Three new standards from SC 13

In November, ISO 16739-1:2018 Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries – Part 1: Data schema was published. The Industry Foundation Classes, IFC, are an open international standard for Building Information Model (BIM) data that are exchanged and shared among software applications used by the various participants in the construction or facility management industry sector.

The standard includes definitions that cover data required for buildings over their life cycle. This release, and upcoming releases, extend the scope to include data definitions for infrastructure assets over their life cycle as well.

IFC is developed in buildingSmart International, and further developed to an ISO standard in ISO/TC 59/SC 13/JWG 12 “Joint ISO/TC 59/ISO/TC 184/SC 4 WG: Development of building data related standards”, which is convened by Thomas Liebich, Germany.

With December came the publication of another two standards from SC 13. ISO 19650-1:2018 Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 1: Concepts and principles provides recommendations for a framework to manage information including exchanging, recording, versioning and organizing for all actors.

ISO 19650-2:2018 Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 2: Delivery phase of the assets specifies requirements for information management, in the form of a management process, within the context of the delivery phase of assets and the exchanges of information within it, using building information modelling.

This standard can be applied to all types of assets and by all types and sizes of organizations, regardless of the chosen procurement strategy.

Both standards and are developed under the Vienna Agreement with CEN/TC 442, so in CEN, they will become EN ISO standards. They are the two first standards developed by ISO/TC 59/SC 13/WG 13, convened by Anne Kemp, UK.

ISO/CD 9650-3 Operational phase of assets and ISO/CD 19650-5 Specification for security-minded building information modelling, digital built environments and smart asset management are under development, currently out for CD ballot in SC 13 with end date 2019-02-06.

By Lisbet Landfeld, Secretary of SC 13 (lla@standard.no)

Chairman’s corner

The year is drawing to a close, and the holiday season is approaching. Looking back, 2018 has been another eventful and productive year in the committee.

We have established a new working group on security in the built environment, we have started nine new projects, we have had seven Draft International Standards under ballot, and we have completed five new standards.

Not least have we started looking into the potential for digitalisation of our standards so that they can be further applied in software. This is in line with ISO’s IT strategy and the purpose is to make our standards even more usable and to help reduce time and costs in the construction industry.

I would like to thank all our experts, delegates and liaisons for your contributions and hard work in 2018 and I look forward to new adventures together in 2019.

Kind regards, Per Jæger

Photo: Johnny Syversen

Design for disassembly and adaptability

One of the projects under SC 17, ISO/DIS 20887 Sustainability in buildings and civil engineering works – Design for disassembly and adaptability – Principles, requirements and guidance, is to be expected for DIS ballot on 31 January. The project is being developed by WG 1 “General principles and terminology”, which is convened by Jabeen Quadir, Canada.

This document provides an overview of Design for Disassembly and Adaptability (Dd/A) principles and potential strategies for integrating these principles into the design process. Dd/A can be used to identify design approaches and potential waste-reduction solutions, to develop system-specific disassembly- and adaptability-conscious details, and to adopt specific strategies for building structure or parts thereof (e.g., the envelope) as well as infrastructure.

ISO/DIS 20887 provides information that is intended to provide owners, architects, engineers, and product designers and manufacturers in their understanding of potential Dd/A options and considerations, and for other parties who are responsible for financing, regulating, constructing, transforming, deconstructing or demolishing construction works. It is applicable to all types of buildings, civil engineering works and their constituent parts. The document also provides guidance on measuring performance toward each Dd/A principle.
SC 8 meetings in Guangzhou, China

Subcommittee SC 8 "Sealants", seven of its Working Groups and five Ad Hoc Groups met in Guangzhou, China, during three days in October 2018. Experts and delegates from Belgium, China, France, Germany, Netherlands, Japan, Korea, United Kingdom and the USA attended the meetings.

