



SCDF
The Life Saving Force
... for a safer Singapore

SINGAPORE CIVIL DEFENCE FORCE



Date : 14 Sep 2020

Our Ref: CD/FSSD/12/02/03/01

Registrar, Board of Architects
Registrar, Professional Engineers Board
President, Singapore Institute of Architects
President, Institution of Engineers, Singapore
President, Association of Consulting Engineers, Singapore

Dear Sir/Mdm,

AMENDMENTS TO FIRE CODE 2018 – 5TH BATCH OF AMENDMENTS

SCDF hereby issues the latest round of amendments to the Code of Practice for Fire Precautions in Buildings 2018 (Fire Code 2018). The amendments have been deliberated on and accepted by the Fire Code Review Committee on 11 Mar 2020.

2. This batch of amendments clarifies duties expected of Qualified Persons (QPs) concerning Regulated Fire Safety Products. Some of the key amendments include the need to ensure such products are with valid Certificates of Conformity (CoCs) and serial labels/Declarations of Compliance (DoCs); to ensure the products match the CoCs and serial labels/DoCs; as well as enhanced requirements for composite panels (used as cladding) and fire-rated doors. These highlighted requirements notwithstanding, QPs, Certification Bodies (CBs) and CoC holders are advised to familiarise themselves with the duties required of them not only in the Fire Code and circulars, but also the relevant regulations in the Fire Safety Act and sub-legislation.

3. Amendments stipulated in Annex A of this circular shall take effect from the dates specified therein. For Annex B, the amendments shall take effect from 14 Sep 2020. QPs, CBs and CoC holders are encouraged to comply with the requirements at any time before the effective dates. These amendments shall apply to any proposed plans of fire safety works for



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new buildings or existing buildings that are submitted to SCDF for approval on or after 14 Sep 2020, or 15 Mar 2021, in accordance with the effective date of the respective clauses.

4. Please convey the contents of this circular to members of your Board/ Institution/ Association. This circular is also available in CORENET's e-Info: <http://www.corenet.gov.sg/einfo>.

5. For any clarification on the contents of this circular, please direct your enquiries to scdf_pls@scdf.gov.sg.

Yours faithfully

(transmitted via email)

LTC Tan Chung Yee
for Commissioner
Singapore Civil Defence Force

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Annex A

S/N	Clause No	Amendment Date	Effective Date	Clause Status	Clause Before Amendment	Clause After Amendment
1	11.1	14 Sep 2020	14 Sep 2020	Revision	<p>General</p> <p>This Chapter provides a list of building materials and equipment, also known as regulated fire safety products and materials (refer to <i>Table 11A</i>), which includes the acceptable test standards, product certification schemes and surveillance regime for these products and materials under the Product Listing Scheme. The requirements for certification of these regulated fire safety products and materials are also specified in this Chapter.</p>	<p>General</p> <p>This Chapter stipulates requirements relating to the certification of building materials and equipment regulated by SCDF under the Product Listing Scheme. These requirements include the acceptable test standards, certification schemes and surveillance regimes for these regulated fire safety products and materials (referred to as “products” for simplicity) (refer to <i>Table 11A</i>), as well as the duties required of the various parties involved in the certification process. For the full list of requirements, this Chapter shall be read in conjunction with the Fire Safety Act (FSA) and its subsidiary legislations, as well as CT 12 of SAC’s “Criteria for Product Certification Bodies (Regulated Fire Safety Products)”.</p>
2	11.2.3	14 Sep 2020	14 Sep 2020	Clarification (relocated to <i>Cl.11.2.4</i>)	<p>Declaration of Compliance (DoC)</p> <p>“Declaration of Compliance” refers to a declaration of information associated with or</p>	<p>Declaration of Compliance (DoC)</p> <p>“Declaration of Compliance” refers to a declaration of information associated with or related to a batch of certified regulated fire safety products. DoCs</p>

					related to a batch of fire safety products with CoC.	serve a similar purpose as serial labels, and are issued for non-discrete systems, such as fire-rated ceilings and fire-rated floors. Refer to Table 11A for products that require DoCs.
3	11.2.5	14 Sep 2020	14 Sep 2020	Clarification (relocated to Cl.11.2.10)	Scheme Type 1b (Scheme 1b) “Scheme Type 1b” refers to Scheme Type 1b specified in ISO/IEC 17067. It consists of type testing of a sample of a production. Every subsequent batch shall also be tested.	Scheme Type 1b (Scheme 1b) “Scheme Type 1b” refers to Scheme Type 1b specified in ISO/IEC 17067 consists of type testing of a sample of a production. Every subsequent batch shall also be tested or inspected. Refer to Table 11A for the test requirements.
4	11.2.6	14 Sep 2020	14 Sep 2020	Clarification (relocated to Cl.11.2.11)	Scheme Type 2 (Scheme 2) “Scheme Type 2” refers to Scheme Type 2 specified in ISO/IEC 17067. It consists of type testing of a sample and subsequent periodic testing of samples from the market to check that items produced subsequent to the initial attestation fulfil the specified requirements.	Scheme Type 2 (Scheme 2) “Scheme Type 2” refers to Scheme Type 2 specified in ISO/IEC 17067. consists of type testing of a sample during initial certification, and subsequent surveillance testing of samples from the market (i.e. warehouse, project site, etc.) to check that items produced fulfil the specified requirements.
5	11.2.7	14 Sep 2020	14 Sep 2020	Clarification (relocated to Cl.11.2.12)	Scheme Type 5 (Scheme 5) “Scheme Type 5” refers to the Scheme Type 5 specified in ISO/IEC 17067. It consists of type	Scheme Type 5 (Scheme 5) “Scheme Type 5” refers to the Scheme Type 5 specified in ISO/IEC 17067. consists of type testing and factory

					testing and assessment of the entire quality management system, including auditing the production process and management system. Surveillance testing of the product is done either from the market or at the point of production, or both, to check that items produced subsequent to the initial attestation fulfil the specified requirements.	inspection during initial certification, and ongoing assessment of the entire quality management system, including auditing the production process and management system. Surveillance testing of the product is done either from the market or at the point of production, or both, to check that items produced fulfil the specified requirements.
6	11.2.8	14 Sep 2020	14 Sep 2020	Clarification (relocated to <i>Cl.11.2.17</i>)	Type testing “Type testing” refers to testing of a product according to the test standard(s) for that product for the application of CoC, as specified in <i>Table 11A</i> .	Type testing “Type testing”, also known as prototype testing , refers to testing of a product according to the test standard(s) for that product for the application of CoC, as specified in <i>Table 11A</i> .
7	11.2.9	14 Sep 2020	14 Sep 2020	Deletion	Attestation “Attestation” refers to a statement of conformity which leads to the issuance of a CoC. The attestation, issued by a CB, indicates that the product is in compliance with the PLS.	(Deleted)
8	11.2.1	14 Sep 2020	14 Sep 2020	New	(Nil)	Accredited certification body “Accredited certification body” (CB) refers to a body corporate or corporation

						incorporated or constituted under the law of Singapore, accredited under the Singapore Accreditation Council (SAC)'s certification body accreditation scheme administered by the Enterprise Singapore Board.
9	11.2.2	14 Sep 2020	14 Sep 2020	New	(Nil)	Accredited laboratory "Accredited laboratory" refers to a body corporate or corporation providing laboratory testing services, which is accredited under SAC's laboratory accreditation scheme administered by the Enterprise Singapore Board, or recognised under the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement/Arrangement between Singapore and other countries.
10	11.2.6	14 Sep 2020	14 Sep 2020 (15 Mar 2021 for foreign CoC holders whose CoC was active prior to 14 Sep 2020)	New	(Nil)	Local representative "Local representative" refers to the Singapore-registered agent/partner appointed by a foreign CoC holder, in order for its certified regulated fire safety products to be supplied in Singapore.
11	11.2.13	14 Sep 2020	14 Sep 2020	New	(Nil)	Serial label

						<p>“Serial label” refers to a certification label issued by CBs, with unique serial numbers. These are affixed to certified regulated fire safety products categorised as discrete systems, such as fire-rated doors and fire alarm panels. Such labels allow tracing of these products to their corresponding CoC and the specific installation location of each product. Refer to <u>Table IIA</u> for products that require serial labels.</p>
12	11.2.14	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Surveillance window</p> <p>“Surveillance window”, also known as “surveillance cycle”, refers to the period of 12, 36 or 60 months (depending on product category, as stipulated in <u>Table IIA</u>), starting the date that a CoC is issued in relation to a regulated fire safety product, and every subsequent period of 12, 36 or 60 months or shorter, if the CoC expires, or is terminated or withdrawn. Products may be subject to post-certification testing and/or inspections, based on the surveillance window.</p>
13	11.2.15	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Suspension of CoC</p> <p>“Suspension of CoC” refers to the temporary invalidation of a CoC by a</p>

