

Submit Comments

## ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS – 4 JUNE 2021

Under the National Standardisation Programme, the public comment period is an important stage of standards development. Members of the public are invited to provide feedback on draft Singapore Standards for publication and work item proposals for development and review of Singapore Standards and Technical References. The establishment of Singapore Standards is done in accordance with the World Trade Organisation's requirements for the development of national standards.

### A) Notification of Draft Singapore Standards for Publication

Members of the public are invited to comment on the following Singapore Standard documents:

Building and Construction – [fastenings for use in concrete](#), [precast concrete slabs and walls](#) (2 standards)

Chemical – [hazardous waste management](#), [solar reflective water-based coatings](#), [thermal fogger](#)

Environment and Resources – [audit and certification of energy management systems](#)

Food – [good animal husbandry practice for layer farms](#)

For more information on viewing the documents, [click here](#).

Closing date for comments: **5 August 2021** (except for standard on thermal fogger which will close on **17 August 2021**)

Please submit comments to: [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

### B) Notification of New Work Items

New Work Items (NWIs) are approved proposals to develop new Singapore Standards or Technical References (pre-standards).

Members of the public are invited to comment on the scope of the new standards and contents that can be included into the following proposals:

Biomedical and Health – [authentication method for edible bird's nest](#)

Information Technology – [secure artificial intelligence \(AI\) applications](#), [labelling scheme \(CLS\) for consumer IoT security](#), [tiered cybersecurity](#)

The NWIs are work-in-progress and the drafts are not available at this juncture.

Closing date for comments: **5 July 2021**.

Please submit comments to: [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

Members of the public are also invited to join as standards partners, co-opted members or resource members subject to the approval of relevant committees and working groups.

To comment or to join in the development of these standards, please write to [kay\\_chua@enterprisesg.gov.sg](mailto:kay_chua@enterprisesg.gov.sg).

## **A) Notification of draft Singapore Standards for Publication**

### **(I) Building and Construction**

#### **New**

#### **1. Eurocode 2 – Design of concrete structures – Part 4: Design of fastenings for use in concrete (Identical adoption of EN 1992-4:2018)**

##### **National Annex to Eurocode 2 – Design of concrete structures – Part 4: Design of fastenings for use in concrete (Modified adoption of NA to BS EN 1992-4:2018)**

This standard and its national annex provide a design method for fastenings (connection of structural elements and non-structural elements to structural components), which are used to transmit actions to the concrete.

Potential users of the standard include consultants, contractors, developers, professional engineers, suppliers / manufacturers, tertiary institutions, testing bodies, accreditation bodies and relevant government agencies.

#### **2. Design and execution of precast concrete slabs and walls for buildings**

The review of the Code of practice for precast concrete slab and wall panels (CP 81 : 1999) resulted in the development of this new standard.

This standard gives recommendations and guidelines for the design, production and construction of precast slab and wall panels in buildings. It covers the following main areas:

- Design and durability;
- Water-tightness and weather-resistance at precast joints;
- Production quality control;
- Handling, storage, transportation and erection; and
- Acceptance of precast components.

Potential users of the standard include consultants, contractors, developers, professional engineers, suppliers / manufacturers, tertiary institutions, testing bodies, accreditation bodies and relevant government agencies.

#### **Withdrawal**

#### **3. Code of practice for precast concrete slab and wall panels (CP 81 : 1999)**

This standard is recommended for withdrawal as it will be replaced by the new standard, “Design and execution of precast concrete slabs and walls for buildings” (see item 2).

### **(II) Chemical**

#### **Revision**

#### **4. Code of practice for hazardous waste management (Revision of SS 603 : 2014)**

This standard sets out the procedures and practices for safe management of hazardous wastes generated from industrial, institutional and other work activities. It also sets out the key requirements for collection, transportation, storage, treatment and disposal of hazardous wastes. This standard makes reference to bio-hazardous and radioactive wastes and other specialised types of waste.

This revision enhances the requirements for proper management of hazardous waste by generators, carriers and collectors. It provides better clarity on proper labelling, storage, testing and documentation on the type and composition of waste that are sent to toxic industrial waste collector for treatment.

