



**ISO/TC 71 "Concrete, reinforced concrete and pre-stressed concrete"**  
Secretariat: **JISC**  
Committee manager: **Yokota Hiroshi Dr**



## **Meeting document - 29th TC 71 Plenary meeting - Report of subcommittees, working groups and ad-hoc group**

<b>Document type</b>	<b>Related content</b>	<b>Document date</b>	<b>Expected action</b>
Meeting / Presentation	Meeting: <a href="#">Bangkok (Thailand) 22 Nov 2024</a>	2024-11-27	<b>INFO</b>

### **Description**

This document relates to Agenda 9 of the 29th TC 71 Plenary meeting.

# Report from Subcommittees and Working groups

Status of work, consideration of revised work plans, proposed new work items and sub-committee resolutions

ISO/TC 71/SC 1  
Test methods for concrete



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# **ISO/TC 71/SC 1 - Test Methods for Concrete**

**Secretariat: The Standards Institution of Israel (SII)**

**Chairperson: Yossi Sikuler (Israel)**

**Committee Manager: Nir Shamir (Israel)**

**TC 71 29<sup>th</sup> Meeting**

**November 22<sup>nd</sup>, 2024**

**Hybrid:**

**Bangkok, Thailand**

**Zoom Host: SII**



# ISO TC 71/SC 1

## Test Methods for Concrete

### MEMBERSHIP STATUS:

#### Participating countries (17)

1. Australia (SA)
2. Brazil (ABNT)
3. China (SAC)
4. France (AFNOR)
5. Germany (DIN)
6. India (BIS)
7. Indonesia (BSN)
8. Iran (INSO)
9. Israel (SII)
10. Japan (JISC)
11. Korea, Republic of (KATS)
12. Norway (SN)
13. Russian Federation (GOST-R)
14. Sri Lanka (SLSI)
15. Sudan (SSMO)
16. Switzerland (SNV)
17. United Kingdom (BSI)

One P member added, Sudan

#### Observing countries (32)

1. Belarus (BELST)
2. Belgium (NBN)
3. Bulgaria (BDS)
4. Chile (INN)
5. Colombia (ICONTEC)
6. Czech Republic (UNMZ)
7. Egypt (EOS)
8. Finland (SFS)
9. Greece (NQIS ELOT)
10. Guatemala (COGUANOR)
11. Hong Kong (ITHKSAR)
12. Hungary (MSZT)
13. Iceland (IST)
14. Italy (UNI)
15. Kazakhstan (KAZMEST)
16. Mexico (DGN)
17. Mongolia (MASM)
18. Netherlands (NEN)
19. New Zealand (SNZ)
20. Pakistan (PSQCA)
21. Palestine (PSI)
22. Philippines (BPS)
23. Poland (PKN)
24. Romania (ASRO)
25. Serbia (ISS)
26. Singapore (SSG)
27. Slovakia (UNMS-SR)
28. South Africa (SABS)
29. Spain (AENOR)
30. Turkey (TSE)
31. Ukraine (DSTU)
32. Uruguay (UNIT)

One O member removed, Sudan



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**ISO TC 71/SC 1**

**Test Methods for Concrete**



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# **Status of work and consideration of revised work plan**



### General

- **The committee works in full coordination to achieve best synergy in the preparation of both testing (SC 1) and requirements standards (SC 3).**
- **There is useful activity of the WG conveners.**
- **There is a strong activity for aggregate test methods.**
- **Two new proposal for Sprayed Concrete test method are under development.**
- **The test methods may be classified by:**
  - **Fresh concrete tests**
  - **Hardened concrete tests**
  - **Hardened concrete performance tests (Chemical, Physical, Mechanical)**
  - **Special Concrete types tests (Pervious, Sprayed)**
  - **Aggregate tests (Chemical, Physical, Mechanical)**

## Projects under development :

- **ISO/CD 23945-2 - Test methods for sprayed concrete - Part 2: Sampling fresh and hardened concrete – Closed for comments on 10/10/2024**
- **ISO/CD 23945-3 - Test methods for sprayed concrete - Part 3: Measurement of compressive strength – closed for comments on 10/10/2024**
- **ISO/DIS 23945-1IS methods**





# ISO 1920 Series – Testing of concrete (14)

1920 series		Status	Observations
Part 1 v.3	Sampling of fresh concrete	Published 2004	SR approved on: 2024-03-09
Part 2 v.1	Properties of fresh concrete (Regular concrete)	Published 2016	SR approved on: 2022-04-03
Part 3 v.2	Making and curing of test specimens	Published 2019	SR – Ballots open date on: 2024-10-15
Part 4 v.2	Strength of hardened concrete	Published 2020	Publication since 2020-01-07
Part 5 v.2	Properties of hardened concrete other than strength	Published 2018	SR approved on: 2023-10-28
Part 6 v.2	Sampling, preparing and testing of concrete cores	Published 2019	SR – Ballots open date on: 2024-10-15
Part 7 v.3	Non-destructive tests on hardened concrete	Waiting for revision	SR – Ballots open date on: 2024-10-15
Part 8 v.2	Determination of the drying shrinkage of concrete for samples prepared in the field or in the laboratory	Published 2009	SR – Ballots open date on: 2024-10-15
Part 9 v.2	Determination of creep of concrete cylinders in compression	Published 2009	SR – Ballots open date on: 2024-10-15



# ISO TC 71/SC 1

## Test Methods for Concrete



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### ISO 1920 Series – Testing of concrete (14) - continuation

ISO 1920 series		Status	Observations
Part 10 v.2	Determination of static modulus of elasticity in compression	Published 2010	SR approved on: 2021-07-05
Part 11 v.1	Determination of the chloride resistance of concrete, unidirectional diffusion	Published 2013	SR approved on: 2024-01-16
Part 12 v.1	Determination of the potential carbonation resistance of concrete – accelerated carbonation method	Published 2015	SR approved on: 2020-10-06
Part 13 v.1	Properties of Self Compacting Concrete	Published 2018	SR approved on: 2023-10-28
Part 14 v.1	Setting time of concrete mixtures by resistance to penetration	Published 2019	SR – Ballots open date on: 2024-10-15



### ISO 17785 Series - Pervious concrete testing methods (3)

ISO 17785 series		Status	Observations
<b>Part 1 v.1</b>	Infiltration rate	Published 2016	<b>SR approved on: 2021-11-18</b>
<b>Part 2 v.1</b>	Density and Void content	Published 2018	<b>SR approved on: 2023-09-03</b>
<b>Part 3 CD</b>	Resistance to surface degradation	Published 2023	<b>Published since: 2023-9-18</b>



## ISO 20290 Series –Aggregates for concrete-- Test methods for mechanical and physical properties (5)

	Title	Status	Observations
Part 1	Part 1: Determination of bulk density, particle density, particle mass-per-volume and water absorption	Publication 2021	<b>Published since: 2021-11-02</b>
Part 2	Part 2: Method for determination of resistance to fragmentation by Los Angeles Test (LA-Test)	Published 2019	<b>SR – Ballots open date on: 2024-10-15</b>
Part 3	Part 3: Determination of aggregate crushing value (ACV)	Published 2019	<b>SR – Ballots open date on: 2024-10-15</b>
Part 4	Part 4: Determination of ten per cent fines value (TFV)	Published 2019	<b>SR – Ballots open date on: 2024-10-15</b>
Part 5	Part 5: Determination of particle size distribution by sieving method	Published 2023	<b>Published on 2023-02-03</b>



## ISO 24684 Series –Aggregates for concrete-- Test methods for chemical properties (2)

Title		Status	Observations
Part 1 CD	Part 1: Determination of acid soluble chloride salts	CD	Cancelled
Part 2 DIS	Part 2: Determination of soluble sulfate salts	Published 2023	Published since: 2023-01-10



## ISO 24684 Series –Aggregates for concrete-- Test methods for chemical properties (2)

Title		Status	Observations
Part 1 CD	Part 1: Determination of acid soluble chloride salts	CD	Cancelled
Part 2 DIS	Part 2: Determination of soluble sulfate salts	Published 2023	Published since: 2023-01-10



### ISO 23945 Series – Test Methods for Sprayed Concrete (1)

Title		Status	Observations
Part 1	Part 1: Flash setting accelerating admixtures — Setting time	Published 2022	Published since: 2022-07-11
Part 2	Test methods for sprayed concrete — Part 2: Sampling fresh and hardened concrete	CD	CD Closed for Comments 2024-10-10
Part 3	Test methods for sprayed concrete — Part 3: Measurement of compressive strength	CD	CD Closed for Comments 2024-10-10



**ISO TC 71/SC 1**

**Test Methods for Concrete**



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# **Resolutions of ISO/TC 71/SC 1**

## **Virtual ZOOM Meeting November**

### **13th, 2024**





## **Resolution 1, of ISO/TC 71/SC 1, November 13, 2024**

**ISO/TC 71/SC 1 decides to reinitiate ISO/CD 24684-1—Test Methods of Aggregates for Concrete Chemical properties – Part 1: Determination of acid soluble chloride salt.**

- **The drafting of this standard will be handled by WG 4 Test methods for aggregates.**
- **The committee thanks Mr. Jan Karlsen for agreeing to continue to serve as project leader for this IS.**
- **NP Ballot for this IS will be repeated.**
- **As we reached this stage before, we recommend to restart this project at DIS stage.**
- **It was agreed that in places where there are references to Japanese standards or documents, they will be replaced by text from such documents.**

**Unanimously accepted**



## **Resolution 2, of ISO/TC 71/SC 1, November 13, 2024**

**ISO/TC 71/SC 1 The committee appreciate Professor Zi-Ming Wang  
:activity on the following standards**

- **ISO/CD 23945-2 - Test methods for sprayed concrete - Part 2:  
Sampling fresh and hardened concrete.**
- **ISO/CD 23945-3 - Test methods for sprayed concrete - Part 3:  
Measurement of compressive strength.**