						<p>CB under circumstances not limited to the following:</p> <ul style="list-style-type: none"> a. Non-compliance to any component of the surveillance regime; b. Products are suspected to not meet fire safety requirements, but are still in the process of being tested/investigated; and c. CoC holder breaching the CB's terms and conditions (including non-payment of fees).
14	11.2.16	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Termination of CoC</p> <p>“Termination of CoC” refers to the cancellation of a CoC, either on the request of the CoC holder before its expiry, or due to reasons not related to fire safety. Examples of such circumstances include:</p> <ul style="list-style-type: none"> a. CoC holder ceases to supply the product due to business considerations (e.g. shutting down of business/undergoes liquidation); and b. CoC holder fails to take adequate rectification measures within the given timeframe, despite being suspended for a breach in the CB's

						terms and conditions (including non-payment of fees).
15	11.2.18	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Withdrawal of CoC</p> <p>“Withdrawal of CoC” refers to the cancellation of a CoC by the CB under circumstances not limited to the following:</p> <p>a. Non-compliance with the requirements of the Product Listing Scheme, including:</p> <ol style="list-style-type: none"> (1) regulated fire safety product that is supplied to the industry differs from the prototype described in the CoC and laboratory test report; (2) misuse of certification mark, logo and certificates; and (3) supply of products from a factory which differs from the factory declared during the CoC application. <p>b. Failure to take adequate rectification measures within the given timeframe, despite being suspended for a fire-safety-related non-compliance, or</p> <p>c. Non-compliance that indicates failure of production process to</p>

						<p>consistently produce products of acceptable quality, including</p> <p>(1) failure or refusal of test/analysis of the product; and</p> <p>(2) the surveillance regime is not completed within the surveillance window.</p> <p>d. Other reasons related to fire safety.</p>											
16	11.3.1	14 Sep 2020	14 Sep 2020	Clarification (relocated to <i>Cl.11.3.2</i>)	<p>Validity of test reports for regulated fire safety products and materials</p> <p>a. With reference to <i>Table 11A</i>, products under Scheme 1b shall be certified based on a test report(s) that was issued less than 5 years prior to the date of the CoC being issued. Scheme 1b (discrete systems) shall be issued with product labels, while Scheme 1b (non-discrete systems) shall be issued with DoCs.</p> <p>b. Discrete systems under Schemes 2 and 5 shall be certified based on a test report(s) that was issued less than 5 years prior to the date of the CoC being issued. These products shall be issued with product labels.</p>	<p>Validity Age of test reports for regulated fire safety products and materials</p> <p>Certification of regulated fire safety products under the Product Listing Scheme shall be based on test report(s) that were issued within the specified timeframes, as listed below.</p> <table border="1"> <thead> <tr> <th colspan="2">Certification Scheme (with reference to <i>Table 11A</i>)</th> <th>Age of Test Reports that can be Considered for Issuance of CoC</th> </tr> </thead> <tbody> <tr> <td colspan="2">Scheme 1b</td> <td>Less than 5 years</td> </tr> <tr> <td rowspan="2">Scheme 2</td> <td>Discrete systems</td> <td>Less than 5 years</td> </tr> <tr> <td>Non-discrete systems</td> <td>Less than 10 years</td> </tr> </tbody> </table>	Certification Scheme (with reference to <i>Table 11A</i>)		Age of Test Reports that can be Considered for Issuance of CoC	Scheme 1b		Less than 5 years	Scheme 2	Discrete systems	Less than 5 years	Non-discrete systems	Less than 10 years
Certification Scheme (with reference to <i>Table 11A</i>)		Age of Test Reports that can be Considered for Issuance of CoC															
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	Non-discrete systems	Less than 10 years															

					c. Non-discrete systems under Schemes 2 and 5 shall be certified based on a test report(s) that was issued less than 10 years prior to the date of the CoC being issued. These products shall be issued with DoCs.	<table border="1"> <tr> <td rowspan="2">Scheme 5</td> <td>Discrete systems</td> <td>Less than 5 years</td> </tr> <tr> <td>Non-discrete systems</td> <td>Less than 10 years</td> </tr> </table>	Scheme 5	Discrete systems	Less than 5 years	Non-discrete systems	Less than 10 years
Scheme 5	Discrete systems	Less than 5 years									
	Non-discrete systems	Less than 10 years									
17	11.3.2	14 Sep 2020	14 Sep 2020	Revision (relocated to Cl.11.3.3)	<p>Validity of CoC for regulated fire safety products and materials</p> <p>a. A CoC for regulated fire safety products and materials shall be valid for 5 years.</p> <p>b. All regulated fire safety products and materials shall be issued with CoC before use in building construction in Singapore.</p> <p>c. All regulated fire safety products shall be certified, and CoC issued, solely based on compliance to the stipulated test performance standards stated in the test report of a local or overseas test laboratory accredited or recognised by SAC via the MRA.</p> <p>d. Regulated fire safety products and materials used in fire</p>	<p>Validity of CoC for regulated fire safety product</p> <p>a. A valid CoC is as defined under Part V of the FSA.</p> <p>b. A CoC for regulated fire safety products is valid for 5 years from the date of issuance.</p> <p>c. A CoC which is terminated, expired or withdrawn shall be considered permanently invalid, whereas a CoC which is suspended shall be considered temporarily invalid till the suspension is lifted.</p> <p>d. The status of the CoC will determine whether the regulated fire safety products are permitted to be supplied and used in Singapore. Information relating to the CoCs, including the status, can be verified against CBs' online directories.</p>					

				<p>safety works shall be of the standards specified at the point of plans submission to the SCDF.</p> <p>e. A CoC shall be considered valid if it is active at the date at which the Notice of Approval (NoA) is issued by the SCDF.</p>	<p>(1) For products with valid CoCs at the date of delivery to the project site, i.e. not suspended, terminated, expired or withdrawn, these are permitted to be used in Singapore.</p> <p>(2) For products with CoCs that are not valid on the date of delivery to the project site, i.e. suspended, terminated, expired or withdrawn, usage of these products in Singapore is prohibited.</p> <p>(3) Notwithstanding (1), for products with CoCs that were valid on the date of delivery, but are subsequently withdrawn, usage of the affected batches of such products in Singapore is subject to further assessment and investigation by SCDF and/or the CBs.</p> <p>(4) Notwithstanding (1), for products with CoCs that were valid on the date of delivery, but are subsequently suspended for fire safety reasons, e.g. pending investigation, it is not recommended that such products be used, as the investigation may show that the</p>
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						<p>products are non-compliant and cannot be used (e.g. products that have been installed will need to be replaced/removed).</p> <p>(5) CBs shall not allow the termination of a CoC which is suspended for fire safety reasons, or which is under investigation by SCDF.</p>
18	11.3.4	14 Sep 2020	15 Mar 2021	<p>Revision (relocated to Cl.11.4.1b.)</p>	<p>Provision of minimum information by CBs on regulated fire safety products and materials for certification</p> <p>All certified regulated fire safety products, with the minimum information as specified below, shall be published on the CBs' directory online. This directory should also include products that have failed to meet certification requirements.</p> <p>a. Certified regulated fire safety products and material under the PLS</p> <p>(1) Applicant (includes company's name, address, contact number)</p> <p>(2) Brand</p> <p>(3) Model</p>	<p>Information displayed on CB online directory</p> <p>(1) The following information relating to all CoCs that have been issued and are still valid; and CoCs which were terminated, withdrawn or which expired in the past 5 years, shall be displayed on the CBs' online directories that are accessible by the general public: This directory should also include products that have failed to meet certification requirements.</p> <p>(a) CoC reference number;</p> <p>(b) The reference number of the CoC immediately prior to the present one (i.e. "Previous CoC number");</p> <p>(c) Date of issue for the present CoC (date of the latest renewal of the CoC);</p>