Potential users of the standard include persons, organisations and industries involved in the generation, collection, transportation, storage, treatment and disposal of hazardous wastes who implement environmentally-sound and safe waste management practices.

### **New**

#### **5. Specification for solar reflective water-based coatings**

This standard sets out the product specifications for ready-for-use, solar reflective water-based coating on exterior of external masonry façades. Facades are walls with slope angles of more than 70°. The recoating of previously painted surfaces which are in a sound condition and suitable for receiving such a coating is covered by the standard. Test methods for the quality and performance of the coatings are also covered in this standard. This standard adopts SS 345, "Specification for algae resistant emulsion paint for decorative purposes" with the addition of solar reflective performance properties.

This standard does not apply to roofs, pavements, metallic substrates application, elastomeric coating, for waterproofing or other exterior cladding.

Potential users of the standard include paint manufacturers, suppliers, test laboratories, contractors, applicators, architectural associations, consultants, facilities/property managers, building surveyors and relevant government agencies.

#### **6. Safe use of thermal foggers during pest management activities**

This standard specifies the requirements for the safe use of thermal foggers for purpose of pest control. It includes requirements for safe handling of pesticides such as storage and disposal, for the purpose of thermal fogging. This standard also covers the risk management of thermal fogging activities, including safety aspects in operating and handling of thermal foggers, proper maintenance and storage, measures to prevent fire during thermal fogging and proper emergency planning and first aid procedures.

Potential users of this proposed standard include vector control management companies, town councils, estate managers, manufacturers and suppliers of vector control equipment, vector control workers and technicians as well as relevant government agencies.

NOTE – This draft will be released for public comment from 16 June to 17 August 2021.

### **(III) Environment and Resources**

#### **Revision**

#### **7. Energy management systems – Requirements for bodies providing audit and certification of energy management systems (Revision of SS ISO 50003 : 2014) (Identical adoption of ISO 50003 : 2021)**

This standard specifies requirements for competence, consistency and impartiality in the auditing and certification of ISO 50001 energy management systems (EnMS) for bodies providing these services. In order to ensure the effectiveness of EnMS auditing, this standard addresses the auditing process, the competence requirements for the personnel involved in the certification process for EnMS, the audit time and multi-site sampling.

Potential users of the standard include inspection and certification bodies.

### **(IV) Food**

#### **New**

#### **8. Specification for good animal husbandry practice for layer farms**

The standard specifies requirements for a farm management system detailing best practices to ensure the production of safe and high-quality produce, while minimising impact to the environment.

The standard covers all phases of farm operations, including pre-production (e.g. hatchery, breeder stock and pullet), production (e.g. laying stages), egg collection, post-production (e.g. management of spent birds, etc.). This standard applies to chicken layer and quail layer farms.

It covers the following four areas of agriculture farm production:

- Food safety and quality;
- Animal health and welfare;
- Environmental management; and
- Worker health and safety.

Potential users of this standard include farmers, farm suppliers, buyers of farm produce (e.g. importers, exporters and retailers), testing, inspection and certification bodies, training providers, institutes of higher learning and relevant government agencies.

Copies of the drafts and standards are available at:

[Viewing from Singapore Standards eShop](#)

Login to Singapore Standards eShop at: [www.singaporestandardseshop.sg](http://www.singaporestandardseshop.sg)

[Login ► Go to Menu (3 bars for mobile users) ► Our Products ► Singapore Standards ► Drafts ► Select document]

[Viewing Singapore Standards and ISO Standards from National Libraries](#)

All public libraries' multimedia stations and on personal internet/mobile devices (e.g. mobile phones, notebooks, tablets) at all public libraries via NLB eDatabases "Singapore and ISO Standards Collection" (refer to [www.nlb.gov.sg/VisitUs.aspx](http://www.nlb.gov.sg/VisitUs.aspx) for address and viewing hours)

[Purchase of Singapore Standards](#)

Toppan Leefung Pte Ltd

Customer Service Hotline: (65) 6826 9691

Email: [singaporestandardseshop@toppanleefung.com](mailto:singaporestandardseshop@toppanleefung.com)

Operating Hours:

Mon to Fri: 9.30 am to 6.00 pm

Closed on Saturdays, Sundays and Public Holidays

**NOTE** – The viewing period of the drafts and standards will expire on the closing of the public comment period and will no longer be available after this date.