**Unanimously accepted**



## **Resolution 3, of ISO/TC 71/SC 1, November 13, 2024**

**:ISO/TC 71/SC 1 decides to register as PWI**

**ISO 1920 Part 15 Air void content in hardened concrete**

**ISO 1920 Part 16 Capillary Absorption of Concrete**

- **New WG 8 will be created for these two IS via CIB**
- **Project Leader will be Mr. P.N. Ojha (India)**
- **The following countries resolved to appoint experts for this WG:  
China, Israel, India, Japan and one more country to be named later  
WG 8 resolves to meet within six months after being confirmed.**

**Unanimously accepted.**



## **Resolution 4, of ISO/TC 71/SC 1, November 13, 2024**

**TC 71/SC 1 Approved that WG 7 will initiate two new standards for  
.sprayed concrete**

**ISO 23945-4 – Test methods for sprayed concrete-Part 4: flexural -  
.strength**

**ISO 23945-5 – Test methods for sprayed concrete-Part 5: - -  
Rebound Test**

**Unanimously accepted.**



**Resolution 5, of ISO/TC 71/SC 1, November 13, 2024**

**TC 71/SC 1 Approved professor Noguchi presentation of his appreciated initiative for Non-Destructive test methods at the CAG meeting, for near future activity.**

**Unanimously accepted**



## **Resolution 6, of ISO/TC 71/SC 1, November 13, 2024**

**TC 71/SC 1 The committee thanks professor Choi for his long service to SC 1. Upon his recommendation, the committee decides to disband .WG 3**

**Unanimously accepted**



# ISO TC 71/SC 1 Test Methods for Concrete



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## **Resolution 7, of ISO/TC 71/SC 1, November 13, 2024**

**ISO/TC 71/SC 1 The committee decides that Yossi Sikuler continue as convenor for WG 4.**

**Unanimously accepted**



# ISO TC 71/SC 1 Test Methods for Concrete



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## **Resolution 8, of ISO/TC 71/SC 1, November 13, 2024**

**ISO/TC 71/SC 1 resolves to meet in 2025 in conjunction with ISO/TC 71 Plenary Meeting.**

**Unanimously accepted**





# ISO TC 71/SC 1 Test Methods for Concrete



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**The skyline of Tel Aviv  
where the SII is located**





**ISO TC 71/SC 1**

**Test Methods for Concrete**



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# Thank you

**Chairperson: Yossi Sikuler**

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**Committee Manager: Nir Shamir**

*[Nir\\_sh@sii.org.il](mailto:Nir_sh@sii.org.il)*

# ISO/TC 71/SC 3

Concrete production and execution of concrete structures

# Report from ISO/TC 71/SC 3

ISO/TC 71 meeting Bangkok

2024-11-22

Åsmund Tøsse



# Organisation

Subcommittee ISO/TC 71/ SC 3	Chairman/ convenor	Secretary	Work items		Published documents
			PWI	Active	
Concrete production and execution of concrete structures	Jan Karlsen	Åsmund Tøsse			11
<b>Working Groups ISO/TC 71/SC 3/WG x</b>					
WG 1 Concrete Production and compliance criteria	Toshiki Ayano			3	
WG 3 Mixing water for concrete	Caijun Shi	Qiang Yuan		1	
WG 10 Recycled aggregates for concrete	Donguk Choi			1	
AHG 2 – Mass concrete with MgO as expansive agent	Wenwei Li	Sijia Zhang			
<b>Total</b>				5	11



## Liaisons and observers

Organisation		Status	Represents
BIBM	European Federation for Precast Concrete	Liaison representative	Rimoldi, Alessio
BIBM	European Federation for Precast Concrete	Liaison representative	Dano, Eddy
CEMBUREAU	The European Cement Association	Liaison representative	Loréa, Claude
FIB	International Federation for Structural Concrete	Liaison representative	Tewes, Rüdiger



# Published documents

Reference	Document title
ISO 22966:2009	Execution of concrete structures
ISO 22965-1:2007	Concrete — Part 1: Methods of specifying and guidance for the specifier
ISO 22965-2:2007	Concrete — Part 2: Specification of constituent materials, production of concrete and compliance of concrete
ISO 22904:2020	Additions for concrete
ISO 19596:2017	Admixtures for concrete
ISO 19595:2017	Natural aggregates for concrete
ISO 16204:2012	Durability — Service life design of concrete structures
ISO 14824-1:2012	Grout for prestressing tendons — Part 1: Basic requirements
ISO 14824-2:2012	Grout for prestressing tendons — Part 2: Grouting procedures
ISO 14824-3:2012	Grout for prestressing tendons — Part 3: Test methods
ISO 12439:2010	Mixing water for concrete



# Active work items

ISO/TC 71/SC 3 has the following active work items:

Standard and/or project under the direct responsibility of ISO/TC 71/SC 3 Secretariat <sup>(5)</sup> ↑	Stage	ICS
⦿ <b>ISO/DIS 12439</b> Mixing water for concrete	40.60	91.100.30
⦿ <b>ISO/DIS 18985</b> Recycled aggregates for concrete	40.20	91.100.30
⦿ <b>ISO/CD TS 21056</b> Recycled aggregate concrete — Additional provisions and guidance for specification, performance, and production	30.60	
⦿ <b>ISO/DIS 22965-1</b> Concrete — Part 1: Methods of specifying and guidance for the specifier	40.20	91.100.30
⦿ <b>ISO/DIS 22965-2</b> Concrete — Part 2: Specification of constituent materials, production of concrete and compliance of concrete	40.20	91.100.30





# Members and participation

## From ISO Directive 1:

**1.7.4** A committee secretariat shall notify the Office of the CEO if a P-member of that committee has been persistently inactive or has failed to vote:

a) Persistently inactive criteria:

A P-Member is considered persistently inactive by failing to attend two successive committee meetings (in person, virtually or by correspondence) and failing to have any Expert(s) appointed to the technical work, or

b) Failing to vote criteria

Has failed to vote on any of the following document(s)

- Proposal stage ballot,
- Enquiry stage ballot,
- Approval stage ballot (for IS, TS, PAS, TR and in IEC SRD)



# Members (P-members and participation)

Participating Members [22]			
Country/Territory ↑	Acronym ↑		
		Japan	JISC <span style="color: red;">■</span> <span style="color: red;">■</span> <span style="color: green;">■</span> <span style="color: blue;">■</span> <span style="color: lightgreen;">■</span>
		Korea, Republic of	KATS <span style="color: red;">■</span> <span style="color: red;">■</span> <span style="color: green;">■</span> <span style="color: blue;">■</span> <span style="color: lightgreen;">■</span>
Australia	SA	Monaco	AMNOR <span style="color: green;">■</span>
Bangladesh	BSTI	Netherlands	NEN
Brazil	ABNT <span style="color: red;">■</span>	Norway	SN <span style="color: red;">■</span> <span style="color: green;">■</span> <span style="color: blue;">■</span> <span style="color: lightgreen;">■</span>
China	SAC <span style="color: red;">■</span> <span style="color: red;">■</span> <span style="color: green;">■</span> <span style="color: blue;">■</span> <span style="color: lightgreen;">■</span>	Russian Federation	GOST R <span style="color: lightgreen;">■</span>
France	AFNOR	Saudi Arabia	SASO
Germany	DIN	Serbia	ISS
India	BIS <span style="color: red;">■</span> <span style="color: red;">■</span> <span style="color: lightgreen;">■</span>	Sudan	SSMO
Indonesia	BSN <span style="color: red;">■</span>	Switzerland	SNV <span style="color: red;">■</span>
Iran, Islamic Republic of	INSO <span style="color: red;">■</span> <span style="color: red;">■</span> <span style="color: lightgreen;">■</span>	United Kingdom	BSI
Israel	SII <span style="color: red;">■</span> <span style="color: red;">■</span> <span style="color: blue;">■</span>	Uruguay	UNIT

<span style="color: red;">■</span>	Plenary 2024
<span style="color: red;">■</span>	Plenary 2023
<span style="color: green;">■</span>	WG1 experts
<span style="color: blue;">■</span>	WG3 experts
<span style="color: lightgreen;">■</span>	WG10 experts



# Members (P-members and participation)

Participating Members [22]			
Country/Territory ↑	Acronym ↑		
Australia	SA	Japan	JISC
Bangladesh	BSTI	Korea, Republic of	KATS
Brazil	ABNT	Monaco	AMNOR
China	SAC	Netherlands	NEN
France	AFNOR	Norway	SN
Germany	DIN	Russian Federation	GOST R
India	BIS	Saudi Arabia	SASO
Indonesia	BSN	Serbia	ISS
Iran, Islamic Republic of	INSO	Sudan	SSMO
Israel	SII	Switzerland	SNV
		United Kingdom	BSI
		Uruguay	UNIT

	Plenary 2024
	Plenary 2023
	WG1 experts
	WG3 experts
	WG10 experts



# Members (O-member)

## ■ Observing Members [33]

Country/Territory ↑	Acronym
Algeria	IANOR
Bahrain	BTMD
Belarus	BELST
Belgium	NBN
Bulgaria	BDS
Chile	INN
Colombia	ICONTEC
Czech Republic	UNMZ
Dominica	DBOS
Egypt	EOS
Finland	SFS
Greece	NQIS ELOT
Guatemala	COGUANOR
Hungary	MSZT
Iceland	IST

Ireland	NSAI
Italy	UNI
Kazakhstan	CTRM
Kenya	KEBS
Malta	MCCAA
Mexico	DGN
Mongolia	MASM
New Zealand	NZSO
Pakistan	PSQCA
Poland	PKN
Portugal	IPQ
Romania	ASRO
Singapore	SSC
Slovakia	UNMS SR
South Africa	SABS
Spain	UNE
Tanzania, United Republic of	TBS
United Arab Emirates	MolAT-STR



## **Documents with pending Systematic review**

The following documents are on Systematic review in 2025:

- ISO 22966:2009 Execution of concrete structures
- ISO 22904:2020 Additions for concrete

# SC 3 meeting

2024-11-20





# Decisions since the last SC 3 meeting

## Resolution 01/2024 - New AHG approved:

- **AHG 2 Mass concrete with MgO as the expansive agent (see N538 and N557)**
- **Only two P-members (SAC and JISC) nominated experts, since two more members (GOST and SN) has nominated**

**Resolution 1/2024 taken by ISO/TC 71/SC 3 on 2024-xx-xx**

**Subject: NEW AHG MASS CONCRETE WITH MGO AS EXPANSIVE AGENT**

ISO/TC 71/SC 3, considering:

- The proposal for a new standardization project from SAC on the meeting of ISO/TC 71/SC 3 on 2023-10-26 (see [Nxxx](#))
- Resolution 7/2023

decides to establish a new AHG “Mass concrete with MgO as the expansive agent”, to make as state-of-the-art report and draft a recommendation on the way forward on standardization on the topic. The AHG will report to ISO/TC 71/SC 3 on their recommendation.