					<p>(4) Certificate No. (5) Scheme of CoC (6) CoC Expiry Date (7) Description (8) Country of Origin (9) Product Details (includes insulation, integrity, density/weight, etc.) (10) Test Standard (11) Test Report Reference</p> <p>b. Products & materials which failed the certification requirements</p> <p>(1) Applicant (includes company's name, address, contact number) (2) Brand (3) Model (4) Description (5) Country of Origin (6) Product Details (includes insulation, integrity, density/weight, etc.) (7) Test Standard</p>	<p>(d) Date of expiry for the present CoC; (e) CoC holder details, including: (i) Accounting and Corporate Regulatory Authority (ACRA) Company Unique Entity Number (UEN), or foreign equivalent, where applicable; (ii) Company name and address; and (iii) Where the applicant is a foreign company, the details of the appointed local representative, for parts (i) and (ii) shall also be included. (f) Country of manufacture; (g) Product category; (h) Certification scheme, according to <i>CI 11.2.10 – 11.2.12</i>; (i) Brand and model, as determined by the manufacturer; (j) Product description as printed on the CoC; (k) Test reference number(s), as printed on the CoC; (l) Test standard (incl. year) the product is tested to; and (m) Product's fire performance (e.g. 60 min integrity and 60 min</p>
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						<p>insulation), where applicable; and</p> <p>(n) The present status of CoCs certified by CBs shall be published on CBs' online directories, with the following information:</p> <ul style="list-style-type: none">(i) The statuses shall reflect one of the following classifications: "valid"; "suspended (fire safety reasons)" (e.g. non-completion of surveillance regime); "suspended (not fire safety reasons)" (e.g. non-payment of fees); "terminated"; "expired" or "withdrawn";(ii) the effective date of the present status shall be indicated; and(iii) any changes in status of CoCs shall be updated within 5 working days. <p>(2) The online directories shall be accessible at all times; in the event of downtime such as server error, the CB shall write to SCDF and SAC within 24 hours, to</p>
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						<p>(a) Notify the authorities of the downtime; and</p> <p>(b) Detail the actions being taken to rectify the issue.</p>
19	11.4.1	14 Sep 2020	15 Mar 2021	<p>Revised (relocated to <i>CI.11.6.3</i>)</p>	<p>Traceability of certified PLS-listed products</p> <p>Regulated fire safety products that are discrete systems (i.e. listed under Scheme Types 1b and 5) can only be used in Singapore if they are affixed with product labels which are water-proof, tamper-proof and forgery-proof, which indicate the product category, unique label identification number and CB's logo.</p>	<p>Traceability of Certified PLS-Listed Products</p> <p>a. Serial labels affixed to regulated fire safety products shall be water-proof and tamper-proof, and shall include a Quick Response (QR) code that stores the following information on an online database, which can be read by scanning the QR code:</p> <ol style="list-style-type: none"> (1) CoC holder company name; (2) CoC holder ACRA UEN; (3) CoC reference number; (4) Brief product description; (5) Exact location, including unit number, where applicable, where the regulated fire safety product is installed; and (6) The status of the label ("valid" or "void") <p>Note: The status of the label will be 'void' if SCDF detects discrepancies relating to the use of serial labels and digitally voided the serial label.</p>

						<p>b. Serial labels for the following products are exempt from the need to have a QR code:</p> <ul style="list-style-type: none"> (1) Exit sign; (2) Emergency lighting (self-contained); (3) Fire hose reel; (4) Standby fire hose; (5) Door closer; (6) Portable fire extinguisher; (7) Landing valve; and (8) Breaching inlet. <p>c. The following information shall be printed on the label itself:</p> <ul style="list-style-type: none"> (1) Product category; (2) Unique serial number; (3) CB's logo or CB's certification mark; and (4) Fire rating, where applicable.
20	11.5.1	14 Sep 2020	14 Sep 2020	Deletion	<p>Assessment of modification to certified regulated fire safety products and materials</p> <p>a. The fire safety products and materials shall be installed in the manner as the tested prototype described in the test report.</p>	(Deleted)

					b. Any modifications or deviations from the tested prototype shall be supported by a report prepared by a local or an overseas test laboratory accredited or recognised by SAC.	
21	11.3.1	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>General</p> <p>All regulated fire safety products shall be certified and have valid CoCs before they can be used on/in buildings as part of fire safety works in Singapore (henceforth, for the purpose of this Chapter, “use in Singapore” shall be taken to mean “on/in buildings as part of fire safety works in Singapore”).</p>
22	11.3.4c.	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Accreditation requirements</p> <p>Any new CB participating in the PLS shall notify SCDF, in writing, of its accreditation by SAC, and submit its Certificate of Accreditation and Schedule issued by SAC for SCDF’s record. SCDF may request for additional information from the CB.</p>
23	11.3.5a.	14 Sep 2020	15 Mar 2021	New	(Nil)	<p>Certification Requirements</p> <p>a. General requirements</p>

						CoCs issued for products intended for use in Singapore shall bear SAC's accreditation mark.
24	11.3.5b. – 11.3.5d.	14 Sep 2020	14 Sep 2020 (15 Mar 2021 for foreign CoC holders whose CoC was active prior to 14 Sep 2020)	New	(Nil)	<p>Certification Requirements</p> <p>b. Information submitted for new CoC applications</p> <p>The following information, at minimum, shall be submitted to a CB for application of a CoC. Where the information/ documents are not provided in English, an official English translation, endorsed by a Notary Public, shall also be provided:</p> <p>(1) CoC applicant details, including:</p> <ul style="list-style-type: none"> (a) Unique Entity Number (UEN) issued by the Accounting and Corporate Regulatory Authority (ACRA), or foreign equivalent, where applicable; (b) Full names of the company directors, or equivalent; (c) Name, address, contact number and email address

						<p>of the company;</p> <p>(d) Where the applicant is a foreign company, the details of the appointed local representative, for parts (1)(a) through (1)(c) shall also be included; and</p> <p>(e) Proof of partnership between the local representative and foreign CoC holder.</p> <p>(2) Manufacturer's details, for <u>all</u> of the manufacturing plants of components of the regulated fire safety product affecting fire safety, including:</p> <p>(a) Country, name, address, contact number and email address of the manufacturer.</p> <p>(3) Certification scheme details, including:</p> <p>(a) Product category as classified under <u>Table IIA</u>; and</p> <p>(b) Certification scheme, according to <i>CI 11.2.10 – 11.2.12</i>.</p> <p>(4) Product details, including:</p>
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						<p>(a) Brand and model, as determined by the manufacturer;</p> <p>(b) Density and weight, where applicable, measured in kg/m³ and kg, respectively;</p> <p>(c) Dimensions, where applicable, measured in mm; and</p> <p>(d) Latest product catalogue stipulating the specifications and user instructions.</p> <p>(5) Details of type tests, including:</p> <p>(a) The reference number of the test report;</p> <p>(b) Test standards (including version of the test standard, i.e. year) which the product is tested to;</p> <p>(c) Description of the product component and manner of test, where applicable (e.g. tested with the core face exposed to heat);</p> <p>(d) Outcome of the test, in</p>
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						<p>terms of fire performance (e.g. 60-min integrity), where applicable;</p> <p>(e) Insulation test results, where applicable; and</p> <p>(f) Integrity test results, where applicable.</p> <p>c. Documents submitted for new CoC applications</p> <p>The following documents shall also be submitted for CoC applications:</p> <p>(1) Test reports, including the full type test reports and other test(s) required by the CB (e.g. material tests), which shall be:</p> <p>(a) In full colour; and</p> <p>(b) Bear the brand and model of the regulated fire safety product.</p> <p>(2) For each test report, the credentials of the accredited laboratory which issued the test report, including:</p> <p>(a) Documentation that the test laboratory is accredited by SAC or recognised by SAC via</p>
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						<p>ILAC MRA and</p> <p>(b) The accreditation scope indicating the test laboratory is accredited to perform such a test.</p> <p>d. Information and documents submitted for renewal of CoCs</p> <p>CoC holders shall submit the information stipulated in <i>CI 11.3.5b.(1)</i> and <i>(2)</i> and provide the date of issue of the very first CoC that had been issued for the product (i.e. “Original date of issue”). The CB shall make an assessment on whether there is a need to submit information stipulated in <i>CI 11.3.5b.(3) – (5)</i>, as well as documents stipulated in <i>CI 11.3.5c.(1)</i> and <i>(2)</i>. CB may require submission of any further information/documents as it deems fit.</p>
25	11.4.1a.	14 Sep 2020	15 Mar 2021	New	(Nil)	<p>Display of CoC information on CoCs and CB directories</p> <p>a. Information displayed on CoC</p> <p>(1) In addition to the information stipulated in <i>CI 11.3.5b.</i>, the</p>

						<p>CoC shall display the following information:</p> <ul style="list-style-type: none">(a) CoC reference number;(b) Date of issue for the present CoC (i.e. date of the latest renewal of the CoC);(c) Date of expiry for the present CoC;(d) In the case of revisions made to a CoC, a summary of the key changes shall be reflected in the appendix of the CoC; and(e) In the case of renewed CoCs, the reference number of the CoC immediately prior to the present one (i.e. "Previous CoC number") shall be indicated on the new CoC, in brackets under the new number. <p>(2) Notwithstanding Cl 11.4.1a.(1), the following information shall not be displayed on the CoC:</p> <ul style="list-style-type: none">(a) Full names of the company directors, or equivalent, of the CoC holder and local
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						<p>representative;</p> <p>(b) Contact number and email address of the CoC holder and local representative;</p> <p>(c) Proof of partnership between the local representative and foreign CoC holder;</p> <p>(d) Manufacturer's name, address, contact number and email address; and</p> <p>(e) Latest product catalogue stipulating the specifications and user instructions.</p>
26	11.4.2	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Renewal of CoCs</p> <p>The following requirements apply for the renewal of a CoC:</p> <p>a. Prior to expiry of the CoC, a recertification review shall be conducted before CB can renew the CoC.</p> <p>b. The renewed CoC is valid for 5 years, commencing the day after the expiry date of the previous CoC. For illustration, a CoC with expiry date on 15 Oct 2019, when renewed, would have a new issue date of 16</p>

