



SPECIALTY PRODUCTS & INSULATION

SafeLite[®] Patent / U.S. Patent Registration No. 7,627,999 B2

To maintain fire rated ceiling assembly integrity, as shown in manufacturer U.L. suspended & drywall ceiling listings, penetrations such as recessed light fixtures, speaker systems and HVAC diffusers must be protected.

Typically fire rated ceiling tile material is used to field fabricate enclosures for ceiling light fixture penetrations. Patented *SafeLite* is an alternative solution from Specialty Products & Insulation (SPI) to the awkward, labor intensive approach of field fabricating fire rated ceiling tile or drywall board into fixture enclosures. As detailed in many ceiling U.L. listed fire test designs, a variety of mineral wool board enclosures are shown for fixture protection. For these UL listed designs, SPI offers *SafeLite* for your consideration.

SafeLite is available to accommodate a variety of light fixture sizes: 2' x 4', 2' x 2', recessed can or high hat style light fixtures and speaker boxes to satisfy tested ceiling assembly details specified in UL listings and required by Building Code for various fire rated construction assemblies.

SafeLite is fabricated from high temperature, noncombustible, rigid mineral fiber board (see mineral wool manufacturer datasheet for additional information). Covers are supplied at 1-1/4" thick faced on one side for enhanced durability. Panels are custom cut and grooved to effortlessly fold into a standard box enclosure to accommodate specific light fixture dimensions and maintain a 1" fixture air space (custom cut enclosures are also available). Each kit is supplied with peel and stick insulation pins with washers to maintain necessary ventilation air space and secure the cover to the fixture. Pre cut end caps are provided with securing pins.



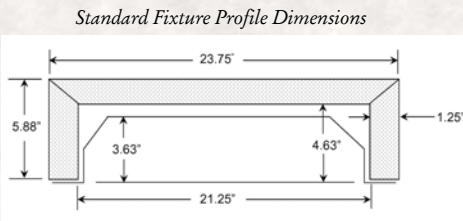
SPI *SafeLite* BENEFITS INCLUDE:

- The prefab *SafeLite* enclosure offers documented acoustical performance greatly improving speech privacy and reducing unwanted sound transmission through the ceiling. This performance is critical for sound proofing efforts.
- The lightweight (~ 12 pounds for a 2' x 4' light fixture) construction is quick and easy to install saving considerable labor, time and expense.
- The use of peel and stick insulation pins provides a system that stays in place.
- The rigid board enclosure offers improved durability compared to traditional field constructed ceiling tile or mineral wool enclosures.
- *SafeLite* material has an R value of 4.2 per inch at 75° F which will contribute to reduced energy costs.
- Covers easily slit to accommodate fixture or ceiling suspension wires and power cable saving time.
- Standoff insulation pins maintain air space requirements.
- *SafeLite* insulation board is made from natural materials and has a recycled content of 80.6% (post-industrial).

SafeLite® ORDER FORM

		DATE
COMPANY	CONTACT	PHONE
PROJECT NAME & LOCATION		DATE REQUIRED
SHIP TO LOCATION		P.O. NUMBER

STANDARD FLUORESCENT LIGHT FIXTURE QUANTITY		CANS AND NON STANDARD FLUORESCENT FIXTURE			
2'x4'	2'x2'	Required Inside Cover Dimensions			Quantity
		L"	W"	H"	N.A.



Notes:

- When ordering can light or non standard fluorescent covers, provide accurate fixture external cover internal dimensions. Include specific manufacturer required air space clearance for non IC rated lights to ensure correct SafeLite sizing.
- All covers are produced as 5 sided unless specified otherwise.
- Typical lead time 7-10 days ARO.
- It is the installer's responsibility to review the specific U.L. ceiling design and prepare any vent opening.

SafeLite (mineral wool board, faced) Physical Properties:

Maximum service temperature 1200° F
 Melt point > 2000° F

Thermal Resistance:

ASTM C 518 (C177) R value/inch @ 75° F 4.2 (R value 5.25 @ 1-1/4" thick)

Fire Performance:

ASTM E 136 Behavior of Materials at 750° C (1382° F) Non-Combustible
 ASTM E 84 Surface Burning Characteristics Flame Spread 25
 Smoke Developed 0

SafeLite covers are fabricated from Thermafiber material which is approved for use by the New York City Dept of Buildings, Report of Materials and Equipment Acceptance Division under MEA 210-82-M Vol. 2.

***Acoustical Performance:**

ASTM C 423 NRC = 1.00 at 2" thick

ASTM E 1414 CAC- Two Room Transmission Loss, AL 20 (TM 418)

- 1.) A high performance ceiling no light fixtures, CAC 44.
- 2.) The same ceiling with 2-2x4 light fixtures, CAC 41.
- 3.) The same ceiling with SafeLite on the 2x4 light fixtures, CAC 45 (A 4db improvement over unprotected lights).

Note: A 3db (decibel) change sounds half as loud as the original noise.

SafeLite kits are factory cut from Thermafiber board. Thermafiber fire resistant Insulation boards are classified by Underwriters Laboratories, Inc. for use in the fire rated floor and roof-ceiling designs listed below-

- Floor-Ceiling Designs: Design Nos. A003, D010, D209, D216, D219, G007, G008, G036, G202, G204, G211, G213, G215, G222, G227, G228, G230, G231, G234, G252, G258, G268, G523, G526, J201, J202, L005, L006, L202, L206, L530, L541, L591
- Roof-Ceiling Designs: Design Nos. P202, P203, P207, P213, P214, P228, P229, P230, P235, P237, P242, P246, P257, P267



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*For additional SafeLite information please visit
<http://www.spi-co.com/safelite-ceiling-light-covers/>*

Please ask your SPI Sales Representative about FirePlug & FireStrip firestop system components, prefab drywall grid service and Absorption Plus acoustical panels