The resolution was taken by 8 positive votes, 0 negative votes and 12 abstentions.



## Decisions since the last SC 3 meeting

***Resolution 2/2024: Re-appointment of ISO/TC 71/SC 3/WG 1 convenor Dr. Toshiki Ayano***

ISO/TC 71/SC 3:

- Noting that the term of the convenorship for Dr. Ayano will end on 2024-12-31;
- Welcomes the willingness of Dr. Ayano to continue as WG 1 convenor;

Re-appoints Dr. Ayano as WG 1 convenor for a new term of three years.

The resolution was taken by 11 positive votes, 0 negative votes and 10 abstentions.





## Decisions since the last SC 3 meeting

***Draft Resolution 3/2024: Re-appointment of ISO/TC 71/SC 3/WG 3 convenor Dr. Caijun Shi***

ISO/TC 71/SC 3:

- Noting that the term of the convenorship for Dr. Shi will end on 2024-12-31;
- Welcomes the willingness of Dr. Shi to continue as WG 3 convenor;

Re-appoints Dr. Shi as WG 3 convenor for a new term of three years.

The resolution was taken by 11 positive votes, 0 negative votes and 10 abstentions.



# Resolutions

Resolution 04/2024	<p><u>Subject: Member activity</u></p> <p>ISO/TC 71/SC 3, considering</p> <ul style="list-style-type: none"><li>– the ISO Directives, Part 1 1.7.4;</li><li>– noting that member bodies have not participated in the last two meetings (including 2024) and have no registered experts in the WGs<ul style="list-style-type: none"><li>o Australia, France, Germany, Netherlands, Saudi Arabia, Serbia, Sudan, United Kingdom and Uruguay</li></ul></li></ul> <p>Decides to</p> <ul style="list-style-type: none"><li>– requests that ISO/CS review the participation of the mentioned Pmembers in ISO/TC 71/SC 3 with the view of reminding them on their obligation as P-members</li><li>– encourage the members to actively participate in SC 3 and working group activities</li></ul> <p>The decision was taken by unanimity.</p>
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# Resolutions

Resolution 05/2024	<p><b><u>Subject: Submission of ISO 12439 to publication stage</u></b></p> <p>ISO/TC 71/SC 3, considering</p> <ul style="list-style-type: none"><li>– the presentation provided in the meeting by WG 3 Secretary Yuan Qiang</li><li>– the proposed solution to comments received in DIS ballot</li><li>– noting no technical changes being made</li></ul> <p>decides</p> <ul style="list-style-type: none"><li>– to submit the draft ISO 12439 (N542) to publication stage, taking into account the editorial changes after the DIS draft</li></ul> <p>The decision was taken unanimity.</p>
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# Resolutions

Resolution 06/2024	<p><b><u>Subject: ISO/TS 21056 Recycled aggregate concrete</u></b></p> <p>ISO/TC 71/SC 3, considering</p> <ul style="list-style-type: none"><li>- The draft ISO/TS 21056 Recycled aggregate concrete (N570)</li><li>- The close relationship between ISO/TS 21056 and the related documents ISO 22965-1 and -2, ISO 22966 and ISO 18985</li><li>- The comments received in the meeting and expected comments to related document ISO 18985</li><li>- The technical comments received in the meeting</li></ul> <p>decides to</p> <ul style="list-style-type: none"><li>- request that the TS is sent back to be revised by the working body</li><li>- change the title to include execution – new title being “Recycled Aggregate Concrete -Additional provisions and guidance for specification, performance, production and execution”</li><li>- request that publication of the TS is aligned with the related documents ISO 18985</li></ul> <p>The decision was taken by unanimity.</p>
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# Resolutions

Resolution 07/2024	<p><u>Subject: AHG 2 Mass concrete using MEA</u></p> <p>ISO/TC 71/SC 3, considering</p> <ul style="list-style-type: none"><li>– the activity report from ISO/TC 71/SC 3/AHG 2</li><li>– the input from the ISO/TC 71/SC 3 meeting</li></ul> <p>decides to</p> <ul style="list-style-type: none"><li>– request that AHG 2 continues their work to prepare new standard proposals for mass concrete, and further discussions on how the structure and order of proposed documents should be</li></ul> <p>India is encouraged to nominate experts to the AHG 2.</p> <p>The decision was taken by unanimity.</p>
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Standards  
Norway

**Speaker:**

*Åsmund Tøsse*

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# ISO/TC 71/SC 4

Performance requirements for structural concrete



# ISO/TC 71/SC 4

## Performance requirements for structural concrete

Secretariat: GOST R  
Committee manager: Mrs. Alexandra Chaltseva  
Chairperson: Mr. Dmitry Kuzevanov  
ISO/CS contact: [Dr. Anna Caterina Rossi](#)



# ISO/TC 71/SC 4

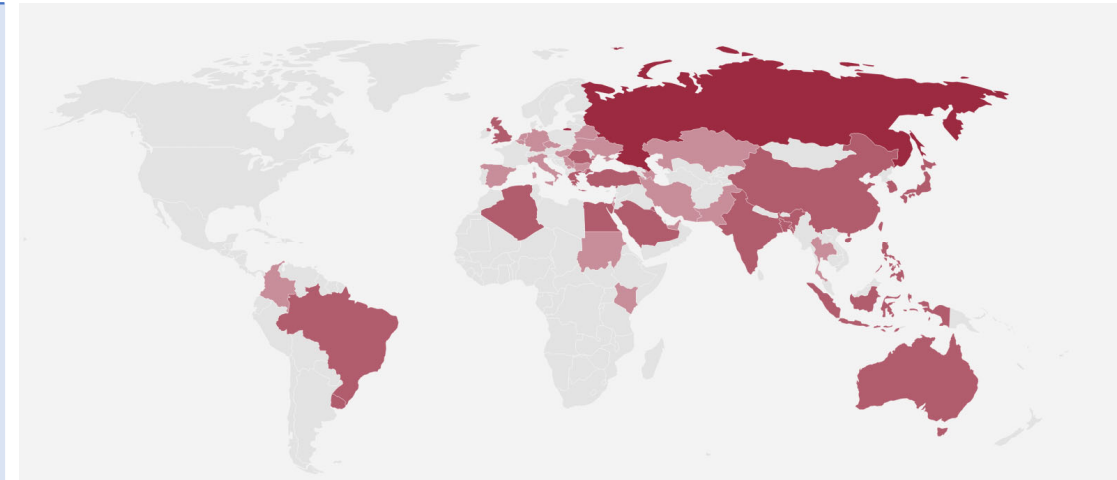
## Participating Members (19)

Algeria  
Australia  
Bangladesh  
Brazil  
China  
Egypt  
Greece  
India  
Indonesia  
Japan  
Korea, Republic of  
Kuwait  
Philippines  
Romania  
Russian Federation  
Saudi Arabia  
Turkey  
United Kingdom  
Uruguay

IANOR  
SA  
BSTI  
ABNT  
SAC  
EOS  
NQIS ELOT  
BIS  
BSN  
JISC  
KATS  
KOWSMD  
BPS  
ASRO  
GOST R  
SASO  
TSE  
BSI  
UNIT

## Observing Members (23)

**Azerbaijan** AZSTAND  
Bahrain BSMD  
Belarus BELST  
Belgium NBN  
Bulgaria BDS  
Colombia ICONTEC  
Czech Republic UNMZ  
Germany DIN  
Hungary MSZT  
Iran, Islamic Republic of INSO  
Israel SII  
Italy UNI  
Kazakhstan KAZMEMST  
Kenya KEBS  
Netherlands NEN  
Pakistan PSQCA  
Serbia ISS  
Singapore SSC  
Spain UNE  
Sudan SSMO  
Thailand TISI  
Ukraine SE UkrNDNC  
United Arab Emirates MoIAT-STR



+ Bangladesh  
+ Azerbaijan

# ISO/TC 71/SC 4

STRUCTURE	LIASON		
<b>WG 1</b>	ISO/TC 98/SC 1	Terminology and symbols	ISO
Performance requirements	ISO/TC 98/SC 2	Reliability of structures	ISO
for design standards on	ISO/TC 98/SC 3	Loads, forces and other actions	ISO
structural concrete			
<b>Convenor:</b>	EC - European	European Commission	A
Mrs Sofia Maria Carrato	Commission		
Diniz			

# ISO/TC 71/SC 4/WG 1

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## Published standards

ISO 19338:2014  
Performance and assessment requirements for design standards on structural concrete

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## Revision

ISO 19338:2014  
Performance and assessment requirements for design standards on structural concrete



**FDIS 19338 Performance requirements for standards on concrete structures**

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# ISO/TC 71/SC 4/WG 1 SCOPE

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This International Standard provides performance requirements for standards on concrete structures. It can be used for international alignment of design, assessment, and construction requirements.

This International Standard includes:

- a) requirements, which define the required performance of the concrete structure,
- b) criteria, which give means for expressing the requirements, and
- c) evaluation clauses, which give acceptable methods of verifying the specific criteria.



