RIDGE

FIRE-STOPPING WORKS
HORNIMAN MUSEUM

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Prepared for

Horniman Museum

100 London Road
Forest Hill
London
SE23 3PQ

Prepared by

Ridge and Partners LLP

3 Valentine Place
London
SE1 8QH

Tel: 020 7593 3400

Contact

Keith Todd

Salaried Partner

keithtodd@ridge.co.uk

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1. OBJECTIVE

The purpose of this document is to provide a specification against which contractors can bid to carry out fire-stopping works at the Horniman Museum, for both the SCC building and the main Museum.

The principal objective of the work is to improve passive fire protection in the SCC building, which is a Victorian school building used for storage of historical artefacts, and the main Museum, which is Grade II* Listed and is a major public attraction.

2. CONTRACTOR COMPETENCE

The Horniman Museum seeks contractors who can demonstrate competence by virtue of third-party certification against a recognized competency scheme for passive fire protection. These may include the following schemes:

- LPS 1531.
- Q-Mark by BM Trada.
- FIRAS Certification.
- IFC Certification.

The contractor must be able to demonstrate certification by a recognized scheme and must commit to deliver the works in accordance with the Scheme requirements.

The contractor will design and deliver all works in accordance with their relevant Scheme accreditation.

3. OUTLINE SPECIFICATION

The works required can be summarized within four distinct workstreams:

3.1. Fire doors

Across the two sites, there is a significant quantity of fire door remedial works needed. These generally include minor repairs, such as replacement or fitting of self-closing devices, installation of intumescent strips and cold smoke seals, adjustment of doors that are binding, repair of doors that are warped, and other routine items. In these cases, it is recognized that the doors may not fully meet modern standards for the purposes of certification, but the purpose of the remedial works is to improve the notional performance of existing doors.

Additionally, in some areas of the buildings, new fire-resisting doors and door sets are required, in some cases to be accompanied by newly constructed fire-resisting screens. In such instances,

suppliers should assume that doors to be provided meet the standard for E-30-Sa self-closing doors and any walls and screens should meet the standard for REI60. The Horniman Museum require that contractors be able to provide suitable evidence, supported by primary testing carried out on door sets, to demonstrate that the doors and associated hardware, fixtures and fittings can meet the required standard.

3.2. Fire-stopping

The principal objective of fire-stopping within this phase of work is to improve passive fire protection, particularly to places of special fire hazard (such as boiler rooms) and upgrade of passive fire protection in store rooms, electrical cupboards as well as other areas, as necessary.

The majority of the fire-stopping required will include:

- Penetration seals.
- Seals around cables.
- Seals and/or collars around pipes.
- Fire-stopping around ducts and flues passing through fire-separating elements.
- Fire-stopping at junctions of walls and ceilings or roofs.

The contractor should assume that the standard to be achieved for fire-stopping is at least EI60 but in some areas may need to meet EI90.

3.3. Fire-resisting glazing

In a small number of areas, upgrade or over-boarding of existing glazing with new fire-resisting glazing is required.

In these areas, contractors should assume that the required standard for fire-resisting glazing, where needed, is EI30.

3.4. Loft sub-division

Within the SCC building, there is a loft space that currently has no sub-division. Contractors are required to price for design and installation of a suitable system of sub-division that can meet the performance requirements of improving sub-division whilst being able to be delivered within the constraints of the existing loft.

It is envisaged that contractors will design a system of non-loadbearing vertical and potentially horizontal fire barriers in line with solid masonry walls located beneath the loft, as well as any cavity barriers or similar required to achieved successful sub-division of the loft.

The system needed should achieve EI60 standard of fire-resistance.

4. PRICING

For the purposes of tender evaluation, contractors are invited to submit general prices for the supply and installation of products/materials as follows:

Element	Price
E-30-Sa door 850mm wide openable leafs fitting with self-closing device, to include certified frame and hardware and all relevant fire-stopping.	
E-30-Sa double door set 1500mm wide openable leafs fitting with self-closing device, to include certified frame and hardware and all relevant fire-stopping.	
Overhead self-closing device to existing door.	
Fitting of intumescent strips and cold smoke seals to existing single door set.	
Removal of barrel lock and infill with materials that are capable of achieving E30.	
Construction of fire-resisting screen achieving REI60, price per square metre.	
Fire-stopping around cable – EI60.	
Fire-stopping around cable – EI90.	
Fire-stopping collar – uPVC pipe – EI60.	
Fire-stopping collar – uPVC pipe – EI90.	
Fire-stopping – cast iron pipe – EI60.	
Fire-stopping – cast iron pipe – EI90.	
Fusible link fire damper – EI60.	
Fusible link fire damper – EI90.	
Fire-stopping at junctions between walls / ceilings, price per metre.	
Fire-resisting glazing, price per square metre (including fitting).	
Non-loadbearing fire-resisting curtains, price per square metre (including fitting) – EI30.	

Non-loadbearing fire-resisting curtains, price per square metre (including fitting) – EI60.	

5. HEALTH AND SAFETY

The following matters need to be considered by the fire-stopping designer / contractor and suitable systems of safe working applied:

- Working at height
- Asbestos containing materials
- Working in areas containing hazards such as live electrics and gas
- Working in loft spaces
- Working in occupied buildings, with staff and/or members of the public
- Permit arrangements (including for any proposed hot works)
- Any other relevant matters

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