



To whom it concerns:

This letter addresses confusion that may exist as to which types of fire-classified penetration products “T” (temperature rise) and “F” (flame occurrence) ratings are applicable and to which types such ratings are not applicable. There are many products on the market that penetrate fire-rated structures, e.g. walls or floors, and ultimately the product type dictates which tests and standards are applicable.

Firestop devices and materials that surround penetrations through a floor or wall, such putties, are used in spaces like electrical rooms or closets or IT equipment rooms. Since these firestop products are only used to seal the gaps surrounding pass-throughs into separate spaces, they are evaluated and Classified to UL Standard *UL 1479* in the U.S. and to ULC Standard *ULC-S115* in Canada. Such firestop devices and materials are Classified in UL Category Codes “**XHJI**” (U.S.) and “**XHJI7**” (Canada) and in ULC Category Code “**XHJIC**” (Canada). Such devices and materials are not Listed electrically.

The *UL 1479* and *ULC-S115* standards require firestop products to be tested with the variety of structures and types of services that are to be passed through. Because “T” and “F” ratings vary with the range of structures (drywall, concrete, or brick) and services (power or data), specific “T” and “F” ratings must be published for coordination of these ratings. As explicitly stated in the scope of *UL 1479*:

*“These requirements **do not cover** devices that penetrate fire resistive floors and walls but terminate on the opposite side, as, for example, an **outlet box and fitting.**”*

By contrast, Fire-Rate Poke-Thru devices [FRPTs] are through concrete floor penetrations designed to bring power, communications, and audio/video (A/V) services without compromising the fire rating established for the concrete floor as a constructional system. These FRPT are assemblies that incorporate self-contained intumescent materials that swell when heated to seal off fire spread between spaces. FRPTs do not require additional firestop devices or materials; when FRPTs are installed in accordance with instructions, there are no surrounding gaps to be sealed against flame spread.

FRPTs are evaluated and Listed ELECTRICALLY to UL Standard *UL 514A* in the U.S. and to CSA Standard *CSA-C22.2 No. 18.1* in Canada to serve as **electrical outlet boxes**. Such FRPTs are Listed in UL Category Codes “**QCIT**” (U.S.) and “**QCIT7**” (Canada) or in CSA Product Classes “**4411 01**” and “**4412 01**” (Canada) and “**4411 81**” and “**4412 81**” (U.S.).

FRPTs are FURTHER evaluated and Classified for FIRE RESISTANCE to UL Standard *UL 263* in the U.S. and to ULC Standard *ULC-S101* in Canada. FRPTs are Classified in UL Category Codes “**CEYY**” and/or “**QBWY**” (U.S.) and “**CEYY7**” (Canada) and in ULC Category Code “**CEYYC**” (Canada). These through floor penetration products are evaluated by UL for use in concrete floor structure “Designs” that each has a specific fire-resistance rating, expressed in hours, established in UL Category Code “**BXUV**” (U.S.) and in ULC Category Code “**BXUVC**” (Canada).



The *UL 263* and *ULC-S101* standards are specified such that the fire-resistance rating of the FRPT must be equal to or better than the fire-resistance rating of the “Floor Design” itself. Because of this; **UL and ULC do not publish “T” or “F” ratings for FRPTs, which are evaluated and Classified to *UL 263* and *ULC-S101* standards and NOT to *UL 1479* and *ULC-S115* standards; UL and ULC publish HOUR RATINGS for FRPTs.** For example: the S1R6PT series FRPTs have been tested and Classified to *UL 263* and *ULC-S101* for use in floors rated for 1-, 1½-, or 2-hour ratings, which means that the S1R6PT series effectively has a 2 hour “T” rating and a 2 hour “F” rating for concrete floors.

All of Hubbell’s FRPT devices are UL and ULC Listed and Classified for use in at least a 2-hour fire rated concrete floor structure. Some Hubbell FRPTs carry ratings as high as 4 hours.

Below are links to published Certification Records showing that UL and ULC have Classified Hubbell FRPTs for use in fire rated floors.