This document provides performance requirements for standards on concrete structures. It can be used for international alignment of design, assessment, and construction requirements.

This document includes:

- a) principles, which guide the selection of requirements that translate societal and owner's expectations for the performance of the concrete structure,
- b) requirements, which define the required performance of the concrete structure,
- c) criteria, which give means for expressing the requirements,
- d) evaluation clauses, which give acceptable methods of verifying the specific criteria.

# ISO/TC 71/SC 4/WG 1

## Timeline

Registration date  
2022-10-18

Timeframe  
36 months [✎](#)

Time since registration  
24 months

In stage  
50.00  
for 1 month 10 days

STATUS  
en On Hold  
en ISO/CS processing + FDIS preparation





Thank you!

# ISO/TC 71/SC 5

Simplified design standard for concrete structures

**2024 ISO TC71 hybrid meeting**

**November 22, 2024, Bangkok, Thailand, 09-13 (UTC 02-06, KST 11-15)**



**ISO/TC 71/SC 5 plenary**

# **Secretariat Report**



# ISO TC71/SC5

## Simplified Design Standard for Concrete Structures



Chairman:

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Professor Emeritus

Dept. of Civil & Environmental Engineering

Hanyang University

Committee Manager:

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Professor

Dept. of Civil & Environmental Engineering

SEJONG University

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1. Structure
2. Follow up to the resolutions of July 5, 2024 SC5 meeting
3. SC 5 Hybrid meeting on November 20, 2024
4. Resolutions of SC5 meeting in 2024
5. Status of proposed performance based simplified design

# 1. Structure

# 1. Structure

## About

Secretariat: **KATS**

Committee Manager: **Dr Dong Joo Kim**

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Chairperson (until end 2026): Dr Jongsung Sim

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ISO Technical Programme Manager [TPM]: **Ms Anna Caterina Rossi**

ISO Editorial Manager [EM]: **Ms Anne Guet**

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Creation date: 1996

## Scope

Standardization in the field of simplified design of concrete structures including performance-based design concepts.

# 1. Structure

**Simplified  
design**



**Performance  
based design  
(PBD)**

# 1. Structure



This committee contributes with 11 standards to the following Sustainable Development Goals:



9

Published ISO standards \*

2

ISO standards under development \*

14

Participating members

23

Observing members

\* number includes updates

Structure

Liaisons

Meetings

Reference ↑	Title	Type
ISO/TC 71/SC 5/WG 1 ⓘ	Simplified seismic assessment and rehabilitation of concrete buildings	Working group
ISO/TC 71/SC 5/WG 6 ⓘ	Pre-stressed concrete tanks for potable water	Working group
ISO/TC 71/SC 5/WG 7 ⓘ	Small pre-stressed concrete bridges	Working group

✂ 2024: P-member(14), O-member(23)

## **P-memberships (14)**

Australia (SA), Bangladesh (BSTI), Brazil (ABNT), China (SAC), India (BIS), Japan (JISC), Korea (KATS), Kuwait (KOWSMD), Russian Federation (GOST R), Sudan (SSMO), Türkiye (TSE), Uganda (UNBS), United Kingdom (BSI), Uruguay (UNIT)

## **O-memberships (23)**

Algeria (IANOR), Argentina (IRAM), Bahrain (BTMD), Belarus (BELST), Belgium (NBN), Bulgaria (BDS), Colombia (ICONTEC), Egypt (EOS), France (AFNOR), Hungary (MSZT), Islamic Rep. of Iran (INSO), Israel (SII), Namibia (NSI), Netherlands (NEN), Pakistan (PSQCA), Romania (ASRO), Serbia (ISS), Singapore (SSC), South Africa (SABS), Spain (UNE), Thailand (TISI), Ukraine (SE UkrNDNC), United Arab Emirates (MolAT-STR)

**2. Follow up to the resolutions  
of July 5, 2024 SC5 meeting**



## 2. Follow up to 2024 zoom meeting, July 5, 2024.

A total of 24 delegates representing 7 countries (6 P-members, 1 O-member) and European Commission (Dr. Negro Paolo and Lamperti Tornaghi Marco) attended the meeting. **Quorum was approved.**

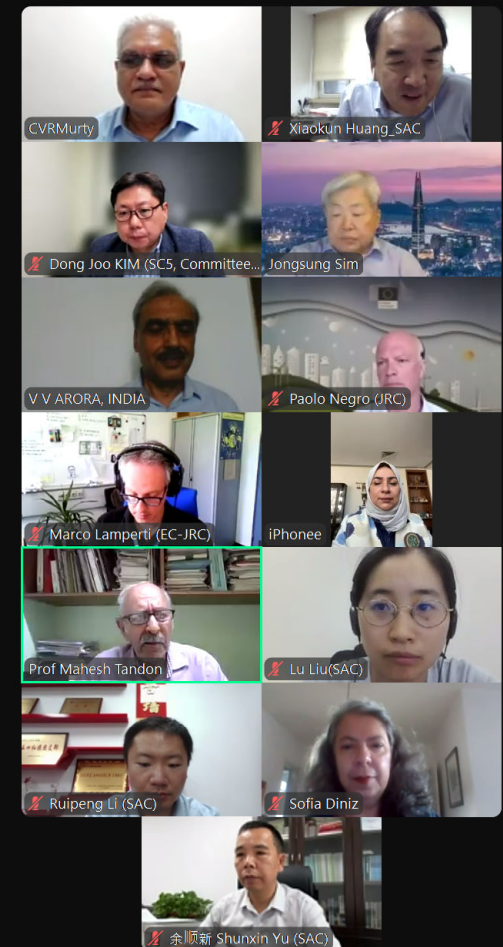
※ 2024: P-member(13), O-member(24)

### P-memberships (13)

Australia (SA), Brazil (ABNT), China (SAC), India (BIS), Japan (JISC), Korea (KATS), Kuwait (KOWSMD), Russian Federation (GOST R), Sudan (SSMO), Türkiye (TSE), Uganda (UNBS), United Kingdom (BSI), Uruguay (UNIT)

### O-memberships (24)

Algeria (IANOR), Argentina (IRAM), Bahrain (BTMD), Belarus (BELST), Belgium (NBN), Bulgaria (BDS), Colombia (ICONTEC), Egypt (EOS), France (AFNOR), Hungary (MSZT), Islamic Rep. of Iran (INSO), Israel (SII), Namibia (NSI), Netherlands (NEN), Pakistan (PSQCA), Romania (ASRO), Serbia (ISS), Singapore (SSC), South Africa (SABS), Spain (UNE), Sweden (SIS), Thailand (TISI), Ukraine (SE UkrNDNC), United Arab Emirates (MoIAT-STR)



## 2. Follow up to 2024 zoom meeting, July 5, 2024.

Number	Resolution	Action
ISO/TC71/SC5-2024-01	ISO/TC71/SC5 decides to create a NP voting for the PWI 22556.2 "Simplified Performance-Based Wind Design of Concrete Buildings," proposed by Professor Thomas KANG, Seoul National University, Seoul, Korea.	<b>CIB for ISO/PWI 22446.2 is opened</b> now between 2024-09-08 and 2024-12-01.
ISO/TC71/SC5-2024-02	ISO/TC71/SC5 agrees to launch a NP voting for "Performance matrix for strain-based simplified design of reinforced concrete beams," proposed by Professor Dong Joo KIM, Sejong University, Seoul, Korea.	CIB for ISO/PWI 24949 was closed. <b>6 members approved the NP but only 2 members assigned experts</b> for the project. Thus, a new CIB for nominating experts is opened now between 2024-10-28 and 2024-11-24.
ISO/TC71/SC5-2024-03	ISO/TC71/SC5 agrees to launch a NP voting for the "Simplified design standard on concrete arch bridges," proposed by Professor Baochun CHEN, Fujian University of Technology, Fuzhou, China.	The NWIP is registered as ISO/PWI 24951 "Simplified design of concrete arch bridges".
ISO/TC71/SC5-2024-04	ISO/TC71/SC5 decides to revise ISO 18407:2018 "Simplified design of prestressed concrete tanks for potable water" and to assign Prof. Hiroshi YOKOTA as a project leader under WG 6. <b>In addition to Japan and China, India and Korea volunteered to join this project and nominate experts.</b>	It is registered as ISO/CD 18407 since 2024-07-16.

## 2. Follow up to 2024 zoom meeting, July 5, 2024.

Number	Resolution	Action
ISO/TC71/SC5-2024-05	ISO/TC71/SC5 decides to revise ISO 28841:2013 “Guidelines for simplified seismic assessment and rehabilitation of concrete buildings” and to assign Dr. Jiang QI as the project leader under WG1. ISO/TC71/SC5 decides to reactivate WG1 with Prof. Bin ZHAO as the convenor.	The project is registered as ISO/AWI 28841 (20.00).
ISO/TC71/SC5-2024-06	ISO/TC71/SC5 agrees to proceed with the NP "Simplified Design of Segmental Precast Concrete Box Girder Bridges", Stage 00.00, proposed by Dr. Ruipeng LI, CCCC Second Highway Consultants Co., Ltd., China Communications Construction, China.	Under discussion  (ISO 21725-2:2021 Simplified design of prestressed concrete bridges — Part 2: Box-girder bridges)
ISO/TC71/SC5-2024-07	ISO/TC71/SC5 will meet in conjunction with the 29th plenary meeting of ISO/TC71, 19-22 November 2024, Bangkok, Thailand.	