						Oct 2019, and an expiry date of 15 Oct 2024.
27	11.4.3	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Transfer of CoC between CBs</p> <p>a. Transfer of CoC between CBs is only allowed for CoCs that are still valid. Valid CoCs are those that are not expired, withdrawn, terminated or suspended.</p> <p>b. In addition to the requirements in <i>CI 11.3.5</i>, subject to <i>CI 11.4.3c.</i>, the following documents shall be submitted to the new CB:</p> <ol style="list-style-type: none"> (1) Present CoC; (2) Declaration from the CoC holder that the current CoC is valid; (3) Signed declaration from the previous CB that there are no outstanding issues that require rectification (e.g. failed/missed surveillance tests, pending investigations by SCDF, etc.); (4) Type test reports; (5) Additional test reports (if applicable); and (6) All records of surveillance regime reports for testing and inspections that have been

						<p>completed for the currently valid CoC.</p> <p>Note: Items (3) and (6) shall be provided directly from one CB to another.</p> <p>c. For transfer of CoCs, type test reports submitted as stipulated in <i>CI 11.4.3b.</i> can be the same test report that was submitted when applying for the present CoC, unless otherwise directed by the CB.</p> <p>d. For transfer of CoCs, the new CB may permit CoCs previously certified to Scheme 5 to be changed to Scheme 1b, provided the surveillance regime requirements (i.e. surveillance tests over multiple years and current surveillance window) have been fulfilled.</p> <p>e. If the surveillance regime for that surveillance window has not been completed, transfer of CoCs are not allowed:</p> <ul style="list-style-type: none">(1) Within the final 6 months of a surveillance window; or(2) If there is at least 6 months left to the end of the surveillance window, but the new CB
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						<p>determines there is insufficient time to complete the surveillance regime prior to the lapse of the surveillance window.</p> <p>f. Once the intention to transfer CoC has been indicated to the current CB, the said CB shall stop issuing labels or DoCs for the product.</p> <p>g. The validity of the transferred CoC shall be limited to the remaining lifespan of the recently valid CoC.</p> <p>h. The new CB with which the CoC is held shall comply with the following, in addition to the certification requirements as stipulated in <i>CI 11.3.5</i>:</p> <p>(1) The new CB shall ensure the brand, model, manufacturing site and test standards of the regulated fire safety product is the same as that of the previous CoC; and</p> <p>(2) The surveillance window for the transferred CoC shall be determined with reference to the CoC's original issue date.</p>
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28	11.4.4	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Certification of Regulated Fire Safety Products with Multiple CBs</p> <ol style="list-style-type: none"> a. Where a CoC holder wishes to list their product with multiple CBs, the applicant shall declare the status of certification held with the present CB(s), for verification by the new CB. b. For regulated fire safety products with existing valid CoC(s) with other CB(s), application for a CoC from a new CB shall be treated as a new application, and comply with requirements in CI 11.3.5. The existence of CoCs for the same products (valid or otherwise) issued by other CBs does not change how the new CB should certify the product, similar to how it would certify any new regulated fire safety product. c. The results from surveillance tests conducted by a CB shall not be used by another CB to fulfil the surveillance regime requirements for the same product. The same surveillance test results may be used by another CB to fulfil the surveillance regime requirements for
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						<p>the same product, only if all of the following minimum requirements are complied with:</p> <p>(1) The surveillance test is conducted within the surveillance window for all the CoCs the test is intended to fulfil;</p> <p>(2) The product manufacturer, composition, fire seal, design and fire rating are identical;</p> <p>(3) Each of the CBs which had issued a CoC for the product -</p> <p>(a) are agreeable to the terms and methodology of the sampling, including the choice of sample and test laboratory, sampling location, sampling methodology; and</p> <p>(b) witness the sampling of the product, and ensure the chain-of-custody when delivering the product to the test laboratory.</p>
29	11.4.5	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Conduct of Surveillance Regime</p> <p>a. The CB shall remind the CoC holders to complete their surveillance tests, if</p>

						<p>yet to be completed, 6 months and 3 months prior to the end of the surveillance window.</p> <p>b. Where sampling is required, the CB shall select the sample for the surveillance test/inspection.</p> <p>c. The CB shall take all reasonable measures to ensure the chain-of-custody of samples meant for surveillance testing. This may include, but not limited to, signing on the sample, ensuring it cannot be tampered with, and verifying the sample has reached the test laboratory.</p> <p>d. The CB shall immediately suspend the CoC if the necessary surveillance tests/inspections are not completed within the surveillance window.</p> <p>e. Surveillance tests are only considered to be completed after the CB has received the surveillance test report, indicating a 'pass' result, or a result meeting the intended performance of the product, as stated in the CoC, from an accredited test laboratory. CoC holders are thus advised not to wait</p>
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						<p>till the last minute to arrange for their surveillance tests.</p> <p>f. For avoidance of doubt, where surveillance tests are required in <u>Table 11A</u>, the first surveillance window commences from the date of issue of the CoC. Test reports submitted for the CoC application do not exempt the product from having to undergo surveillance testing for the first window.</p> <p><u>Note:</u> The above table is applicable for products with 1-year surveillance windows. For products with multiple-year windows, this would apply to the final year of the surveillance window.</p> <p>g. In the case of CoC holders who are sole proprietors, the CB shall verify against the annual submission of ACRA records provided by the CoC holder to ensure that the business licence is renewed. In the event the licence is not renewed, the CoC shall be suspended.</p>
30	11.5.1	14 Sep 2020	14 Sep 2020	New	(Nil)	Application for a CoC

			(15 Mar 2021 for foreign CoC holders whose CoC was active prior to 14 Sep 2020)			<p>a. The party that intends to own the CoC, whether local or foreign, shall submit the application for the CoC.</p> <p>b. Foreign companies that intend to apply for a CoC to supply regulated fire safety products in Singapore, shall engage a local representative, prior to submitting the application for a CoC.</p>
31	11.5.2	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Duty to notify CB</p> <p>a. CoC holders, and, where applicable, local representatives, shall inform CBs of any other changes (e.g. CoC holder/local representative contact information), where the information differs from that submitted during the CoC application.</p> <p>b. CoC holders and local representatives shall inform CBs of any changes to the product from the prototype that was tested when applying for the CoC.</p>
32	11.5.3	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Duties related to the surveillance regime</p> <p>CoC holders/local representative shall carry out the following in relation to the surveillance regime:</p>

						<ul style="list-style-type: none"> a. Facilitate the conduct of factory inspections and surveillance tests (as stipulated in <i>Table 11A</i>), or unscheduled tests required by SCDF or the CB to verify conformity of the products; b. Make arrangements with the CB on the date/time of sampling and inspection; and c. Provide the necessary support for the purpose of the surveillance regime (e.g. fabricating door frame for fire test involving fire-rated doors, ensure availability of samples, provide the relevant information such as location of the relevant samples, as requested by the CB).
33	11.5.4	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Duties related to serial labels and DoCs</p> <p>With reference to Regulation 10(2)(g) of the Fire Safety (Regulated Fire Safety Products) Regulations 2020, location refers to the exact address, including unit number, where applicable, where the regulated fire safety product is installed.</p>
34	11.6.1	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Management of Serial Labels and DoCs</p> <ul style="list-style-type: none"> a. With reference to Regulation 6(2)(b) of the Fire Safety (Regulated Fire

						<p>Safety Products) Regulations 2020, documentary evidence of the location may include the Purchase Order, Delivery Order, SCDF Notice of Approval, and/or contractual agreement indicating that the certified regulated fire safety product is or will be installed at the specific location.</p> <p>b. With reference to Regulation 6(2)(b) of the Fire Safety (Regulated Fire Safety Products) Regulations 2020, the exact address of where each product is installed, including unit number, where applicable, shall be recorded.</p> <p>c. For regulated fire safety products that are to be issued with DoCs as stipulated in <i>Table 11A</i>, every project where that regulated fire safety product is installed shall be issued with a DoC, even if the threshold for site inspection stated in <i>Table 11A</i> is not met.</p>
35	11.6.2	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>Replacement of Serial Labels</p> <p>In the event that the serial labels or DoCs are missing or damaged, a police report shall be lodged before replacement labels</p>

