

Table 3: matrix of PFP Uses (source: "Assessment of Passive Fire Protection in Seveso Facilities")

	Good if detailed correctly
	Can be/has been used but not preferable
	Not recommended
	Not applicable or unlikely to be used

PFP Type	PFP Systems	Protected Items																				
		Steelwork	Buildings and Enclosure	Barriers	Vessels		Vessel Supports				Pipework		Pipework Supports			Flanges	Valves and Actuators	Control System Lines				
	<i>This table gives an indication for the use of PFP on several assets.</i>				High Pressure	Low Pressure	Saddles	Skirts	Frames	Legs	High Pressure	Low Pressure	Pedestal	Shoe	Hanger	Steel Frame			Cables	Pneumatic and hydraulic		
Applied Coatings	Concrete																					
	Lightweight Cementitious (LWC)																					
	Epoxy Intumescent																					
	Subliming Epoxy																					
Dry-Fit Systems	Cladding or panels manufactured from pre-cast epoxy intumescent material																					
	Carbon/stainless steel external skin, with Man Made Mineral Fibre (MMMF) insulation																					
	Structural GRP composite panels with internal insulation such as phenolic resin																					
	Flexible jacket systems.																					
	Proprietary structural systems manufactured from steel and LWC material (e.g. Durasteel)				Only if used as a barrier to protect an item by shielding																	
	Steel mesh construction for thermal radiation shielding only				Only if used as a barrier to protect an item by providing radiation shielding																	
	Fire resistant board for internal segregation/partitions or steelwork cladding.				Not suitable																	

Wet-Applied Duplex Systems	Syntactic phenolic + GRP outer protective layer	Green	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Blue	Green	Green	Blue	Blue	Blue
	Syntactic epoxy thermal insulation + epoxy intumescent coating outer protective layer	Green	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Blue	Green	Green	Blue	Blue	Blue
	Mineral wool or AES blanket + epoxy intumescent coating outer protective layer	Blue	Blue	Blue	Red	Red	Blue	Blue	Blue	Blue	Red	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
	Mineral wool or AES blanket + LWC or Concrete outer protective layer	Blue	Blue	Blue	Red	Red	Blue	Blue	Blue	Blue	Red	Red	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
	Cellular glass + epoxy intumescent coating outer protective layer	Green	Blue	Green	Green	Green	Green	Green	Blue	Blue	Green	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
Pipe Penetrations and Cable Transits	Certified Gaiter Type (e.g. Bestobell)	Blue	Green	Green	Only used to penetrate a barrier															
	Certified Mastic Sealing (e.g. Rise)	Blue	Green	Green	Only used to penetrate a barrier															
	Certified Pipe Collars (e.g. Roxtec)	Blue	Green	Green	Only used to penetrate a barrier															
	Other certified bespoke designs	Blue	Green	Green	Only used to penetrate a barrier															
	Other non-certified Bespoke Designs	Blue	Green	Green	Only used to penetrate a barrier															
	Cable Transits	Blue	Green	Green	Only used to penetrate a barrier															
Other Penetrations through barriers	Doors (Fire rated, Fire and Blast rated etc.)	Blue	Green	Green	Only used to penetrate a barrier															
	Windows (Fire rated, Fire and Blast rated etc.)	Blue	Green	Green	Only used to penetrate a barrier															
	Ducts (including short sections which support dampers)	Blue	Yellow	Yellow	Only used to penetrate a barrier															
Others	Brick protection	Yellow	Yellow	Yellow	Blue	Blue	Yellow	Yellow	Blue	Yellow	Only if used as a barrier to protect an item by shielding									
	Earth protection	Blue	Yellow	Blue	Yellow	Yellow	Only if used as a barrier to protect an item by shielding													