## **B) Notification of New Work Items**

### **(I) Biomedical and Health**

#### **1. Rapid, non-destructive, on-site near infrared spectroscopy (NIRS) based authentication method for edible bird's nest**

This standard provides an accurate, rapid, non-destructive, on-site authentication method for edible bird's nest (EBN). It also provides more information on the test method which includes running the authentication test with appropriate positive and negative controls, instructions/guidelines on differentiating authentic, fake and adulterated EBN based on distinctive "signature" spectrum and the various instrument specifications and consumables.

Potential users of the standards include testing laboratories, manufacturers, wholesalers, associations and retailers.

### **(II) Information Technology**

#### **2. Technical Reference – Guiding secure artificial intelligence (AI) applications**

This standard provides guidance on the development and testing of security for AI systems, to increase trust in AI applications and widen their adoption.

The standard specifies the following:

- Guidelines for developing secure AI systems;
- Pitfalls and typical associated threats and risks to AI systems, along with possible mitigation techniques and methods;
- Approaches to measure and assess correct system behaviour (security and resilience, data protection and privacy, as well as explainability) according to defined quality criteria for different sectors close to the national AI strategy and high-risk applications.

The specification of levels of trustworthiness for AI systems is outside the scope of this standard.

Potential users of the standard include companies providing and using AI solutions and products, institutes of higher learning, research institutions and relevant government agencies.

### **3 Technical Reference – Cybersecurity labelling scheme (CLS) for consumer IoT security**

The standard provides a flexible, multi-levelled and cost-effective labelling scheme for consumer IoT to raise the cybersecurity hygiene of the IoT eco-system, referencing baseline requirements from EN 303 645, “Cyber security for consumer Internet of Things : Baseline requirements”.

Potential users of this standard include Wi-Fi router manufacturers, IoT smart home device manufacturers and relevant government agencies.

### **4. Technical Reference – Tiered cybersecurity standards for enterprises**

This standard is intended to provide a framework to guide enterprises in managing information security based on their respective business risk levels. The intention is to improve the cybersecurity posture of businesses and their supply chains, and for the security assurance of their clients.

Potential users of this standard include SMEs and large enterprises, certification bodies and relevant government agencies.

Submit Comments

## Frequently asked questions about public comment on Singapore Standards:

### 1. What is the public comment on Singapore Standards?

Singapore Standards are established based on an open system which is also in accordance with the requirements of the World Trade Organisation. These documents are issued as part of a consultation process before any standards are introduced or reviewed. The public comment period is an important stage in the development of Singapore Standards. This mechanism helps industry, companies and other stakeholders to be aware of forthcoming changes to Singapore Standards and provides them with an opportunity to influence, before their publication, the standards that have been developed by their industry and for their industry.

### 2. How does public comment on Singapore Standards benefit me?

This mechanism:

- ensures that your views are considered and gives you the opportunity to influence the content of the standards in your area of expertise and in your industry;
- enables you to be familiar with the content of the standards before they are published and you stand to gain a competitive advantage with this prior knowledge of the standards.

### 3. Why do I have to pay for the standards which are proposed for review or withdrawal?

These standards are available for **free viewing** at Toppan Leefung Pte Ltd and all public libraries. However, the normal price of the standard will be charged for those who wish to purchase a copy. At the stage where we propose to review or withdraw the standards, the standards are still current and in use. We seek comments for these standards so as to:

- provide an opportunity for the industry to provide inputs for the review of the standard that would make the standard suitable for the industry's use,
- provide feedback on the continued need for the standard so that it will not be withdrawn,

### 4. What happens after I have submitted my comments?

The comments will be channelled to the relevant standards committee for consideration and you will be informed of the outcome of the committee's decision. You may be invited to meet the committee if clarification is required on your feedback.

### 5. Can I view drafts after the public comment period?

Drafts will not be available after the public comment period.

### 6. How do I request for the development of a new standard?

You can propose the development of a new standard [here](#).