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### **CERTIFICATION HOTLINKS**

UL FIRE RESISTANCE Classifications for U.S. (UL File R8429) of Hubbell FRPTs:

[http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=CEYY.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Certified+for+Fire+Resistance&objid=1074333227&cfgid=1073741824&version=versionless&parent\\_id=1073984997&sequence=1](http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=CEYY.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Certified+for+Fire+Resistance&objid=1074333227&cfgid=1073741824&version=versionless&parent_id=1073984997&sequence=1)

[http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=QBWY.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Certified+for+Fire+Resistance&objid=1074114412&cfgid=1073741824&version=versionless&parent\\_id=1073991679&sequence=1](http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=QBWY.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Certified+for+Fire+Resistance&objid=1074114412&cfgid=1073741824&version=versionless&parent_id=1073991679&sequence=1)

UL FIRE RESISTANCE Classifications for Canada (UL File R8429) of Hubbell FRPTs:

[http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=CEYY7.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Certified+for+Fire+Resistance+Certified+for+Canada&objid=1076496022&cfgid=1073741824&version=versionless&parent\\_id=1073984999&sequence=1](http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=CEYY7.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Certified+for+Fire+Resistance+Certified+for+Canada&objid=1076496022&cfgid=1073741824&version=versionless&parent_id=1073984999&sequence=1)

ULC FIRE RESISTANCE Classifications for Canada (UL File R8429) of Hubbell FRPTs:

[http://database.ul.com/cgi-bin/XYV/template/LISCANADA/1FRAME/showpage.html?name=CEYYC.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Classified+for+Fire+Resistance&objid=1081297958&cfgid=1073741824&version=versionless&parent\\_id=1075961926&sequence=1](http://database.ul.com/cgi-bin/XYV/template/LISCANADA/1FRAME/showpage.html?name=CEYYC.R8429&ccnshorttitle=Outlet+Boxes+and+Fittings+Classified+for+Fire+Resistance&objid=1081297958&cfgid=1073741824&version=versionless&parent_id=1075961926&sequence=1)



UL ELECTRICAL Listings for U.S. (UL File E31999) of Hubbell metal outlet boxes including Hubbell FRPTs:

[http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=QCIT.E31999&ccnshorttitle=Metallic+Outlet+Boxes&objid=1074114613&cfgid=1073741824&version=versionless&parent\\_id=1073991686&sequence=1](http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=QCIT.E31999&ccnshorttitle=Metallic+Outlet+Boxes&objid=1074114613&cfgid=1073741824&version=versionless&parent_id=1073991686&sequence=1)

UL ELECTRICAL Listings for Canada (UL File E31999) of Hubbell metal outlet boxes including Hubbell FRPTs:

[http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=QCIT7.E31999&ccnshorttitle=Metallic+Outlet+Boxes+Certified+for+Canada&objid=1074196308&cfgid=1073741824&version=versionless&parent\\_id=1073991689&sequence=1](http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=QCIT7.E31999&ccnshorttitle=Metallic+Outlet+Boxes+Certified+for+Canada&objid=1074196308&cfgid=1073741824&version=versionless&parent_id=1073991689&sequence=1)

CSA ELECTRICAL Listings for Canada (CSA File LR18416C) of Hubbell metal outlet boxes including Hubbell FRPTs:

[http://www.csagroup.org/ca/en/services/testing-and-certification/certified-product-listing/certificate/018416\\_C\\_000%257C4411-01](http://www.csagroup.org/ca/en/services/testing-and-certification/certified-product-listing/certificate/018416_C_000%257C4411-01)

[http://www.csagroup.org/ca/en/services/testing-and-certification/certified-product-listing/certificate/018416\\_C\\_000%257C4412-01](http://www.csagroup.org/ca/en/services/testing-and-certification/certified-product-listing/certificate/018416_C_000%257C4412-01)

CSA ELECTRICAL Listings for U.S. (CSA File LR18416C) of Hubbell metal outlet boxes including Hubbell FRPTs:

[http://www.csagroup.org/ca/en/services/testing-and-certification/certified-product-listing/certificate/018416\\_C\\_000%257C4411-81](http://www.csagroup.org/ca/en/services/testing-and-certification/certified-product-listing/certificate/018416_C_000%257C4411-81)