



**ASTM E84 – Surface Burning Characteristics**

Products	Limitations	Flame Spread Index	Smoke Developed Index
AquaPEX™ (natural, red, blue) <sup>*</sup> hePEX™ helioPEX™ X2	Maximum 3/4-inch nominal diameter tubing; 18-inch minimum spacing between adjacent runs of tubing	< 25	< 50
RCW PEX™ ProPEX™ EP Fittings ProPEX™ EP MultiPort Tees PEX rings ProPEX™ EP Connectors ProPEX™ CPVC Adapters and Valves	Maximum 3-inch nominal diameter piping products and accessories, installed with approved minimum ½-inch thickness pipe insulation <sup>°</sup> ; No spacing requirements between adjacent runs.	< 25	< 50

**CAN/ULC S102 – Surface Burning Characteristics**

Product	Limitations	Flame Spread Index	Smoke Developed Index
AquaPEX™ (natural, red, blue) <sup>*</sup> hePEX™ helioPEX™ X2	Maximum 1-inch nominal diameter tubing; 18-inch minimum spacing between adjacent runs of tubing.	< 25	< 50
RCW PEX™ ProPEX™ EP Fittings ProPEX™ EP	Maximum ½-inch nominal diameter tubing; No spacing requirements between adjacent runs.	< 25	< 50
MultiPort Tees PEX rings ProPEX™ EP Connectors ProPEX™ CPVC Adapters and Valves	Maximum 3-inch nominal diameter pipe products and accessories, installed with approved minimum ½-inch pipe insulation <sup>°</sup> ; No spacing requirements between adjacent runs.	< 25	< 50

**Note**<sup>\*</sup>: Different sizes and different colors corresponding to AquaPEX™, hePEX™, and helioPEX™ X2 are dependent on manufacturer's availability

**Note**<sup>°</sup>: List of approved pipe insulation providers:

The following list of fiberglass insulation types (at minimum thickness of ½") are approved for use with UPONOR's hePEX, AquaPEX, and helioPEX X2 products when installed with UPONOR fittings and valves to maximum sizes outlined in tables above. The insulations noted must be Listed to ASTM C547 by an approved agency and are approved for use at the dimension specified above.

Insulation	Flame Spread Index	Smoke Developed Index
	(according to ASTM E84 / CAN/ULC S102.2)	
Manson Alley-K	< 25	< 50
Armaflex Composite		
Johns Manville Micro-Lok		
Johns Manville Micro-Lok HP		
Owens Corning Vapor Wick		
Owens Corning Fiberglass		
GLT Pipe and Tank		
Knauf Earthwool Redi-Klad		
Nomalock		

**UL 263, ASTM E119, CAN/ULC S101 – Wall Assemblies**

QAI Design #	Wall Type:	Wall Load:	Fire Endurance Period:
<a href="#">P321-1A</a>	Light Gauge Steel Stud	Non-Load Bearing	1 hour
<a href="#">P321-1B</a>	Wood Dimensional Lumber Stud	Restricted Load Bearing	
<a href="#">P321-1G</a>	Light Gauge Steel Stud	Non-Load Bearing	2 hour
<a href="#">P321-1H</a>	Wood Dimensional Lumber Stud	Non-Load Bearing	

**UL 263, ASTM E119, CAN/ULC S101 – Floor/Ceiling Assemblies**

QAI Design #	Floor/Ceiling Type:	Floor Load:	Fire Endurance Period:
<a href="#">P321-1C</a>	Concrete	Restricted Load Bearing	2 hour
<a href="#">P321-1D</a>	Concrete <sup>d</sup>	Restricted Load Bearing	
<a href="#">P321-1E</a>	Concrete/Steel Joist	Load Bearing	
<a href="#">P321-1F</a>	Wood Joist	Restricted Load Bearing	1 hour

Note<sup>d</sup>: Either a 1-1/2 hour or 2 Hour Assembly

Note: These products are subjected to limitations as specified above and must be installed in accordance with the manufacturers' instructions. Authorities having jurisdiction should be consulted regarding allowable applications. See manufacturer's listings for other standards listed under QAI certification programs.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI.

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