						<p>can be obtained from the CBs. A copy of this report shall be furnished to the CB, when requesting for replacement of labels. An investigation by the CB shall also be conducted on the nature of the damage and/or loss, with the findings reported to SCDF for accountability.</p> <p><u>Exemption:</u> If labels are returned to the CB with the serial numbers still legible, a police report is not required.</p>
36	11.7.1	14 Sep 2020	14 Sep 2020	Clarification	(Nil)	<p>Duty to inspect regulated fire safety products used in fire safety works</p> <p>With reference to s25(4) of the FSA, where fire safety works involve the use of regulated fire safety products, Qualified Persons shall carry out inspections of the fire safety products, including but not limited to, the following:</p> <ol style="list-style-type: none"> a. Verify that the regulated fire safety product(s) have valid CoC(s) and that the CoC(s) match exactly with the products used; b. Verify that the regulated fire safety product(s) are affixed with serial labels, or issued with DoCs, if said products are stipulated to have labels or DoCs issued in <i>Table 11A</i>; and

						<p>c. Where there are serial labels or DoCs, verify that the serial label affixed on the product, or the DoC issued for the product, are accurate and match exactly with the product.</p>
37	11.8.1	14 Sep 2020	15 Mar 2021	New	(Nil)	<p>Composite panels</p> <p>a. For composite panels used as cladding, samples of composite panels except for honeycomb panels, shall be taken from every project site for surveillance testing, as stated in <i>Table 11A</i>. If there is no testing from project sites for the surveillance window, the surveillance test is to be conducted annually. <u>Note:</u> For honeycomb panels, testing of samples from project sites for surveillance testing will be introduced at a later stage.</p> <p>b. For composite panels used as cladding or roofing, CoC holders shall ensure that critical product information is printed on the composite panels, as well as their protective film, for traceability. The printing shall be legible, permanent and conspicuously located, such that the information is readable on each</p>

						<p>panel. The critical product information shall, at minimum, include:</p> <ul style="list-style-type: none"> (1) Product brand and model; (2) CoC reference number; (3) Fire performance; and (4) Date of manufacture.
38	11.8.2a.(1)	14 Sep 2020	15 Mar 2021	New	(Nil)	<p>Fire-rated doors</p> <p>a. Requirements for CoC</p> <ul style="list-style-type: none"> (1) The brand, model and test report number of hardware shall be displayed on the CoC, including, but not limited to: <ul style="list-style-type: none"> (a) Door closer (Concealed); (b) Locks and latches (electromechanically operated); (c) Door coordinator devices; (d) Door bolts; (e) Lever handles and knots; (f) Mechanical locks and latches; (g) Emergency exit devices; (h) Panic exit devices; (i) Single axis hinges; (j) Electrically powered door hold-open devices; (k) Cylinders for locks; and (l) Mechantronic cylinders.

39	11.8.2a.(2)	14 Sep 2020	14 Sep 2020	New	(Nil)	<p>(2) Fire-rated doors of different fire-ratings shall be issued with separate CoCs (i.e. one CoC for each fire-rating), unless all of the following requirements can be met:</p> <ul style="list-style-type: none"> (a) the product manufacturer is identical; (b) the composition (e.g. construction materials) is identical; (c) the fire seal (e.g. intumescent seal) is identical; (d) the design (e.g. vision panel) is identical; (e) the thickness is at least as thick as the prototype test sample; and (f) the CB assesses that listing the products together does not compromise the assessment of whether each product is compliant. <p>For example, if a ½-hr and 1-hr door are both manufactured by the same manufacturer, are of identical composition, fire seal, design, etc. these may</p>
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						<p>be listed together, subject to the CB's assessment that grouping the models does not compromise the assessment of whether each is compliant. However, if the 2-hr model is of a different composition, the 2-hr door should be listed with a separate CoC.</p>
40	11.8.4b.	14 Sep 2020	15 Mar 2021	New	(Nil)	<p>b. Requirements for door closers</p> <ol style="list-style-type: none"> (1) All door closers (regardless if concealed or surface-mounted) shall have their own CoCs. (2) For concealed door closers, these shall be tested together with the specific type of fire-rated door (i.e. brand, model, fire performance), and their CoC numbers and specifications shall be included in the appendix for that related fire door. (3) Uninsulated surface-mounted door closers shall only be used on uninsulated doors. Insulated surface-mounted door closers may be used on either insulated or uninsulated doors. (4) The 6-digit coding system indicating the performance of

						<p>the door closer, as stipulated in SS 332 Cl 6 Annex C or EN 1154, shall be stored within the QR code on the serial label for the door closer.</p> <p>(5) The following statement shall be included in the appendix of the CoC:</p> <p><i>“For surface-mounted door closers, the selected door closer shall meet the performance requirements needed for the respective fire-rated door, in accordance with SS 332 Cl 6 Annex C.</i></p> <p><i>Surface-mounted door closers tested with uninsulated fire-rated doors can be installed on insulated or uninsulated fire-rated doors (subject to the maximum fire-rating attained by the door closer in a fire test). Surface-mounted door closers tested with insulated fire-rated doors can only be installed on insulated fire-rated doors.”</i></p>
41	11.8.4c.	14 Sep 2020	14 Sep 2020	New	(Nil)	c. Clustering of surveillance test

						<p>The surveillance test result for one CoC for a fire-rated door shall not be used to fulfil the surveillance test requirements of another CoC issued by the same CB, unless all of the following requirements are complied with:</p> <ol style="list-style-type: none">(1) The surveillance test is conducted within the surveillance window for all the CoCs the test is intended to fulfil;(2) The product manufacturer, composition, fire seal, design and fire rating of the products are identical;(3) Where the surveillance test is meant to fulfil the surveillance requirements of products with different fire-ratings, the test shall meet the testing requirements of the product with the highest fire rating; and(4) The CB assesses that the sharing of surveillance tests results does not compromise the assessment of whether each product is compliant.
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TABLE 11A: LIST OF REGULATED FIRE SAFETY PRODUCTS & MATERIALS

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
1.	Fire alarm panel	(a) EN 54-2 and (b) EN 54-4 and (c) SS 645 SS CP-10	Scheme 5 (Labels issued)	Scheme 5 – Testing for every 200 labels issued or At least once annually, if fewer than 200 labels issued <u>Testing clauses shall include:</u> Critical electrical (frequency, voltage) input and output; verify design deviation; verify functionality; verify visual & audio indicators)	Scheme 5 – Factory inspection to be conducted at least once annually or by trigger (every 200 labels) and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b – Batch testing <u>Testing clauses shall include:</u> Critical electrical (frequency, voltage) input and output; verify design deviation; verify functionality; verify visual & audio indicators)	Scheme 1b - Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
2.	Home fire alarm device (i.e. smoke detector) ⁽⁷⁾ (Refer to <i>Cl.6.3.6</i> for more information)	(a) EN 14604 or AS 3786 or UL 217	Scheme 2	Annual surveillance test for products complying with <i>Cl.6.3.6a.(9)(a)</i> Not applicable for products complying with <i>Cl.6.3.6a.(9)(b)-(e)</i>	Not applicable
3.	Fire pump	(a) AS 2941 or UL 448 or FM 1311 FMRC Class 1311 or FM 1319 FMRC Class 1319	Scheme 5 (Labels issued)	AS – Annual testing FM/UL – Annual submission of reports shall include surveillance inspection and/or testing	Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body ⁽¹⁰⁾
4.	Fire-rated partition ⁽⁹⁾	4.1 Compartment wall: (a) BS 476-22 / ASTM E119 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or EN 1364-1/ ISO 834-8 with material testing in accordance with EN 13501-1 (min. class A2) or	Scheme 5 (DoCs issued)	Annual surveillance test shall only require material testing under Scheme 2 , and adopt the same test standards that were adopted for the material testing at the point of CoC listing Site inspection triggered by DoC (every 3500m²)	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m²

