

RF (Radio Frequency) Shielded Fire Rated Doors – Test Report



1. Summary (see appendix A)

This document confirms that two full size door sets were tested in a full scale fire resistance test performed by Cambridge Fire Research in accordance with BS EN 1634-1: 2014. A brief summary of the tested specimen and the result achieved is given below.

Specimen

A latched, single-acting single-leaf door set comprising a European EMC Products Inward opening RF shielded steel door in a steel frame face fixed to a high density rigid construction clad with 6mm steel plate on the door set side. Leaf size – 2155(h) x 1058(w) x 45(d)mm. The door was made from 3mm galvanized steel.

Hardware:

3 No. cranked steel hinges 225(w) x 100(h) x 5(t) blade on leaf and 40(w) x 40(d) x 100(h) x 5(t) angle on frame. Lever handle operating two steel bolts locking mechanism Seals: Beryllium copper fingers between leaf and frame and a rolled steel wool gasket between frame and plate.

Orientation

Left hand door set opening towards the heating conditions. Right hand door set opening away from heating conditions.

Results

Inward opening door Outward opening door Integrity: Gap gauge: 132* minutes 132* minutes Sustained flaming: 132* minutes 132* minutes Cotton pad: 53 minutes 104 minutes Insulation: 24 minutes 19 minutes *No failure the test having been terminated at 132 minutes at the request of the sponsor.

2. Location

Cambridge Fire Research Ltd
Brewery Road
Pampisford
Cambridge CB22 3HG

3. Date

14th May 2015

4. Conclusion

The EEP doors passed 2 hour non insulated fire test for integrity fire doors. As we exceeded 1 hr 8 min we can use the result on doors up to 20% larger for 1 hour rating.

RF (Radio Frequency) Shielded Fire Rated Doors – Test Report

Test Photos (During Fire)



RF (Radio Frequency) Shielded Fire Rated Doors – Test Report

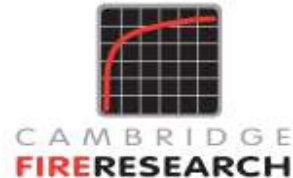
Post Test Photos



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TEST CONFIRMATION

TEST REF. CFR 1505141



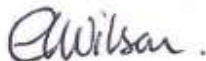
This document confirms that two full size doorsets were tested in a full scale fire resistance test performed by Cambridge Fire Research in accordance with BS EN 1634-1: 2014 on 14th May 2015. A brief summary of the tested specimen and the result achieved is given below.

Sponsor	European EMC Products Ltd., Unit 8 Saffron Business Centre, Elizabeth Close, Saffron Walden, Essex CB10 2NL	
Specimen	<p>A latched, single-acting single-leaf doorset comprising a European EMC Products Inward opening RF shielded steel door in a steel frame face fixed to a high density rigid construction clad with 6mm steel plate on the doorset side.</p> <p>Leaf size – 2155(h) x 1058(w) x 45(d)mm. The door was made from 3mm galvanized steel.</p> <p>Hardware: 3No. cranked steel hinges 225(w) x 100(h) x 5(t) blade on leaf and 40(w) x 40(d) x 100(h) x 5(t) angle on frame. Lever handle operating two steel bolts locking mechanism</p> <p>Seals: Beryllium copper fingers between leaf and frame and a rolled steel wool gasket between frame and plate.</p>	
Orientation	Left hand doorset opening towards the heating conditions. Right hand doorset opening away from heating conditions.	
Results	Inward opening door	Outward opening door
	Integrity:	
	Gap gauge: 132* minutes	132* minutes
	Sustained flaming: 132* minutes	132* minutes
	Cotton pad: 53 minutes	104 minutes
	Insulation: 24 minutes	19 minutes
	*No failure the test having been terminated at 132 minutes at the request of the sponsor.	

THIS IS NOT A TEST REPORT OR CERTIFICATE

The above result relates only to the particular doorset specimens (i.e. frame, door leaf, hardware and seals) and orientation tested.

Please note that the above summary does not satisfy the report requirements specified in BS EN 1634-1: 2014 and therefore should not be presented as evidence of fire resistance or be used for the purpose of a design appraisal. Full details of the above test will be found within Cambridge Fire Research report ref. CFR 1505141.



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About Us

Established in 1996, European EMC Products (EEP) are an established British company whose experience and understanding of the science of shielding makes it an ideal partner in whom you can place your trust with confidence. The purpose of installing EEP shielding systems is to protect people and equipment against the threats posed by electromagnetic and radio frequency (RF) interference, radiation, magnetic fields and electromagnetic pulses. Our diverse range of turnkey products and services, including design, project management, testing and consultancy are delivered across multiple sectors to an international client base.

Quality

European EMC Products Limited are registered to BS EN ISO 9001:2015, Certificate Number FS38901.

Registered Scope: The design, assembly, installation, servicing and testing of RF Shielded Structures and equipment including EMI Shielding, Blast Doors, Gas Tight Doors and specialised mobile Electromagnetic Pulse Protection (EMPP) containers.

Radio Frequency, Magnetic Shielding and Quench systems for MRI (Magnetic Resonance Imaging) scanners.

The design, assembly and installation of Ionising Radiation Protection facilities.

The design, manufacture and installation of LED lighting systems for medical applications.

EEP Filters Limited are registered to BS EN ISO 9001:2015, Certificate Number FS38901.

Registered Scope: The design, manufacture, management of installation and testing of high performance EMC and EMP Power and Data Line Filters.

Disclaimer

NB: All the information provided within this datasheet is for reference only. Product specifications are subject to change without notice.