### **3. SC 5 Hybrid meeting on November 20, 2024**

# 3.1 SC5 Hybrid meeting on November 20, 2024

A total of 26 delegates representing 8 countries (7 P-members, 1 O-member) attended the meeting. **Quorum was approved.**

※ 2024: P-member(14), O-member(23)

## P-memberships (14)

Australia (SA), Bangladesh (BSTI), Brazil (ABNT), China (SAC), India (BIS), Japan (JISC), Korea (KATS), Kuwait (KOWSMD), Russian Federation (GOST R), Sudan (SSMO), Türkiye (TSE), Uganda (UNBS), United Kingdom (BSI), Uruguay (UNIT)

## O-memberships (23)

Algeria (IANOR), Argentina (IRAM), Bahrain (BTMD), Belarus (BELST), Belgium (NBN), Bulgaria (BDS), Colombia (ICONTEC), Egypt (EOS), France (AFNOR), Hungary (MSZT), Islamic Rep. of Iran (INSO), Israel (SII), Namibia (NSI), Netherlands (NEN), Pakistan (PSQCA), Romania (ASRO), Serbia (ISS), Singapore (SSC), South Africa (SABS), Spain (UNE), Thailand (TISI), Ukraine (SE UkrNDNC), United Arab Emirates (MoIAT-STR)

The screenshot shows a Zoom meeting grid with 14 participants. The participants are arranged in a grid with names and roles visible. The participants are:

- Dong Joo KIM (SC5, Comm...)
- Tae Uk KIM (KA...)
- Deuckhang (DK) Lee, C...
- Jongsung Sim
- Ruipeng Li
- JITENDRA KUMAR CHA...
- MAHESH TANDON HO...
- Hiroshi Yokota (...)
- Yu Shunxin - SAC
- Baochun CHEN
- Cong LI
- Rupen GOSWA...
- Divya BIS INDIA
- Lu Liu(SAC)
- Jiang Qi
- Rahab AlBehbe...
- Fatimah Khajah...

## 3.2 Review on the ongoing projects

Project	Title	Stage
ISO / NP 22556.3	Simplified performance based wind design (PBWD) for concrete buildings	10.20

- Under CIB voting

# 3.2 Review on the ongoing projects

Project	Title	Stage
<b>ISO / NP 24949</b>	<b>Performance matrix for strain-based simplified design of reinforced concrete beams</b>	10.60

Member responses - Votes by members																	
Country (Member body)	Status*	1a. Agree to add to work programme						Market relevance	1b. Stakeholders consultation		2. Relevant documents		3. Comments		4. Participation		
		Yes			No		Abs*		Yes	No	Yes	No	Yes	No	Yes	No	
		20.00	30.00	40.00	PWI: Yes	PWI: No	NC										Exp
Australia (SA)	P						X		X		X		X			X	
Bangladesh (BSTI)	P	X							X		X		X			X	
Brazil (ABNT)																X	
China (SAC)																	
India (BIS)																X	
Japan (JISC)																	
Korea, Republic of																	
Kuwait (KOWSMD)																X	
Russian Federation (GOST R)	P						X		X		X		X			X	
Sudan (SSMO)	P	X							X		X		X			X	
Turkey (TSE)	P						X		X		X		X			X	
Uganda (UNBS)	P	X								X	X		X			X	
United Kingdom (BSI)	P						X			X	X		X			X	
Uruguay (UNIT)	P						X		X		X		X			X	
Sub-Total Question 1a		<b>6</b>	0	0	1	0	0	7									
<b>Totals</b>		<b>6</b>			<b>1</b>		<b>7</b>	<b>1</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>13</b>	<b>1</b>	<b>13</b>	<b>3</b>	<b>11</b>	

CIB for ISO/PWI 24949 was closed. **6 members approved the NP but only 2 members assigned experts** for the project. Thus, a new CIB for nominating experts is opened now between 2024-10-28 and 2024-11-24.

\* Status: P for P-Member, O for O-Member and S for Secretariat

\* Abs: NC for lack of National Consensus, Exp for lack of Expert Input

## 3.2 Review on the ongoing projects

Project	Title	Stage
ISO / PWI 24950	Simplified seismic performance evaluation and design guideline for precast concrete building (proposed by Prof. Deuckhang LEE)	

- Under development



## 3.2 Review on the ongoing projects

Project	Title	Stage
ISO / PWI 24951	Simplified design of concrete arch buildings (proposed by Prof. Baochun CHEN)	00.00

- Under development

## 3.2 Review on the ongoing projects

Project	Title	Stage
NP	Simplified design of segmental precast concrete box girder bridges (proposed by Dr. Ruipeng LI)	

- Under discussion

ISO 21725-2:2021 Simplified design of prestressed concrete bridges — Part 2: Box-girder bridges

## 3.2 Review on the ongoing projects

Project	Title	Stage
NWIP	A simplified design method on development and lap splice lengths of deformed reinforcing bars in tension (proposed by Prof. Oan Chul CHOI)	

- **Proposed**

The NWIP is still under discussion and requires further investigation.

## 3.2 Review on the ongoing projects

Project	Title	Stage
NWIP	Simplified Design of Reinforced Concrete Box Culverts (proposed by Mr. Shunxi YU)	

- **Proposed**

ISO/TC71/SC5 agrees to launch a NP voting within 6 months for the “Simplified Design of Reinforced Concrete Box Culverts,” proposed by Mr. Shunxin YU, China.

## 3.3 Systematic Review

Project	Title	Stage
ISO 18408:2019	Simplified structural design for reinforced concrete wall buildings	

- Under CIB

## 3.3 Systematic Review

Project	Title	Stage
ISO/CD 18407	Simplified design of prestressed concrete tanks for potable water (by Prof. Hiroshi YOKOTA)	30.00

- Under revision

ISO/TC71/SC5 decides to start CD consultation by the end of this year for ISO CD 18407.

## 3.4 Resolutions of November 20, 2024 SC5 meeting

<b>Number</b>	<b>Resolutions</b>
ISO/TC71/SC5-2024-08	ISO/TC71/SC5 agrees to launch a NP voting within 6 months for the “Simplified Design of Reinforced Concrete Box Culverts,” proposed by Mr. Shunxin YU, China.
ISO/TC71/SC5-2024-09	ISO/TC71/SC5 decides to start CD consultation by the end of this year (2024) for ISO CD 18407.
ISO/TC71/SC5-2024-10	ISO/TC71/SC5 will meet in conjunction with the 30th plenary meeting of ISO/TC71, 2025.

## **4. Resolutions of SC5 meeting in 2024**



# 4.1 Resolutions of 2024 SC5 meeting

Number	Resolution	Action
ISO/TC71/SC5-2024-01	ISO/TC71/SC5 decides to create a NP voting for the PWI 22556.2 "Simplified Performance-Based Wind Design of Concrete Buildings," proposed by Professor Thomas KANG, Seoul National University, Seoul, Korea.	<b>CIB for ISO/PWI 22446.2 is opened</b> now between 2024-09-08 and 2024-12-01.
ISO/TC71/SC5-2024-02	ISO/TC71/SC5 agrees to launch a NP voting for "Performance matrix for strain-based simplified design of reinforced concrete beams," proposed by Professor Dong Joo KIM, Sejong University, Seoul, Korea.	CIB for ISO/PWI 24949 was closed. <b>6 members approved the NP but only 2 members assigned experts</b> for the project. Thus, a new CIB for nominating experts is opened now between 2024-10-28 and 2024-11-24.
ISO/TC71/SC5-2024-03	ISO/TC71/SC5 agrees to launch a NP voting for the "Simplified design standard on concrete arch bridges," proposed by Professor Baochun CHEN, Fujian University of Technology, Fuzhou, China.	The NWIP is registered as ISO/PWI 24951 "Simplified design of concrete arch bridges".
ISO/TC71/SC5-2024-04	ISO/TC71/SC5 decides to revise ISO 18407:2018 "Simplified design of prestressed concrete tanks for potable water" and to assign Prof. Hiroshi YOKOTA as a project leader under WG 6. <b>In addition to Japan and China, India and Korea volunteered to join this project and nominate experts.</b>	It is registered as ISO/CD 18407 since 2024-07-16.

# 4.1 Resolutions of 2024 SC5 meeting

Number	Resolution	Action
ISO/TC71/SC5-2024-05	ISO/TC71/SC5 decides to revise ISO 28841:2013 “Guidelines for simplified seismic assessment and rehabilitation of concrete buildings” and to assign Dr. Jiang QI as the project leader under WG1. ISO/TC71/SC5 decides to reactivate WG1 with Prof. Bin ZHAO as the convenor.	The project is registered as ISO/AWI 28841 (20.00).
ISO/TC71/SC5-2024-06	ISO/TC71/SC5 agrees to proceed with the NP "Simplified Design of Segmental Precast Concrete Box Girder Bridges", Stage 00.00, proposed by Dr. Ruipeng LI, CCCC Second Highway Consultants Co., Ltd., China Communications Construction, China.	Under discussion  (ISO 21725-2:2021 Simplified design of prestressed concrete bridges — Part 2: Box-girder bridges)
ISO/TC71/SC5-2024-07	ISO/TC71/SC5 will meet in conjunction with the 29th plenary meeting of ISO/TC71, 19-22 November 2024, Bangkok, Thailand.	
ISO/TC71/SC5-2024-08	ISO/TC71/SC5 agrees to launch a NP voting within 6 months for the “Simplified Design of Reinforced Concrete Box Culverts,” proposed by Mr. Shunxin YU, China.	
ISO/TC71/SC5-2024-09	ISO/TC71/SC5 decides to start CD consultation by the end of this year (2024) for ISO CD 18407.	
ISO/TC71/SC5-2024-10	ISO/TC71/SC5 will meet in conjunction with the 30th plenary meeting of ISO/TC71, 2025.	

