

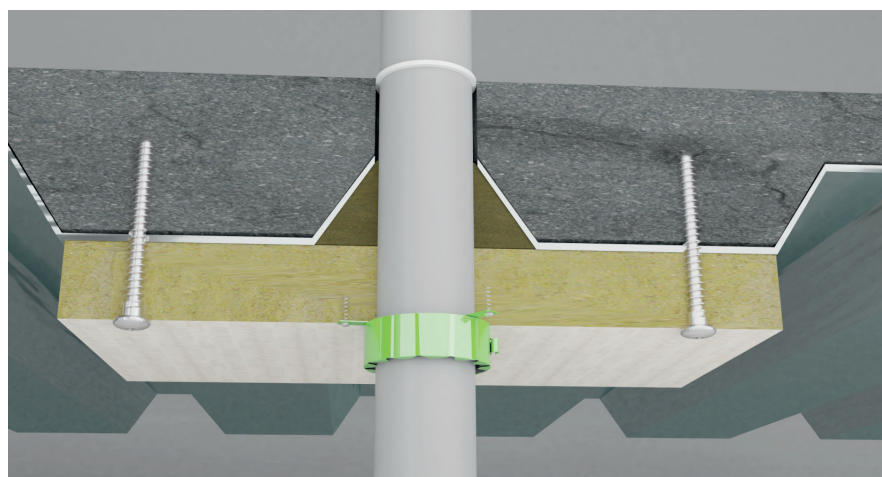
## Profiled Composite Steel Decks When Penetrated by Plastic Pipes

120 Minutes Integrity and Insulation Fire Resistance Performance

Utilising **FSi's** extensive fire resistance testing evidence performed in accordance with European, Australian and other recognised international fire test standards and Certification schemes, Element Warrington Fire have been commissioned to produce a bespoke approval, specific to the installation of plastic pipes passing through profiled steel composite decks, Warrington Fire Report WF 4242912.

The system is unique within the industry as there is currently no formal mechanism to test and certificate the full scope of penetrating items within this application or supporting substrate.

Utilising fire engineering principles and referencing many years of corroborative fire testing reports both nationally and internationally, provided the independent certification body Warrington Fire the ability to perform the complex evaluation.



*The system briefly comprises the use of PipeBloc® PCP Collars and Stopseal® Battis*

The available pipe configurations and types are briefly summarised below

PVC Pipes	PE Pipes	PP Pipes
PVC Pipe 32 mm ø 1.8mm wall thickness	PE Pipe 32 mm ø 2.9 mm wall thickness	PP Pipe 32 mm ø 2.9 mm wall thickness
PVC Pipe 40 mm ø 1.8mm wall thickness	PE Pipe 40 mm ø 2.9 mm wall thickness	PP Pipe 40 mm ø 2.9 mm wall thickness
PVC Pipe 50 mm ø 1.8mm wall thickness	PE Pipe 50 mm ø 2.9 mm wall thickness	PP Pipe 50 mm ø 2.9 mm wall thickness
PVC Pipe 55 mm ø 2.3-3.0 mm wall thickness	PE Pipe 55 mm ø 2.9-4.4mm wall thickness	PP Pipe 55 mm ø 2.9-4.4mm wall thickness
PVC Pipe 63 mm ø 2.3-3.0 mm wall thickness	PE Pipe 63 mm ø 2.9-4.4mm wall thickness	PP Pipe 63 mm ø 2.9-4.4mm wall thickness
PVC Pipe 75 mm ø 3.1-4.8 mm wall thickness	PE Pipe 75 mm ø 2.8-6.7mm wall thickness	PP Pipe 75 mm ø 2.8-6.7mm wall thickness
PVC Pipe 82 mm ø 3.1-4.8 mm wall thickness	PE Pipe 82 mm ø 2.8-6.7mm wall thickness	PP Pipe 82 mm ø 2.8-6.7mm wall thickness
PVC Pipe 90 mm ø 4.2-7.4 mm wall thickness	PE Pipe 90 mm ø 2.7-10.0mm wall thickness	PP Pipe 90 mm ø 2.7-10.0mm wall thickness
PVC Pipe 100 mm ø 4.2-7.4 mm wall thickness	PE Pipe 100 mm ø 2.7-10.0 mm wall thickness	PP Pipe 100 mm ø 2.7-10.0 mm wall thickness
PVC Pipe 110 mm ø 4.2-7.4 mm wall thickness	PE Pipe 110 mm ø 2.7-10.0mm wall thickness	PP Pipe 110 mm ø 2.7-10.0 mm wall thickness
PVC Pipe 125 mm ø 6.0mm wall thickness	PE Pipe 125 mm ø 3.1mm wall thickness	PP Pipe 125 mm ø 3.1mm wall thickness
PVC Pipe 140 mm ø 6.1-7.5 mm wall thickness	PE Pipe 140 mm ø 3.9-5.8mm wall thickness	PP Pipe 140 mm ø 3.5-8.0mm wall thickness
PVC Pipe 160 mm ø 6.2-9.5 mm wall thickness	PE Pipe 160 mm ø 4.9-9.5mm wall thickness	PP Pipe 160 mm ø 4.0-14.6 mm wall thickness