm specializes in acoustics – sound, noise and vibration. The test results are identified as FSTC and FIIC as required for tests made in the field as opposed to tests made in a commercial acoustical test facility. Tests were made in keeping with ASTM E366 and E1007 standards. Room temperatures were 68-degrees (dry bulb) and 48-degrees (wet bulb). Both receiving rooms met the room volume minima, as called for in the ASTM standards. Complete copies of Field Tests available upon request.