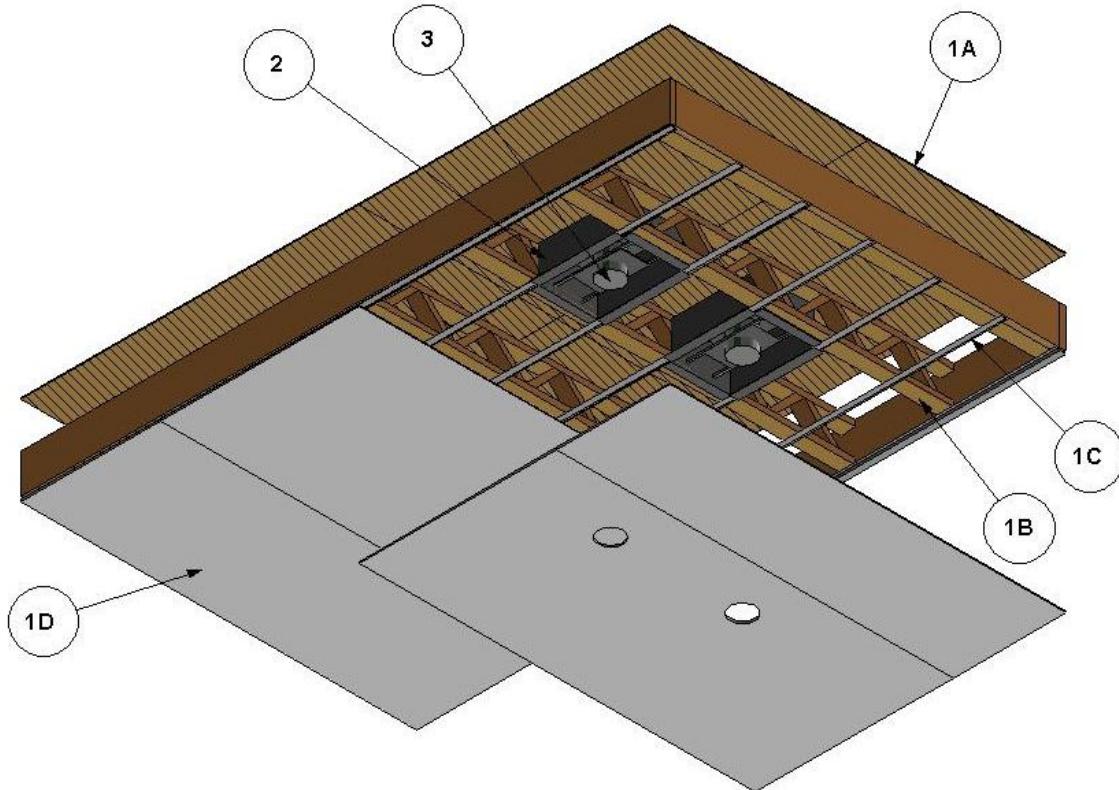

ELCO Lighting
Design No. EL/IL 60-01
Floor/Ceiling Assembly
FIREENCL Fire Enclosure
ASTM E119
UL263
CAN/ULC S101
Unrestrained Assembly Rating: 1 Hour
Load Restricted for Canadian Applications



1. **FLOOR/CEILING ASSEMBLY:** Use a one-hour fire-rated floor/ceiling assembly constructed in accordance with material and construction specifications of UL Design No. L528, and as specified below:
 - A. **Flooring System** – Use min. 23/32 in. thick, tongue and groove, wood structural panels.
 - B. **Wood Trusses** – Use parallel chord wood trusses, spaced max. 24 in. on center (oc), manufactured from min. 2 x 4 lumber, and min. truss depth of 12 in.
 - C. **Channels** – Use min. 25 GA galvanized steel furring channels or min. 26 MSG galvanized steel resilient channels spaced a max. of 16 in. oc. Secure channels to bottom chord of wood trusses (Item 1B) a max. 24 in. oc, using approved fasteners and methods.
 - D. **Gypsum Board** – Min. one layer of approved 5/8 in. thick gypsum board (see UL Design No. L528) attached to channels (Item 1C) and with long dimension perpendicular to channels using approved fasteners and methods.

E. Load Restrictions – Apply any load restrictions as noted in the referenced design listing.

2. CERTIFIED COMPANY: ELCO Lighting
CERTIFIED PRODUCT: Fire Enclosure
MODEL: FIREENCL

Install fire enclosure with the following provisions:

- Max. of two (2) fire enclosures within 100 ft² area.
- Min. spacing of 24 in. oc between fire enclosures within the same truss cavity.
- Min. spacing of 34 in. oc between fire enclosures when located in adjacent truss cavities.
- Max. length of enclosure of 20-3/8 in. Max. cross-sectional area of enclosure at opening face of 272.5 in.². Max. height of enclosure of 9 in.

Open folded FIREENCL unit and turn it to fit between the wood trusses (Item 1B) and channels (Item 1C) such that the flanges are placed under the wood trusses (Item 1B). Use lumber strips or plywood at the bottom chords of the wood trusses between the channels to adjust (shim) the flange mounting surface to be level with the top of the gypsum board (Item 1D). Fasten the lumber strips or plywood to the wood truss bottom chords with wood screws or nails. Secure the fire enclosure to the bottom chords of the wood trusses using

nails, staples, or wood screws with flat washers. The sides of the fire enclosure shall be supported by the adjacent joists however if the size of the enclosure does not allow it to be supported by the joists, nominal 2 x 4 wood members need to be installed to accommodate support of the enclosure. Fasten the sidewalls of the fire enclosure to the sides of the wood truss bottom chords approximately 1 in. from the bottom of the wood truss and 3 in. oc. Fasten the flanges to the shimmed bottom of the wood trusses 3 in. oc. Ensure all four (4) flanges are flush against the top of the gypsum board ceiling membrane when installation of the ceiling is complete.

If light fixture (Item 3) was previously installed, cut small slits in the enclosure flanges and walls as needed to fit over the light fixture mounting hardware. Use supplied ELCO FIRETAPE to cover over the slits.

3. LIGHT FIXTURE: Use a canister-style, recessed light fixture sized for a max. 7-1/2 in. diameter ceiling membrane opening to accommodate a max. 8 in. diameter lighting fixture (Note: smaller cutouts and hence smaller fixtures are allowed). Follow the manufacturer's installation instructions and applicable electric code requirements. Install mounting hardware through the fire enclosure (Item 2). Make an X-shaped opening through the fire enclosure wall to feed required electrical cable. Use supplied ELCO FIRETAPE to cover any openings made for the electrical cables and mounting hardware.