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>AS 1530-4 with material testing in accordance with</p> <p>(i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p> <p>or</p> <p>(ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple</p> <p>(b) In the case of Engineered Timber, refer to S/N 37</p>			
		<p>4.2 Protected shaft enclosing lift ⁽¹⁾:</p> <p>(a) BS 476-22/ ASTM E119 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p> <p>or</p> <p>EN 1364-1/ ISO 834-8 with material testing in accordance with EN 13501-1 (min. class A2)</p> <p>or</p> <p>AS 1530-4 with material testing in accordance with</p> <p>(i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p>	Scheme 5 (DoCs issued)	<p>Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p> <p>Site inspection triggered by DoC (every 3500m²)</p>	<p>Factory inspection to be conducted at least once annually</p> <p>and</p> <p>Site inspection to be conducted for every 3500m²</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>or</p> <p>(ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple</p> <p>and</p> <p>(b) BS 5234-2</p> <p>and</p> <p>(c) BS EN 520 (for gypsum plaster board)</p> <p>and</p> <p>(d) ISO 1896 (for calcium silicate or cement board)</p> <p>and</p> <p>(e) Cyclic loading & dynamic test as specified under <i>Cl.3.8.7b.(5)</i></p>			
		<p>4.3 Protected shaft enclosing staircase or services:</p> <p>(a) BS 476-22/ ASTM E119 with material testing in accordance with BS 476-4/ BS 476-11/ EN</p>	<p>Scheme 5 (DoCs issued)</p>	<p>Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p>	<p>Factory inspection to be conducted at least once annually and Site inspection to be conducted for every</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>13501-1 (min. class A2) or EN 1364-1/ ISO 834-8 with material testing in accordance with EN 13501-1 (min. class A2) or AS 1530-4 with material testing in accordance with (i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or (ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple and (b) BS 5234-2 and (c) EN 520 (for gypsum plaster board) and (d) ISO 1896 (for calcium silicate or cement board)</p>		<p>Site inspection triggered by DoC (every 3500m²)</p>	<p>3500m²</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
5.	Fire-rated floor ⁽⁹⁾	<p>(a) BS 476-21 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2_f) or ISO 834-5 with material testing in accordance with EN 13501-1 (min. class A2_f) or AS 1530-4 with material testing in accordance with (i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2_f) or (ii) EN 13501-1 (min. class A2_f) if fire resistance test is using plate-thermocouple</p> <p>(b) In the case of Engineered Timber, refer to S/N 37</p>	Scheme 5 (DoCs issued)	<p>Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p> <p>Site inspection triggered by DoC (every 3500m²)</p>	<p>Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m²</p>
6.	Fire-rated ceiling ⁽¹⁾⁽⁹⁾	<p>6.1 Compartmentation:</p> <p>(a) BS 476-22 / ASTM E119 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p>	Scheme 5 (DoCs issued)	<p>Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p>	<p>Factory inspection to be conducted at least once annually and Site inspection to be conducted for every</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>or EN 1364-2/ ISO 834-9 with material testing in accordance with EN 13501-1 (min. class A2)</p> <p>or AS 1530-4 with material testing in accordance with (i) BS 476-4/ BS 476-11 / EN 13501-1 (min. class A2) or (ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple</p> <p>(b) In the case of Engineered Timber, refer to S/N 37</p>		<p>Site inspection triggered by DoC (every 3500m²)</p>	3500m ²
		<p>6.2 Protection to steel beams that support RC floor:</p> <p>(a) BS 476-23 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or ISO 834-5 with material testing in accordance with EN 13501-1 (min. class A2)</p>	Scheme 5 (DoCs issued)	<p>Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p> <p>Site inspection triggered by DoC (every 3500m²)</p>	<p>Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m²</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>or AS 1530-4 with material testing in accordance with (i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or (ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple</p>			
		<p>6.3 Protection to timber/ steel flooring:</p> <p>(a) BS 476-21 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or ISO 834-5 with material testing in accordance with EN 13501-1 (min. class A2) or AS 1530-4 with material testing in accordance with (i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p>	<p>Scheme 5 (DoCs issued)</p>	<p>Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p> <p>Site inspection triggered by DoC (every 3500m²)</p>	<p>Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m²</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		or (ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple			
7.	Fire-rated enclosure/ spraying material ^{(1) (9)}	7.1. Protection to steel structure ⁽²⁾ : (a) BS 476-21 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or ISO 834-6 & ISO 834-7 with material testing in accordance with EN 13501-1 (min. class A2) or AS 1530-4 with material testing in accordance with (i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or (ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple and	Scheme 5 (DoCs issued)	Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing Site inspection triggered by DoC (every 3500m ²)	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m ²

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		(b) BS 5234-2 and (c) EN 520 (gypsum plaster board) and (d) ISO 1896 (calcium silicate or cement board)			
		7.2 Protection to firefighting system (³) (i.e. Dry riser pipe etc.): (a) FSB/PSB/001 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or AS 1530-4 (Including Pipe insulation criteria on fire side, 500mm from wall, shall not exceed 75°C above the initial temperature) with material testing in accordance with (i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)	Scheme 5 (DoCs issued)	Annual surveillance test shall only require material testing under Scheme 2 , and adopt the same test standards that were adopted for the material testing at the point of CoC listing Site inspection triggered by DoC (every 3500m ²)	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m ²

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>or</p> <p>(ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple</p>			
		<p>7.3 Protection to building service (i.e. cables, sanitary pipes, chilled water pipes, etc.):</p> <p>(a) BS 476-20 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p> <p>or</p> <p>AS 1530-4 with material testing in accordance with</p> <p>(i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p> <p>or</p> <p>(ii) EN 13501-1 (min. class A2) if fire resistance test is using plate-thermocouple</p> <p>or</p> <p>ASTM E119 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2)</p>	Scheme 5 (DoCs issued)	<p>Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p> <p>Site inspection triggered by DoC (every 3500m²)</p>	<p>Factory inspection to be conducted at least once annually</p> <p>and</p> <p>Site inspection to be conducted for every 3500m²</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		or ISO 834-1 with material testing in accordance with EN 13501-1 (min. class A2)			
8.	Smoke curtain/barrier ⁽⁹⁾	8.1 For smoke curtain: EN 12101-1 with material testing in accordance with EN 13501-1. (min. class B)	Scheme 1b (Labels issued)	Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing	Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾
		8.2 For smoke barrier: EN 12101-1 with material testing in accordance with EN 13501-1 (min. class A2)	Scheme 5 (DoCs issued)	Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m ²
9.	Fire-rated duct system ⁽⁴⁾ ⁽⁹⁾ (i.e. ventilation, smoke extraction and/or kitchen exhaust ducting system)	(a) BS 476-24 with material testing in accordance with BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or AS 1530-4 with material testing in accordance with	Scheme 5 (DoCs issued)	Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m ²

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>(i) BS 476-4/ BS 476-11/ EN 13501-1 (min. class A2) or (ii) EN 13501-1 (min. class A2) if fire resistance test is using plate- thermocouple Or EN 1366-1 with material testing in accordance with EN 13501-1 (min. class A2) or EN 1366-8 with material testing in accordance with EN 13501-1 (min. class A2) or EN 1366-9 with material testing in accordance with EN 13501-1 (min. class A2)</p>		<p>Site inspection triggered by DoC (every 3500m²)</p>	
10.	Fire extinguishing system for kitchen hood	UL 300	Scheme 5 (Labels issued)	<p>Annual submission of reports shall include surveillance inspection and/or testing</p> <p>Site inspection triggered by DoC (every 50 labels) or min. once per year</p>	<p>Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body⁽¹⁰⁾</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
11.	Fire stopping material (including fire-rated collar)	<p>For penetration gaps and linear joints:</p> <p>(a) BS 476-20 or AS 1530-4 or EN1366-3 or EN 1366-4 or ASTM E814</p> <p>For curtain wall application: ASTM E2307</p>	Scheme 5 (DoCs issued)	<p>Not applicable</p> <p>At least once annual site surveillance, or</p> <p>Site inspection triggered by DoC (every 1000 openings/metre run)</p>	<p>Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 1000 openings or 1000 metre run, or at least once a year if lesser</p>
12.	Fire-rated glass block/ glass partition	<p>(a) BS 476-22 or EN 1364-1 or AS 1530-4 or ASTM E119 or ISO 834-8 and</p> <p>(b) BS 6206</p>	Scheme 5 (DoCs issued)	<p>Not applicable for glass block</p> <p>Fire-rated glass partition – Impact tests once every 3 years</p>	<p>Factory inspection to be conducted at least once annually and Site inspection to be conducted for every project</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		or AS 2208 or EN 12600			
13.	Exit sign	13.1 Exit sign (powered electrically): (a) IEC 60598-2-22 and (b) SS 563-1 or ISO 30061 and (c) SS 563-2	Scheme 5 (Labels issued)	Scheme 5 – Testing for every 2000 labels or At least once annually, if fewer than 2000 labels	Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b – Batch testing and Full tests over 3 years	Scheme 1b – Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾
		13.2 Self-luminous sign (powered by radioactive material) (a) UL 924 and (b) SS 508-1 or ISO 3864-1	Scheme 5 (Labels issued)	Scheme 5 – Testing for every 2000 labels or At least once annually, if fewer than 2000 labels	Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s)

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		and (c) SS 508-2 or ISO 3864-2 and (d) SS 508-3 or ISO 3864-3 and (e) SS 508-5 or ISO 7010 and (f) SS 563-1 or ISO 30061 (Clause 10.5 of SS 563-1 shall be complied with for determination of the viewing distance with distance factor (Z) fixed at 50) and (g) SS 563-2 (Clause C2)			triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b – Batch testing and Full tests over 3 years	Scheme 1b – Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾
14.	Emergency lighting (self-contained)	(a) IEC 60598-2-22 and (b) SS 563-1 or ISO 30061 and (c) SS 563-2	Scheme 5 (Labels issued)	Scheme 5 – Testing for every 2000 labels or At least once annually, if fewer than 2000 labels	Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b – Batch testing	Scheme 1b – Batch inspection ⁽¹¹⁾