# **5. Status of proposed performance based simplified design**

## 5.1 Status of proposed performance based simplified design

<b>Project</b>	<b>Title</b>	<b>Status</b>
ISO/TC71/SC5 PWI 22556.2	"Simplified Performance-Based Wind Design of Concrete Buildings," proposed by Professor Thomas KANG.	Under CIB voting
ISO/TC71/SC5 PWI 24949	"Performance matrix for strain-based simplified design of reinforced concrete beams," proposed by Professor Dong Joo KIM.	Require more number of experts
ISO/TC71/SC5 PWI 24950	"Simplified seismic performance evaluation and design guideline for precast concrete building," proposed by Prof. Deuckhang LEE.	Under development



***THANK YOU !***

## ISO/TC 71/SC 6

Non-traditional reinforcing materials for concrete structures

# ISO/TC71/SC6

## Non-traditional reinforcing materials for concrete structures

### SECRETARIAT: JISC

Committee Manager: Dr. Jian-Guo Dai

Chairperson: Dr. Toshiyuki Kanakubo

#### **P-Members (12)**

Australia	Bangladesh
China	Germany
India	Japan
Korea	Russia
Saudi Arabia	Sudan
Switzerland	UK

#### **O-Members (17)**

Bahrain	Belarus	Belgium
Brazil	Colombia	Egypt
Iran	Israel	Netherlands
Pakistan	Philippines	Poland
Romania	Serbia	Singapore
Spain	UAE	

# ISO/TC71/SC6 18th meeting 21/11/2024

## Non-traditional reinforcing materials for concrete structures

2024 Bangkok meeting  
21<sup>st</sup> November, 2024

### P-Members (38)

Australia  
China(23)  
India(2)  
Korea(1)  
Saudi Arabia(1)  
Switzerland(1)  
Bangladesh(1)  
Germany  
Japan(8)  
Russia  
Sudan  
UK(1)

### O-Members (2)

Bahrain  
Brazil(2)  
Iran  
Pakistan  
Romania  
Spain  
Belarus  
Colombia  
Israel  
Philippines  
Serbia  
UAE  
Belgium  
Egypt  
Netherlands  
Poland  
Singapore

(Face-to-face: 28, Virtual: 12)



# ISO Standards under the responsibility of SC6

as of 2024-11-15

## Fibre-reinforced polymer (FRP) materials for concrete structures

Target	Test method <sup>WG6</sup>	Specification <sup>WG6</sup> Classification	Design guideline
Bar	CD 10406-1	WD 13197	ISO 14484
Grid	CD 10406-4		
Sheet	CD 10406-2	CD 18319-1 PWI 18319-3	
Strip (CF)	ISO 10406-3	ISO 18319-2	

## Fibre-reinforced cementitious composite (FRCC)

Target	Discrete fibre <sup>WG5</sup>		Test of FRCC <sup>WG2</sup>		Fresh / Mixture
	Test	Spec.	Tension	Bending	
Strain-Hardening	ISO 23523 [Polymer]	CD 13182 [Polymer]	WD 13180-1	ISO 19044 [3PL-notched]	-
Deflection-Hardening			-	ISO 21022 [Circular plate]	
FRC (Steel)			(TC17/SC17)	-	

## WGs in SC6

**SC6/WG2:** Testing methods for fibre-reinforced cementitious composites

Convenor, Undecided (Dr. Dong Joo Kim nominated)

**SC6/WG5:** Discrete polymer fibre for fibre-reinforced cementitious composites

Convenor, Prof. Yusuke Kurihashi (until end of 2024)

**SC6/WG6:** FRP material properties

Convenor, Prof. Zhishen Wu (until end of 2025)

Meetings of WG5 and WG6 were held on 30<sup>th</sup> August 2024 in Nanjing, China.

# ISO Standards under the responsibility of SC6

After SC6 meeting  
2024-11-21

## Fibre-reinforced polymer (FRP) materials for concrete structures

Target	Test method <sup>WG6</sup>	Specification <sup>WG6</sup> Classification	Design guideline
Bar	CD 10406-1→DIS	WD 13197→CD	ISO 14484
Grid	CD 10406-4→DIS		
Sheet	CD 10406-2→DIS	CD 18319-1→DIS PWI 18319-3	
Strip (CF)	ISO 10406-3	ISO 18319-2	

## Fibre-reinforced cementitious composite (FRCC)

Target	Discrete fibre <sup>WG5</sup>		Test of FRCC <sup>WG2</sup>		Fresh / Mixture
	Test	Spec.	Tension	Bending	
Strain-Hardening	ISO 23523 [Polymer]	CD 13182 →DIS [Polymer] PWI [Inorganic]	WD 13180-1	ISO 19044 [3PL-notched] ISO 21022 SR→Revise [Circular plate]	-
Deflection-Hardening				-	
FRC (Steel)	(TC17/SC17)			ISO 21914 [4PL]	ISO 22873

# Resolution of the 18<sup>th</sup> SC6 meeting

## **Resolution 1:**

TC71/SC6 decides to appoint Prof Dong Joo KIM, as WG2 Convenor, for a term of 3 years.

## **Resolution 2:**

TC71/SC6 agrees to extend the term of Prof Yusuke KURIHASHI, as the convenor of WG5, for additional 3 years until December 31st 2027.

## **Resolution 3:**

TC71/SC6 decides to appoint Prof Zhishen WU, as the Project Leader of ISO 10406-1 Fibre-reinforced polymer (FRP) reinforcement of concrete— Test methods — Part 1: FRP bars, replacing the current Project Leader Prof Jian-Guo DAI.

## **Resolution 4:**

TC71/SC6 decides to appoint Prof Xin WANG, as the Project Leader of ISO 10406-4 Fibre-reinforced polymer (FRP) reinforcement of concrete — Test methods — Part 4: FRP grids, replacing the current Project Leader Prof Zhishen WU.

# Resolution of the 18<sup>th</sup> SC6 meeting

## **Resolution 5:**

TC71/SC6 decides to proceed with “ISO CD 13182 Classification for discrete polymer fibre for fibre-reinforced cementitious composites” for DIS submission after necessary revisions.

## **Resolution 6:**

TC71/SC6 decides to proceed with “ISO CD 10406-1 Fibre-reinforced polymer (FRP) reinforcement of concrete — Test methods — Part 1: FRP bars” for DIS Submission after necessary revisions.

## **Resolution 7:**

TC71/SC6 decides to proceed with “ISO CD 10406-2 Fibre-reinforced polymer (FRP) reinforcement of concrete — Test methods — Part 2: FRP sheets” for DIS Submission after necessary revisions.

## **Resolution 8:**

TC71/SC6 decides to proceed with “ISO CD 10406-4 Fibre-reinforced polymer (FRP) reinforcement of concrete — Test methods — Part 4: FRP grids” for DIS Submission after necessary revisions.

# Resolution of the 18<sup>th</sup> SC6 meeting

## **Resolution 9:**

TC71/SC6 decides to proceed with “ISO CD 18319-1 Fibre-reinforced polymer (FRP) reinforcement for concrete structures — Specifications of FRP sheets” for DIS Submission after necessary revisions.

## **Resolution 10:**

TC71/SC6 decides to proceed with “ISO AWI 13197 Fibre-reinforced polymer (FRP) reinforcement for concrete structures — Specifications of FRP bars and grids” for CD consultation after WG consultation.

## **Resolution 11:**

TC71/SC6 agrees to develop “Specification of inorganic (basalt) fibre for fibre-reinforced cementitious composites” as a PWI, with Dr Zuqi WANG (SAC) as the project leader, under WG5.

# Resolution of the 18<sup>th</sup> SC6 meeting

## **Resolution 12:**

TC 71/SC 6, considering the systematic voting results, decides to revise ISO 21022: 2018 Test method for fibre-reinforced cementitious composites – Load deflection curve using circular plates:

- Development track (36 months)
- Project leader: Prof. Zi Goangseup
- TC, SC, WG in charge: WG2 “Testing methods for fibre-reinforced cementitious composites”
- the current scope is confirmed
- the project is starting at stage: (20.20)

Project plan (target dates):

- Circulation of first WD (20.20) (if any): April 2025
- Circulation of CD (30.20) (if any): April 2026
- Submission of DIS (40.00): October 2026
- Publication: October 2027

**Goals 8,9, and 11** of the UN Sustainable Development Goals (SDGs) will be supported. P-Members are invited to appoint experts to contribute to the project development.

# Resolution of the 18<sup>th</sup> SC6 meeting

## **Resolution 13:**

ISO/TC71/SC6 expressed sincere thanks to all the members for attending the meeting.

## **Resolution 14:**

ISO/TC71/SC6 will meet in conjunction with the 30<sup>th</sup> Plenary Meeting of ISO/TC71.





*Thank You!*



ISO/TC 71/SC 7

Maintenance and repair of concrete structures



# ISO/TC 71/SC 7 Report

29<sup>th</sup> Plenary Meeting @ hybrid  
November 22, 2024

18<sup>th</sup> SC7 Meeting August 30, 2024

19<sup>th</sup> SC7 Meeting November 20, 2024

Manabu KANEMATSU, Chair (JISC)

Soobong SHIN, Committee Manager (KATS)

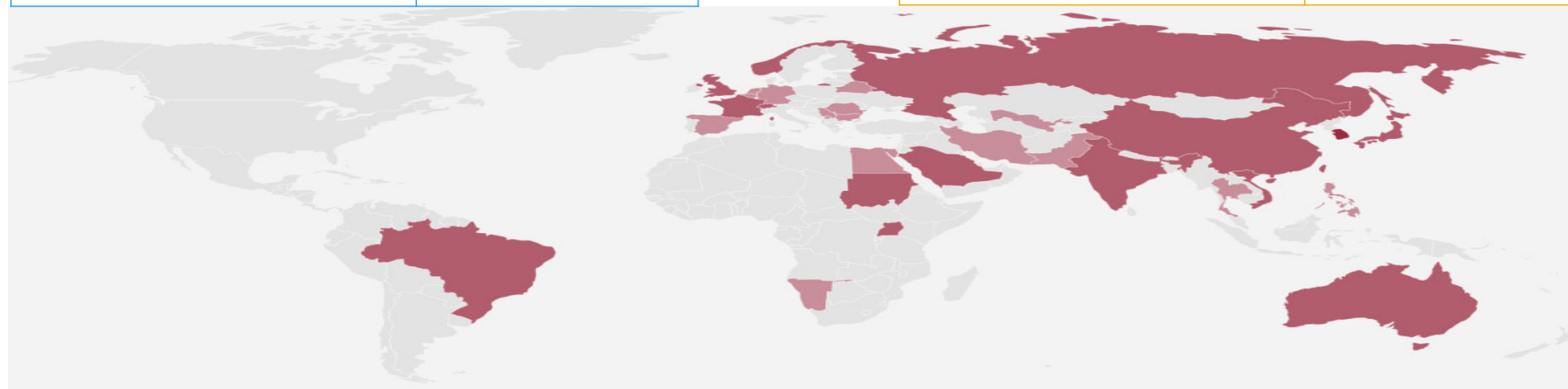
# Current Member Status

## P – Members (14→16)

Country	Organization
Australia	SA
<b>Bangladesh</b>	<b>BSTI</b>
Brazil	ABNT
China	SAC
France	AFNOR
India	BIS
Japan	JISC
Korea, Republic of	KATS
Norway	SN
Russian Federation	GOST R
Saudi Arabia	SASO
<b>Sudan</b>	<b>SSMO</b>
Switzerland	SNV
Uganda	UNBS
United Kingdom	BSI
Viet Nam	STMEQ