Excellent progress was made in both the Working Groups and Ad Hoc Groups. Four of the Working Groups are revising existing ISO standards: WG10 "Aesthetic Issues" (ISO 16938), WG 14 "Stringiness of Sealants (ISO 11527), WG18 “Surface Preparations” (ISO 13640), and WG 12 "Vocabulary" (ISO 6927), while three Working Groups are focused on the development of new standards: WG 20 Adhesion Peel Test, WG 21 Test Method of Microbiological Susceptibility of Sanitary Sealants, and WG 22 Cure Profile of Sealants.

The various Ad Hoc Groups are laying the foundation for potential future standards by working on a wide range of topics: Consequences of Mass and Volume Changes on Sealant Performance (AHG 9), Foam Sealing Products (AHG 11), Adhesion of Coatings to Sealants (AHG 12), Dirt Pick-up of Sealants and Coated Sealants (AHG 13), Measurement of Self-levelling Properties (AHG 14).

At the meeting in Guangzhou, SC8 decided to convert AHG 14 into a new working group (WG 23) and to create two more working groups focused on the revision of standards: WG 24 “Determination of Adhesion/Cohesion Properties of Sealants at Constant Temperature” (ISO 9046) and WG 25 “Determination of Resistance to Prolonged Exposure to Water” (ISO 13638). SC 8 now has three working groups that are led by conveners based in Asia (WG 21: Korea, WG 23 and WG 25: China).

SC8 was excited to visit one of the world’s largest construction sealants markets and highly appreciated the invitation to Guangzhou by the Chinese delegation and the Standardization Administration of China (SAC). The subcommittee expressed their heartfelt thanks to their hosts.

By Andreas T. Wolf, Chair of ISO/TC 59/SC 8 (as_scitech_consulting@t-online.de)

The 2018 ISO/TC 59 plenary week

ISO/TC 59 and six of its eight subcommittees met in Beijing, China, in October. A total of 22 meetings were held in seven days, and close to 80 experts and delegates from near and far attended. We are very grateful to the Ministry of Housing and Urban-Rural Development, to the Standardization Administration of China (SAC) and to China Institute of Building Standard Design & Research (CBS) for their generous hospitality and for providing such excellent facilities during the Beijing meeting week.

In addition to our scheduled meetings, our hosts also arranged three international summits. One summit was focused on climate change and building resilience, linked to the work of ISO/TC 59/WG 4 "Resilience of buildings and civil engineering works", and another summit was related to building information modelling (BIM). This BIM summit was also the inauguration of the first Chinese expert committee to ISO/TC 59's SC 13, SC 17 and ISO/TC 10/SC 8. Both summits had over 50 participants and a number of speakers both from China and the ISO/TC 59 community.

The topic of the third summit was the exchange of experiences with international standardisation activities. More than 300 people, many from the Chinese government, participated at this full-day event, where several representatives from ISO/TC 59 and our subcommittees were among the guest speakers.
Some glimpses from the 2018 ISO/TC 59 plenary week

Certificate of Appreciation to Andreas T. Wolf

The current Chair of SC 8 "Sealants", Andreas T. Wolf, representing Belgium, was awarded the ISO Certificate of Appreciation for his considerable contribution to ISO activities, and in particular his dedication to SC 8. Wolf joined the work of SC 8 in 1980 and has now chaired the subcommittee for the past nine years. He will be succeeded by Ruud De Block from the Netherlands from 1 January 2019.

The photo shows Wolf receiving the certificate from Per Jaeger, the Chair of ISO/TC 59. To the front is Jianqing (Chloe) Zhang, the Secretary of SC 8.

Photo: KSB

From the plenary of SC 13 "Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)". Photo courtesy of CBS

From the plenary of SC 2 "Terminology and harmonization of languages".

Photo: KSB

From the summit on climate change and building resilience Photo: KSB

From the plenary of SC 15 "Framework for the description of housing performance".

Photo courtesy of CBS

Published since June 2018

ISO 13640:2018 Buildings and civil engineering works – Sealants – Specifications for test substrates (SC 8)
ISO 11527:2018 Buildings and civil engineering works – Sealants – Test method for the determination of stringiness (SC 8)
ISO 16739-1:2018 Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries – Part 1: Data schema (SC 13)
ISO 19650-2:2018 Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling – Part 2: Delivery phase of the assets (SC 13)