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
				and Full tests over 3 years	and Site inspection triggered by certification body for each batch ⁽¹⁰⁾
15.	Battery system (for exit signs and emergency lighting)	(a) SS 563-1 or ISO 30061 And (b) SS 563-2 or AS/NZS 2293-1	Scheme 5, or Scheme 1b (Labels issued)	Scheme 5 – Testing for every 2000 labels or At least once annually, if fewer than 2000 labels	Scheme 5 – Factory inspection to be conducted at least once annually or by trigger (every 2000 labels)
				Scheme 1b – Batch testing and Full tests over 3 years	Scheme 1b – Not applicable
16.	Fire hose reel	EN 671-1	Scheme 5 (Labels issued)	Scheme 5 - Testing for every 1500 labels or At least once annually, if fewer than 1500 labels Full test over 5 years for both fixed and swing types	Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body ⁽¹⁰⁾
				Scheme 1b	Scheme 1b -

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
			(Labels issued)	Batch testing (Full test)	Site inspection triggered by certification body for each batch ⁽¹⁰⁾
17.	Standby fire hose Firefighting hose/lay flat fire hose	BS 6391	Scheme 5 (Labels issued)	Scheme 5 - Testing for every 1000 labels or At least once annually, if fewer than 1000 labels Full tests over 5 years per type	Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b – Batch testing (Full test)	Scheme 1b – Site inspection triggered by certification body for each batch ⁽¹⁰⁾
18.	Auditorium Seats ⁽⁵⁾	BS 5852, Clause 12 (Ignition source 0, 1 & 5)	Scheme 1b (Labels issued)	Batch testing covering BS 5852: Clause 12 (ignition source 0, 1 & 5)	Site inspection triggered by certification body for each batch ⁽¹⁰⁾
19.	Fire damper	To conduct full test comprising: 1. fire test; 2. air leakage test; 3. reliability test; and 4. spring closing test (if applicable).	Scheme 1b (Labels issued)	At least once annually. Full test over 3 years: 1. Fire test and 2. Air leakage test and	Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>For fire test:</p> <p>(a) SS 333 Clause 6.3 or AS 1530-4 (The damper shall be tested with the damper at open position at the start of fire test and be able to completely close during the first 90 sec of the test. Acceptance criteria shall be according to SS 333 Cl 6.3.2) or ISO 834-8 & ISO 834-9 (The damper shall be tested with the damper at open position at the start of fire test and be able to completely close during the first 90 sec of the test. Acceptance criteria shall be according to SS 333 Cl 6.3.2)</p> <p>For air-leakage test:</p> <p>(a) SS 333 Clause 6.4 or</p>		<p>3. Reliability test and 4. Spring closing test (if applicable)</p>	

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>ISO 5167 & ISO 7244 or EN 1751 Clause 5.2.1 to 5.2.4 (Note: The requirements for sub-items 2, 3 & 4 shall be as specified in SS 333 Clause 6.4).</p> <p>For closing reliability test:</p> <p>(a) SS 333 Clause 6.5 or UL 555 Clause 11.2</p> <p>For spring closing force test</p> <p>(a) SS 333 Clause 6.6 or UL 555 Clause 13</p>			
20.	Fire-rated door (including door closer)	<p>19.1 Fire-rated door</p> <p>(a) SS 332 Clause 5 or EN 1634-1 and (b) Mechanical test for relevant</p>	Scheme 5 (Labels issued)	<p>Fire test:</p> <p>Timber/composite door – at least once annually</p>	<p>Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s)</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>hardware as stipulated in SS332 (wherever applicable if installed on the fire door):</p> <p>EN 179, EN 1125, EN 1155, EN 1158, EN 1303, EN 1906, EN 1935, EN 12051, EN 12209, EN 14846, EN 15684</p> <p>If product includes glass (excl. vision panel), to also conduct impact test:</p> <p>(c) BS 6206 Or AS 2208 or EN 12600 and (d) Door Closer (refer to S/N 19.2)</p>	Scheme 1b (Labels issued)	<p>Steel/glass door – once every 3 years</p> <p>Impact test for fire-rated glass door – once every 3 years</p>	<p>triggered by certification body ⁽¹⁰⁾</p> <p>Scheme 1b – Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾</p>
		<p>19.2 Door closer</p> <p>(a) EN 1154 or SS 332 Clause 6 Annex C SS 332 Clause 5</p>	Scheme 5 (Labels issued) (Mark printed on hardware)	<p>Mechanical Test at least once annually based on EN 1154 or SS 332 Clause 6 Annex C</p>	<p>Factory inspection to be conducted at least once annually or by trigger (every 500 labels) and Site inspection(s) triggered by certification</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
					body ⁽¹⁰⁾
21.	Bin/linen chute door	(a) BS 476-22 or EN 1634-1 or AS 1530-4	Scheme 5 (Labels issued)	Fire test once every 3 years	Scheme 5 – Factory inspection to be conducted at least once annually or by trigger (every 500 labels) and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)		Scheme 1b – Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾
22.	Fire-rated lift landing / dumb waiter door	For lift-landing door: (a) BS 476-22 or EN 81-58 For dumb waiter door: (b) BS 476-22	Scheme 1b (Labels issued)	Fire test once every 3 years Impact test once every 3 years	Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		and If product (lift-landing door or dumb waiter door) includes glass (excl. vision panel), to also conduct impact test: (c) BS 6206 or AS 2208 or EN 12600			
23.	Fire shutter/fire curtain	(a) SS 489 Clauses 4.5.1 & 5 or EN 1634-1; and the fire shutter/fire curtain shall close at between 10 sec and 30 sec	Scheme 1b (Labels issued)	Fire test once every 3 years Batch inspection—No surveillance	Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾
24.	Fire-rated hatch door	(a) BS 476-22 or EN 1634-1 or AS 1530-4	Scheme 5 (Labels issued)	Fire test once every 3 years	Scheme 5 – Factory inspection to be conducted at least once annually or by trigger (every 500 labels) and Site inspection(s) triggered by certification body ⁽¹⁰⁾

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
			Scheme 1b (Labels issued)		Scheme 1b – Batch inspection ⁽¹¹⁾ and Site inspection triggered by certification body for each batch ⁽¹⁰⁾
25.	Portable fire extinguisher	(a) SS EN 3-7 and (b) EN 3-8 or EN 3-9	Scheme 5 (Labels issued)	Scheme 5 – Testing for every 5000 labels or At least once annually, if fewer than 5000 labels Full tests over 5 years per type	Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b - Batch testing	Scheme 1b – Site inspection triggered by certification body for each batch ⁽¹⁰⁾
26.	Fire resistant cables	(a) SS 299-1 or BS 6387 and BS 7846 Clauses 16.2 and 16.3	Scheme 5 (Certified mark printed on cables)	Full tests over 3 years	Factory inspection to be conducted at least once annually

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
27.	Intumescent coating system (for protection to steel structure) ⁽⁶⁾	(a) EN 16623 (fire resistance test and durability test) or ISO 834-6 or ISO 834-7 (fire resistance test) and EN 16623 (durability test) or BS 476-21 or AS 1530-4 (load-bearing fire resistance test) and BS 8202-2 (durability tests).	Scheme 5 (DoCs issued)	Full durability test and fire test over 3 years	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m ²
28.	Landing valve	BS 5041-1	Scheme 5 (Labels issued)	Scheme 5 – Testing for every 1500 labels or At least once annually, if fewer than 1500 labels Full tests over 5 years for both low and high pressure valve types	Scheme 5 – Factory inspection to be conducted at least once annually or by trigger (every 1500 labels) and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b - Batch testing	Scheme 1b – Site inspection triggered by certification body for each batch ⁽¹⁰⁾

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
29.	Breeching inlet	BS 5041-3	Scheme 5 (Labels issued)	Scheme 5 – Testing for every 1000 labels or At least once annually, if fewer than 1000 labels Full tests over 5 years for both 2-way and 4-way types	Scheme 5 – Factory inspection to be conducted at least once annually and Site inspection(s) triggered by certification body ⁽¹⁰⁾
			Scheme 1b (Labels issued)	Scheme 1b - Batch testing	Scheme 1b – Site inspection triggered by certification body for each batch ⁽¹⁰⁾
30.	Raised floor panel ⁽⁹⁾	(a) BS 476-4 or BS 476-11 or EN 13501-1 (min. class A2 _{fl} – applicable to the core material of composite construction)	Scheme 2	Annual surveillance test shall only require material testing and adopt the same test standards that were adopted for the material testing at the point of CoC listing	Not applicable
31.	Material for wall/ceiling/ floor construction ⁽⁹⁾	(a) BS 476-4 or BS 476-11 or BS 476-7	Scheme 2	Annual surveillance test shall only require material testing and adopt the same test standards that were adopted for the material testing at the point of CoC listing	Not applicable