## O – Members (17→17)

Country	Organization
Belarus	BELST
Belgium	NBN
Bulgaria	BDS
Egypt	EOS
Germany	DIN
Hong Kong	ITCHKSAR
Iran, Islamic republic of	INSO
Namibia	NSI
Netherlands	NEN
Pakistan	PSQCA
Philippines	BPS
Romania	ASRO
Serbia	ISS
Singapore	SSC
Spain	UNE
Thailand	TISI
<b>Uzbekistan</b>	<b>O'ZTTSA</b>



# List of WGs in SC7



This committee contributes with 26 standards to the following [Sustainable Development Goals](#):

4 8 9 11 15

16

Published ISO standards \*

2

ISO standards under development \*

16

Participating members

17

Observing members

\* number includes updates

Structure

Liaisons

Meetings

Reference ↑	Title	Type
ISO/TC 71/SC 7/AHG 8 ⓘ	Concrete structures damaged by fire	Working group
ISO/TC 71/SC 7/WG 6 ⓘ	Assessment, prevention, and repair for steel corrosion in reinforced concrete structures	Working group
ISO/TC 71/SC 7/WG 7 ⓘ	Surface protection systems for underground concrete structures	Working group

ISO/TC 71/SC 7 - Secretariat  
KATS [Korea, Republic of]




# Projects under Development

## Standards by **ISO/TC 71/SC 7**

### Maintenance and repair of concrete structures

Filter :   Published   Under development   Withdrawn   Deleted

**Standard and/or project under the direct responsibility of ISO/TC 71/SC 7 Secretariat** (2) 

**ISO/CD 18726**

Assessment, prevention, and repair for steel corrosion in reinforced concrete structures

**ISO/AWI TS 18734**

Guideline for Elastomeric Barriers, Waterproofing, and Protection of Underground Concrete Structures

# Current Liaisons

Structure

Liaisons

Meetings

## Liaison Committees to ISO/TC 71/SC 7

The committees below can access the documents of ISO/TC 71/SC 7:

Reference ↑	Title
<a href="#">ISO/TC 71/SC 1</a>	Test methods for concrete
<a href="#">ISO/TC 71/SC 5</a>	Simplified design standard for concrete structures
<a href="#">ISO/TC 221</a>	Geosynthetics

## Liaison Committees from ISO/TC 71/SC 7

ISO/TC 71/SC 7 can access the documents of the committees below:

Reference ↑	Title
<a href="#">ISO/TC 35/SC 15</a>	Protective coatings: concrete surface preparation and coating application
<a href="#">ISO/TC 71/SC 1</a>	Test methods for concrete
<a href="#">ISO/TC 71/SC 5</a>	Simplified design standard for concrete structures
<a href="#">ISO/TC 156</a>	Corrosion of metals and alloys

## Attendees, 18<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid), **Tashkent, Uzbekistan**, 30 August 2024

Twenty-three (23) delegates representing six (6) member bodies: Six (6) P-member bodies of China (8), India (4), Japan (5), Korea, Republic of (4), Switzerland (1), and Uganda (1). In addition, one delegate from ISO (1).

## Attendees, 19<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid), **Bangkok-Thailand** 20 November 2024

Twenty-nine (29) delegates representing nine (9) member bodies: Eight (8) P-member bodies of Bangladesh (1), Brazil (2), China (9), India (3), Japan (7), Korea, Republic of (5), Switzerland (1), and one (1) O-member body of Iran, Islamic Republic of (1). In addition, one delegate from ISO (1).



# WG 1, WG2, WG3

Resolution 1, Hybrid, 30 August 2024

18<sup>th</sup> ISO/TC71/SC7 meeting @Tashkent, Uzbekistan

1.	TC 71/SC 7 disbands WG 1 ( <i>General principles for maintenance and repair</i> ), WG 2 ( <i>Condition assessment, and design &amp; execution of repairs</i> ), and WG 3 ( <i>Leakage due to cracks</i> ). TC 71/SC 7 appreciates their efforts on the successful publication of the documents.
----	---

- |      |                         |  |
|------|-------------------------|--|
| WG1: | ISO 16311-1:2024        | Maintenance and repair of concrete structures<br>— Part 1: General principles  |
| WG2: | ISO 16311-2 ~ 4 :2024   | Maintenance and repair of concrete structures<br>— Part 2: Assessment of existing concrete structures<br>— Part 3: Design of repairs<br>— Part 4: Execution of repairs   |
| WG3: | ISO/TS 16774-1,4,5:2024 | Test methods for repair materials for water-leakage cracks in underground concrete structures<br>— Part 1: Test method for thermal stability<br>— Part 5: Test method for watertightness<br>— Part 6: Test method for response to the substrate movement |

# WG 6 *“Assessment, prevention, and repair for steel corrosion in reinforced concrete structures”.*

**Resolution 2, 18<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
Tashkent, Uzbekistan, 30 August 2024**

<b>Resolution 2</b>	TC 71/SC 7 accepts WG 6 report by Prof. Ann regarding ISO/WD 18726 titled, <i>“Assessment, prevention, and repair for steel corrosion in reinforced concrete structures”.</i>
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**Status, 19<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
Bangkok-Thailand 20 November 2024**

- Prof. Ki Yong Ann, the Convenor of WG 6, reviewed the comments collated from the CD consultation (ended at 30 October 2024) including 94 comments from Brazil, China, and Japan.
- Proceed to the DIS ballot.

# WG 7 *“Guideline for elastomeric barriers, waterproofing, and protection of underground concrete structures.”*

**Resolution 3, 18<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
Tashkent, Uzbekistan, 30 August 2024**

<b>Resolution 3</b>	TC 71/SC 7 accepts WG 7 report by Dr. Kim regarding ISO/AWI TS 18734 titled, <i>“Guideline for elastomeric barriers, waterproofing, and protection of underground concrete structures.”</i> and encourages to hold online WG 7 meetings before the next TC 71/SC 7 Plenary meeting to proceed the project.
---------------------	--

**Status, 19<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
Bangkok-Thailand 20 November 2024**

- Dr. Jungil Kim, the Convenor, reported the development of a WD with WG and liaison members and proposed a schedule for future progress.

# AHG 8 *“Assessment and repair of fire damaged concrete structures.”*

**Resolution 4, 18<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
Tashkent, Uzbekistan, 30 August 2024**

<b>Resolution 4</b>	TC 71/SC 7 accepts AHG 8 report by Dr. Mahdi regarding ISO/PWI 13117 titled, “Assessment and repair of fire damaged concrete structures”, and encourages to report its progress at the next TC 71/SC 7 Plenary meeting in Bangkok.
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# AHG 8 “Assessment and repair of fire damaged concrete structures.”

Resolution 1, 19<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
**Bangkok-Thailand** 20 November 2024

<b>Resolution 1</b>	TC 71/SC 7 decides to <b>disband AHG 8 and establish a new WG</b> "Assessment and repair of concrete structures damaged by fire" to develop ISO 13117, with Dr. Mahdi Raouffard as Convenor
---------------------	---

- Dr. Mahdi Raouffard, the Convenor, reported the AHG 8 activities.
- TC 71/SC 7 decided to **disband AGHG 8** and move the project from **PWI to AWI phase by NP ballot** (project period 36 months).

# Resolution 1, Hybrid, 30 August 2024

## @Uzbekistan, Hybrid

4.	TC 71/SC 7 accepts AHG 8 report by Dr. Mahdi regarding ISO/PWI 13117 titled, “ <i>Assessment and repair of fire damaged concrete structures</i> ”, and encourages to report its progress at the next TC 71/SC 7 Plenary meeting in Bangkok.
<b>STATUS</b>	

Stage i Update current stage

Stage	Version	Description	Go to draft	Target date	Limit date	Started	Status
00.00	1	Proposal for new project received				2021-11-26	Current

[Show all stages](#) ∨

# Liaisons

Resolution 2, 19<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
**Bangkok-Thailand** 20 November 2024

- |    |   |
|----|---|
| 2. | TC 71/SC 7 confirms Thierry Berset as Liaison Representative to TC35/SC 15<br><i>“Protective coatings: concrete surface preparation and coating application”</i><br>participating also in TC 35/SC 15/WG 1 <i>“Protective coatings for concrete structures”</i> . |
|----|---|

# Liaisons

## Resolution 5 - 8, 18<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid), Tashkent, Uzbekistan, 30 August 2024

5.	Having reviewed its internal liaisons, TC 71/SC 7 confirms that its internal liaisons with <i>SC 1 (Test methods for concrete)</i> and <i>SC 5 (Simplified design standard for concrete structures)</i> are still valid and necessary. Prof. Shin is confirmed as the Liaison Representative.
6.	Having reviewed its internal liaisons, TC 71/SC 7 confirms that its internal liaison with <i>TC 221 (Geosynthetics)</i> is still valid and necessary. Dr. Kim is confirmed as the Liaison Representative.
7.	Having reviewed its liaisons, TC 71/SC 7 confirms that its liaisons with <i>CEN TC 104/SC 8 (Repair and Maintenance of Concrete Structures)</i> and <i>ISO/TC 35/SC 15 (Protective Coatings: concrete surface preparation and coating applications)</i> are still valid and necessary. Mr. Berset is confirmed as the Liaison Representative.
8.	Having reviewed its internal liaisons, TC 71/SC 7 confirms that its internal liaison with <i>TC 156 (Corrosion of metals and alloys)</i> is still valid and necessary. Prof. Ann is confirmed as the Liaison Representative.



