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1 Purpose

- 1.1 The purpose of this standard is to define the performance requirements for finishes systems to ceilings, roofs, walls, floors, access covers and cable management systems (CMS), in public and non-public areas on all LU premises.

2 Scope

- 2.1 This standard applies to all new and altered ceilings, roofs, walls, floors, access covers and CMS in all London Underground (LU) premises. These are defined as finishes systems.
- 2.2 The scope of this standard excludes the primary structure to which the finishes systems may be fixed, but includes the fixing elements. Refer to S1063 Civil Engineering – Cutting, grinding, drilling, fixing to and supporting from existing structures.
- 2.3 For surface coatings, refer to G0230 Good Practice Guide for the Application of Surface Coatings to Premises.
- 2.4 For finishes systems' loading requirements refer to S1053 Building and Station Structures.
- 2.5 For building drainage design requirements, refer to S1052 Civil Engineering – Gravity Drainage Systems and S1056 Civil Engineering – Pump Drainage Systems.
- 2.6 Finishes systems shall be designed and specified for the location in which they are to be installed. The requirements of this standard primarily apply to public facing assets. For finishes systems within staff and maintenance areas, the design and specification shall be demonstrably fit for purpose, in accordance with the appropriate standards.

Note: This standard is supported by G0135 Guidance on Premises Finishes
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3 Requirements

3.1 General Requirements

- 3.1.1 Ceilings, roofs, walls, floors, access covers and CMS shall comply with the Building Regulations and shall consider Security in Design of Stations (SIDOS) Guide. Where any conflicts arise between the Building Regulations, SIDOS and this Standard, compliance with this Standard shall take precedence except where a breach in the law would arise.
- 3.1.2 Colours to finishes shall be in accordance with the LU standard 1-282 Corporate Visual Identity. Refer also to the Stations Design Idiom (in development at time of publication of this Standard) for guidance on materials, colours and finishes.
- 3.1.3 The Design Life for finishes shall be stated in Operations and Maintenance manuals where cyclical replacement is appropriate.

- 3.1.4 The Service Life Planning of any ceilings, roofs, walls, floors, access covers and CMS component shall comply with BS ISO 15686-1 & BS ISO 15686-2. The design life for major replaceable components in public areas shall be a minimum of 40 years.
- 3.1.5 Whole Life Costs shall be applied in the decision making when comparisons are being made between alternative materials for finishes. Refer to CIRIA C677 Whole-life infrastructure asset management: good practice guide for civil infrastructure.
- 3.1.6 Supports and fixings to finishes shall have as good as or longer service life than the finish.
- 3.1.7 Movement between materials/components and the relevant supporting structures shall be predicted and accommodated.
- 3.1.8 All finishes in areas where there is a risk of a graffiti attack shall be graffiti resistant. Refer to G0135 Guidance on Premises Finishes.
- 3.1.9 Fixings to finishes shall minimise the risk of bimetallic corrosion.
- 3.1.10 All services beneath, behind or above any finish shall be accessible.
- 3.1.11 Provision shall be made for the inspection and maintenance of structures located behind finishes. Finishes installed to existing assets shall not diminish the inspectability and maintainability of the structure.
- 3.1.12 Finishes shall be capable of transmitting the imposed loads to the structure.
- 3.1.13 Where handrails, posts, furniture or similar items are used in public areas, the interface with the finish shall be cleanly trimmed.
- 3.1.14 Wall, floor, ceiling, access cover and CMS finishes shall be modular to facilitate replacement when localised damage occurs or when any item of furniture or equipment is removed.
- 3.1.15 There shall be a cleaning regime appropriate to the materials used to all roofs, walls, floors, ceilings, access covers and CMS.
- 3.1.16 All cleaning regimes shall identify the cleaning materials to be recommended or to be used.
- 3.1.17 Cleaning materials shall not reduce the performance or service life of any finish with which they come into contact.
- 3.1.18 A maintenance regime that will maximise asset life shall be stated in relevant Operations and Maintenance manuals.
- 3.1.19 Any material which is used in the construction of an internal wall or ceiling in any public area of a sub-surface station must be of limited combustibility in accordance with The Fire Precautions (Sub-surface Railway Stations) (England) Regulations 2009.

3.2 Roofs

- 3.2.1 Key equipment rooms such as SER's and CER's are high risk in the event of water ingress and roof systems shall be designed, installed and maintained to ensure that any risk of water ingress as a consequence of roof finishes failure is minimised.
- 3.2.2 The roof design shall provide adequate falls to the finishes to allow for rainwater discharge to prevent ponding or water ingress.
- 3.2.3 The roof design shall provide thermal insulation to control heat loss and condensation.
- 3.2.4 The roof design shall incorporate the discharge of rainwater into existing or new drainage.
- 3.2.5 A safe means of access for inspection & maintenance shall be provided.
- 3.2.6 Where regular maintenance access across a roof is required, a safe walkway shall be defined and roof finishes suitably protected.

3.3 Walls

- 3.3.1 Walls shall have an Impact and Abrasion Resistance as given in Attachment 1.
- 3.3.2 Walls shall have a Cleanability Rating as given in Attachment 1.
- 3.3.3 Walls required to resist unauthorised access shall be designed to minimise the risk of access. Security devices also shall be installed commensurate with the level of risk.
- 3.3.4 Walls containing security doors, windows and screens shall be designed to ensure that those doors, windows and screens are retained in the event of attack.
- 3.3.5 Skirtings shall be sufficiently robust to withstand the cleaning process.
- 3.3.6 Walls may be required to form a fire compartment. Refer to the appropriate Fire Safety standards 1-081, 1-083 and 1-085. Refer also to G0137 Walls and Partitions in Sub Surface Stations.
- 3.3.7 Wall copings and window sills shall be designed to safely shed any significant item placed on the top.
- 3.3.8 Wall louvres which require to be intruder resistant shall be provided in accordance with Loss Prevention Standard LPS 1175 security rating 3 or equivalent.

3.4 Floors

- 3.4.1 Flooring shall be free from trip-hazards. Refer to BS 8300 and CIRIA C652, Safer surfaces to walk on – reducing the risk of slipping.
- 3.4.2 Floor tiles shall be demonstrably fit for purpose in terms of cleanability, wear resistance and impact resistance.