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		or BS 476-6 & BS 476-7 or EN 13501-1 For plastic wall/ceiling/floor construction, refer to <i>CI 3.15.19</i> for the testing requirements		For plastic wall/ceiling/floor construction, annual surveillance test shall be based on <i>CI 3.15.19</i>	
32.	Thermal insulation material ⁽⁹⁾	(a) BS 476-4 or BS 476-11 or BS 476-7 or BS 476-6 & BS 476-7 or EN 13501-1 and 2 For plastic wall/ceiling/floor construction, refer to <i>CI 3.15.19</i> for the testing requirements	Scheme 2	Annual surveillance test shall only require material testing and adopt the same test standards that were adopted for the material testing at the point of CoC listing For plastic wall/ceiling/floor construction, annual surveillance test shall be based on <i>CI 3.15.19</i>	Not applicable
33.	Finishing material for wall/ceiling ⁽⁹⁾	(a) BS 476-4 or BS 476-11 or	Scheme 2	Annual surveillance test shall only require material testing and adopt the same test standards that were adopted for the material	Not applicable

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		BS 476-7 or BS 476-6 & BS 476-7 or EN 13501-1 and 2 For plastic wall/ceiling finishes, refer to <i>CI 3.15.19</i> for the testing requirements		testing at the point of CoC listing For plastic wall/ceiling finishes, annual surveillance test shall be based on <i>CI 3.15.19</i>	
34.	Plastic finishing material for floor	For plastic floor finishes, refer to <i>CI 3.15.19</i> of for the testing requirements.	Scheme 2	For plastic floor finishes, annual surveillance test shall be based on <i>CI 3.15.19</i>	Not applicable
35.	Roof covering material ⁽⁹⁾	(a) BS 476-4 or BS 476-11 or BS 476-7 or BS 476-6 & BS 476-7 or EN 13501-1 or ASTM E108 For plastic roof covering, refer to <i>CI</i>	Scheme 2	Annual surveillance test shall only require material testing and adopt the same test standards that were adopted for the material testing at the point of CoC listing For plastic roof covering, annual surveillance test shall be based on <i>CI 3.15.19</i>	Not applicable

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		3.15.19 for the testing requirements			
36.	Composite panel (cladding to external wall) ^{(8) (9)} <i>(Composite panel shall be tested on its core material or as an assembly)</i>	For test on the core material of composite panel (a) BS 476-4 or BS 476-11 or BS 476-6 & BS 476-7 or EN 13501-1	Scheme 2 Scheme 5 (DoCs issued)	Annual surveillance test to be conducted. In addition, surveillance test shall also be conducted for every project. Testing from project site during the surveillance window fulfills the annual test requirement for that window. Surveillance test shall only require material testing and adopt the same test standards adopted for the material testing at the point of CoC listing.	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every project
		For test on the composite panel assembly NFPA 285		Annual surveillance test (finger printing) to be conducted. In addition, surveillance test shall also be conducted for every project. Testing from project site during the surveillance window fulfills the annual test requirement for that window. Surveillance test shall only require finger printing and adopt the same finger printing test standards adopted at the point of CoC listing.	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every project

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
37.	UPVC window frame material	ASTM D635	Scheme 2	Annual surveillance test based on ASTM D635	Not applicable
38.	Engineered Timber Cross/glued laminated timber	(a) EN 1363 and (b) EN 1364 + with material testing in accordance with EN 13501-1 (min. Class D) or EN 1365 + with material testing in accordance with EN 13501-1 (min. Class D)	Scheme 5 (DoCs issued)	Annual surveillance test shall only require material testing under Scheme 2, and adopt the same test standards that were adopted for the material testing at the point of CoC listing Site inspection triggered by DoC (every 3500m ²)	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m ²
39.	Solar Photo-voltaic (PV) roof-mounted module	IEC 61730-2 (for fire test only and with a minimum fire performance rating of Class C)	Scheme 2	Biennial surveillance fire test in accordance to IEC 61730-2 (for fire test only)	Not applicable
40.	Coldroom material	39.1 For non-fire-rated coldroom material (a) Flame spread test: EN 13501-1 and (b) Toxicity emission test: EN 45545-2 and (c) Smoke density test : EN 13501-1	Scheme 5 (DoCs issued)	Annual surveillance test in accordance with Flame spread test and Toxicity emission test and Smoke density test Site inspection triggered by DoC (every 3500m ²)	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 3500m ²

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		<p>39.2 For fire-rated coldroom material</p> <p>(a) Fire resistance test: BS 476-22 or EN 1364-1 or AS 1530-4 or ASTM E119 or ISO 834-8 and</p> <p>(b) Flame spread test: EN 13501-1 and</p> <p>(c) Toxicity emission test: EN 45545-2 and</p> <p>(d) Smoke density test: EN 13501-1</p>	Scheme 5 (DoCs issued)	<p>Annual surveillance test shall only require material testing for (b), (c) and (d), and adopt the same test standards that were adopted for the material testing at the point of CoC listing</p> <p>Site inspection triggered by DoC (every 3500m²)</p>	<p>Factory inspection to be conducted at least once annually and</p> <p>Site inspection to be conducted for every 3500m²</p>
41.	Household shelter door	<p>Refer to SCDF's circulars on the:</p> <p>(a) Technical Requirements of Household Shelters 2001 & Product Listing Scheme for Household Shelter (HS) Door dated 28 Feb 2002 and</p> <p>(b) Product Listing Scheme (PLS) for Household Shelter (HS) Doors – Revision in Rubber Gasket Specification dated 17 Mar 2004 and</p> <p>(c) Product Listing Scheme for Household Shelter Doors – Revision in Cathode Electro-Deposition (CED) Coating</p>	Scheme 5 (Labels issued)	<p>Once every 3 years for cyclic test.</p> <p>Annually for water tightness test, dimension check, CED coating test & rubber gasket test</p>	<p>Factory inspection to be conducted at least once annually and</p> <p>Site inspection to be conducted for every 200 labels</p>

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
		Test Specification dated 8 Feb 2006			
42.	Storey shelter door	Refer to SCDF's circular on the Product Listing Scheme (PLS) for Storey Shelter (SS) Door dated 8 Feb 2006	Scheme 5 (Labels issued)	Once every 3 years for cyclic test. Annually for water tightness test, dimension check, CED coating test & rubber gasket test	Factory inspection to be conducted at least once annually and Site inspection to be conducted for every 200 labels

Note:

- 1) ASTM E119 are not acceptable for load-bearing elements.
- 2) *Cl.3.3.6* shall be complied with.
- 3) The insulation criterion shall be at least 30 minutes.
- 4) Insulation criteria of ducting system shall have both internal and external rating.
- 5) Requirements apply to upholstered seats and plastic seats, either in fixed position or retractable type.
- 6) For BS 8202 the external system durability test shall be for:
 - a) Humidity test, b) washing test, c) Sulphur dioxide test, d) salt spray test, e) heat exposure test, f) natural exposure test, g) control specimen test.
 The internal system durability test shall be for:
 - a) Sulphur dioxide test, b) natural exposure test, c) heat exposure test, d) washing test, e) humidity test, f) control specimen test.
 For EN 16623 the durability test shall be for type 'X' intended for all conditions and type 'Y' intended for internal and semi-exposed conditions.
- 7) Local CoC is not required unless full testing done locally. For more information, refer to *Cl.6.3.6*.
- 8) External wall shall have fire-resistance test rating not less than 1 hour.
- 9) Refer to Table 3.13A, Note (2) for fire classification of construction products & building elements.
- 10) Site inspection refers to verifications of the installed product against the details in the CoC, type test report that was considered for issuance of

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
				<p>the CoC, and inspection of serial labels as stipulated in Regulation 7 of the Fire Safety (Regulated Fire Safety Products) Regulations 2020. The number of site inspections to be done should be in accordance with Regulation 7 of the same Subsidiary Legislation.</p> <p>11) Batch inspection shall include checks of the individual components either in factory/site/warehouse.</p> <p>12) “DoC” stands for “Declaration of Compliance”.</p> <p>13) SS EN 3 7 is not a full adoption of EN 3 7. The modifications are described in the National Forward of SS EN 3 7.</p> <p>14) Use permitted in sprinkler protected buildings only.</p> <p>15) Materials containing plastics shall not be allowed.</p> <p>16) Installation of UPVC window frames shall conform to Cl.3.15.20.</p> <p>17) Door closers used in fire rated door are separately listed under PLS Class Scheme 5.</p> <p>18) Insulating lining shall achieve Class 1 flame spread rating.</p>	