

Firestop Specifications 1 Hour F & T Rated

UL Labs Certification and Firestop Configuration for One Hour Wall

The Dryerbox has been classified by Underwriters Laboratories, Inc. for models 350, 425, 3D and 4D for use in **Through-Penetration Firestop System Number W-L-7129.**



Underwriters Laboratories Certifications Directory reference numbers: **XHGK.R21933** (US), **XHGK7.R21933** (CANADA) and **XHEZ.W-L-7129** (FIRESTOP SYSTEM).

**Cabinets
For Use in Penetration Firestop Systems
See UL Fire Resistance Directory
<25XC>**

Firestop System Number W-L-7129

Click [HERE](#) for a direct link to UL's online specifications for firestop system installation.

Click [HERE](#) for the Dryerbox Classification Listing (for Canada, [HERE](#)).

Quick One-Hour Wall Firestop Instruction Summary

These key components are noted on the instruction sheet that comes with every Dryerbox. The following are highlights to comply with the UL Classification for through-penetration firestop systems.



To achieve a fire resistance rating (one-hour F & T) 2X6 wood framing is required. The Dryerbox unit must be installed in accordance with the [UL Cabinet System listing](#).

1. An extra layer of type-X drywall must be installed in the ID of the stud cavity in which the Dryerbox is located. Drywall must be attached to nailers (minimum 1" X 2") located on the inside of the cavity wall studs. Secure nailers to wall framing at max 18 in. OC. The screws used to attach the inner layer of drywall shall be spaced a maximum of 18 inches apart.
2. The entire depth of stud cavity with Dryerbox® must be filled with R19 fiberglass batt insulation. Additional insulation shall be added within the cavity as necessary to completely fill all voids around the periphery of the Dryerbox and around the dryer vent pipe.
3. Use a Roto-zip-bit router tool to cut the drywall leaving a caulk joint for the painter. This void must be caulked or mudded.

2012 International Building Code Guidance

Please Note that Local Amendments May Vary

IBC 708.3 (709.3 in prior code) - Requirements When Sprinkler Systems are Included

Current building code only requires a 1/2 hour rating for Dryerbox® installation when used in conjunction with a sprinkler system. You may find the full, relevant code excerpt below. To achieve a half hour rating, **you only need to build out using Firestop System Configuration A Wall Assembly Components** which are even simpler.

(1 Hour Rating Requires Configuration B as outlined above)

708.3 Fire-resistance rating. Fire partitions shall have a fire-resistance rating of not less than 1 hour.

Exceptions:

1. Corridor walls permitted to have a 1/2 hour fire-resistance rating by Table 1018.1.
2. Dwelling unit and sleeping unit separations in buildings of Type IIB, IIIB and VB construction shall have fire-resistance ratings of not less than 1/2 hour in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

SECTION 1018 CORRIDORS

1018.1 Construction.

Corridors shall be fire-resistance rated in accordance with Table 1018.1. The *corridor* walls required to be fire-resistance rated shall comply with Section 708 for *fire partitions*.

Exceptions:

1. A *fire-resistance rating* is not required for *corridors* in an occupancy in Group E where each room that is used for instruction has at least one door opening directly to the exterior and rooms for assembly purposes have at least one-half of the required *means of egress* doors opening directly to the exterior. Exterior doors specified in this exception are required to be at ground level.
2. A *fire-resistance rating* is not required for *corridors* contained within a dwelling or sleeping unit in an occupancy in Group R.
3. A *fire-resistance rating* is not required for *corridors* in open parking garages.
4. A *fire-resistance rating* is not required for *corridors* in an occupancy in Group B which is a space requiring only a single *means of egress* complying with Section 1015.1.
5. *Corridors* adjacent to the *exterior walls* of buildings shall be permitted to have unprotected openings on unrated *exterior walls* where unrated walls are permitted by Table 602 and unprotected openings are permitted by Table 705.8.

TABLE 1018.1 CORRIDOR FIRE-RESISTANCE RATING

| OCCUPANCY | OCCUPANT LOAD SERVED BY CORRIDOR | REQUIRED FIRE-RESISTANCE RATING (hours) | |
|------------------------|----------------------------------|---|------------------------------------|
| | | Without sprinkler system | With sprinkler system ^c |
| H-1, H-2, H-3 | All | Not Permitted | 1 |
| H-4, H-5 | Greater than 30 | Not Permitted | 1 |
| A, B, E, F, M, S, U | Greater than 30 | 1 | 0 |
| R | Greater than 10 | Not Permitted | 0.5 |
| I-2 ^a , I-4 | All | Not Permitted | 0 |
| I-1, I-3 | All | Not Permitted | 1 ^b |

a. For requirements for occupancies in Group I-2, see Sections 407.2 and 407.3.

- b. For a reduction in the *fire-resistance rating* for occupancies in Group I-3, see Section 408.8.
- c. Buildings equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1 or 903.3.1.2 where allowed.

Additional Firestopping Details

You may find ancillary white papers and engineering letters on the **Architects & Engineers** pages in addition to the engineering letters below that detail back to back installation options.



2006 Code
Back to Back Installation for 1 Hour Walls
Engineering specifications for installing the Dryerbox in both sides of a one hour fire-resistance rated wall assembly.



2009 Code
Back to Back Installation for 1 Hour Walls
Engineering specifications for installing the Dryerbox in both sides of a one hour fire-resistance rated wall assembly.