# Other business

**Resolution 9, 18<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
Tashkent, Uzbekistan, 30 August 2024**

- |           |   |
|-----------|---|
| <b>9.</b> | TC 71/SC 7 resolves that the next meeting will be held in conjunction with the TC 71 Plenary meeting. |
|-----------|---|

**Resolution 3, 19<sup>th</sup> ISO/TC71/SC7 meeting(Hybrid),  
Bangkok-Thailand 20 November 2024**

- |           |  |
|-----------|--|
| <b>3.</b> | TC 71/SC 7 resolves that the next meeting will be held in conjunction with the 30th TC 71 Plenary meeting. |
|-----------|--|



# ISO/TC 71/SC 8

Environmental management for concrete and concrete structures

# **Report of ISO/TC71/SC8**

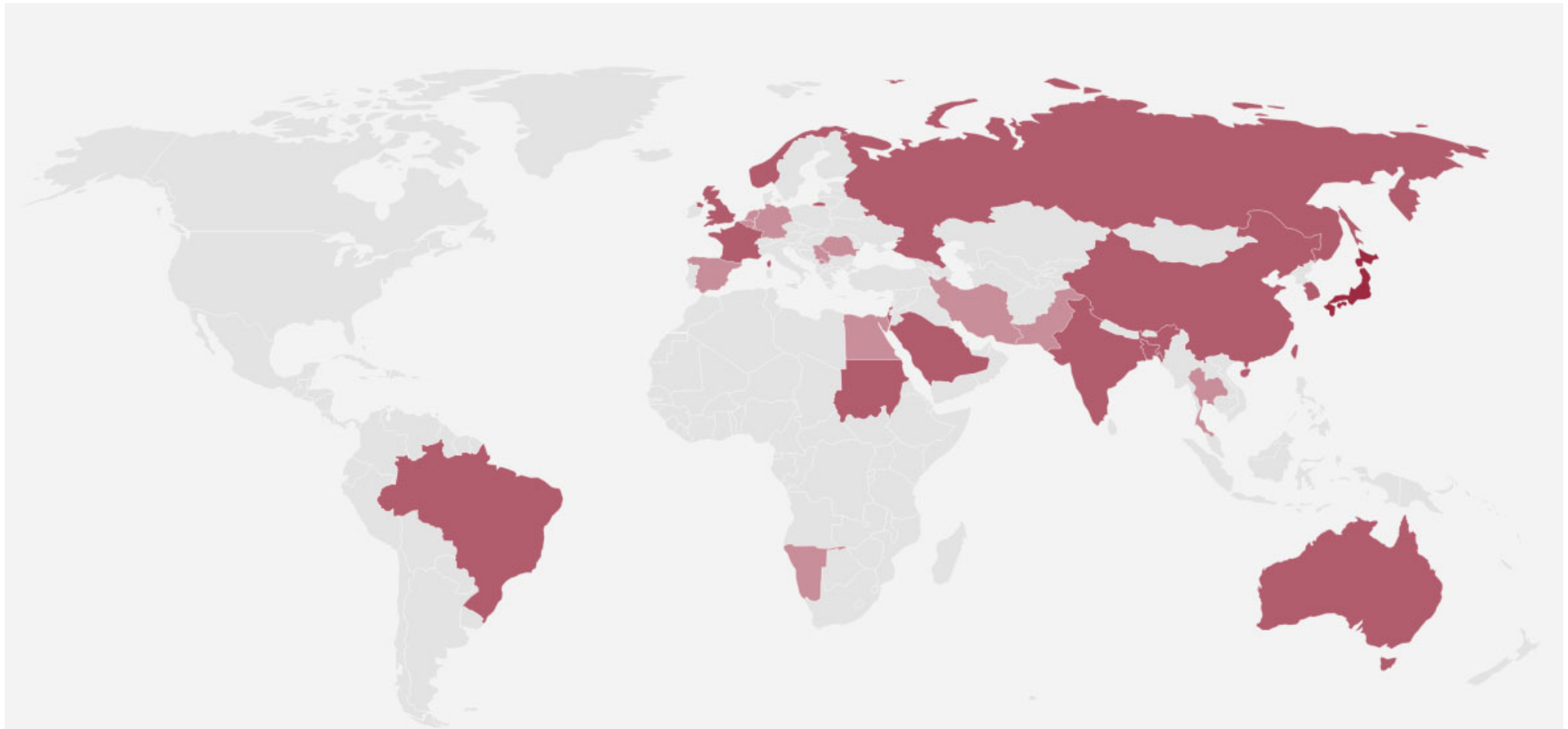
**Takafumi Noguchi (SC8 Chair)**

**Satoshi Fujimoto (SC8 Committee Manager)**

# Membership of SC8

**Participating Members [11→14]**

**Observing Members [14→13]**



This map is designed to visually demonstrate the geographic distribution of our Members. The boundaries shown do not imply an official endorsement or acceptance by ISO.

# Membership of SC8

## Participating Members [14]

Country/Territory	Acronym
Australia	<u>SA</u>
Bangladesh	<u>BSTI</u>
Brazil	<u>ABNT</u>
China	<u>SAC</u>
France	<u>AFNOR</u>
India	<u>BIS</u>
Israel	<u>SII</u>
Japan	<u>JISC</u>
Korea, Republic of	<u>KATS</u>
Norway	<u>SN</u>
Russian Federation	<u>GOST R</u>
Sudan	<u>SSMO</u>
Saudi Arabia	<u>SASO</u>
United Kingdom	<u>BSI</u>

## Observing Members [13]

Country/Territory	Acronym
Belgium	<u>NBN</u>
Egypt	<u>EOS</u>
Germany	<u>DIN</u>
Iran, Islamic Republic of	<u>INSO</u>
Luxembourg	<u>ILNAS</u>
Namibia	<u>NSI</u>
Netherlands	<u>NEN</u>
Pakistan	<u>PSQCA</u>
Romania	<u>ASRO</u>
<del>Russian Federation</del>	<del><u>GOST R</u></del>
Serbia	<u>ISS</u>
Singapore	<u>SSC</u>
Spain	<u>UNE</u>
<del>Sudan</del>	<del><u>SSMO</u></del>
Thailand	<u>TISI</u>

# Voting results in 2024

## [ISO/DIS 13315-2](#)

Environmental management for concrete and concrete structures

— Part 2: System boundary and inventory data

- DIS ballot was approved on 2024-02-07 (**SC8/N214**)
- FDIS ballot is ongoing.

## [ISO/CD 13315-5](#)

Environmental management for concrete and concrete structures

— Part 5: Execution of concrete structures

- CD consultation was closed on 2024-01-11. (**SC8/N215**)

# Voting results in 2024

## [ISO/SR 13315-8](#)

Environmental management for concrete and concrete structures  
— Part 8: Environmental labels and declarations

- SR ballot was closed on 2024-01-15.
- CIB ballot for SC8 decision was closed on 2024-07-18 (**SC8/N223**)
- SC8/WG4 is re-activated and revision project was launched.
- SC8/WG4 meeting was held on 2024-10-6.

## [ISO/SR 13315-6](#)

Environmental management for concrete and concrete structures  
— Part 6: Use of concrete structures

- SC8 recommendation ballot was closed on 2024-06-11, which recommends to revise the document.
- SR ballot is ongoing.



# Voting results in 2024

## [ISO/NP 13315-7](#)

Environmental management for concrete and concrete structures  
— Part 7: End of life phase of concrete and concrete structures

- NP ballot was approved on 2024-04-09.
- SC8/WG8 meeting was held on 2024-8-23.

# Voting results in 2024

## [ISO/NP 21282-1](#)

Determination of carbon dioxide sequestered in concrete and concrete constituents  
— Part 1: General principles

## [ISO/NP 21282-2](#)

Determination of carbon dioxide sequestered in concrete and concrete constituents  
— Part 2: Acid decomposition and titration analysis

## [ISO/NP 21282-3](#)

Determination of carbon dioxide sequestered in concrete and concrete constituents  
— Part 3: Thermal gravimetric analysis

➤ NP ballots are ongoing.

# Resolution 1

TC 71/SC 8 agrees to launch CD consultation ballot of ISO/WD 13315-7 “Environmental management for concrete and concrete structures — Part 7: End of life phase of concrete and concrete structures”, after revising the document according to the comments received during the WG meeting and Working Draft Study.

# Resolution 2

TC 71/SC 8 agrees to launch DIS ballot for ISO 13315-5 “Environmental management for concrete and concrete structures — Part 5: Execution of concrete structures”.

# THANK YOU FOR WONDERFUL HOSTING!!

- Thai Industrial Standards Institute (TISI), Ministry of Industry
- Engineering Institute of Thailand (EIT) under His Majesty the King's Patronage
- Construction and Maintenance Technology Research Center (CONTEC), Sirindhorn International Institute of Technology, Thammasat University
- The Concrete Products and Aggregate Co., Ltd. (CPAC)
- Ritta Co., Ltd.
- M Concrete Co., Ltd.
- Ladkrabang Bored Pile Co., Ltd.
- Pro Phoenix Co., Ltd.
- Posten Engineering Co., Ltd.
- Thai Wire Products PCL.

ISO/TC 71/SC 9

Steel-concrete composite and hybrid structures

# **Report of ISO/TC 71/SC 9 Steel-concrete composite and hybrid structures**

**Chair: Prof. Lin-Hai Han**

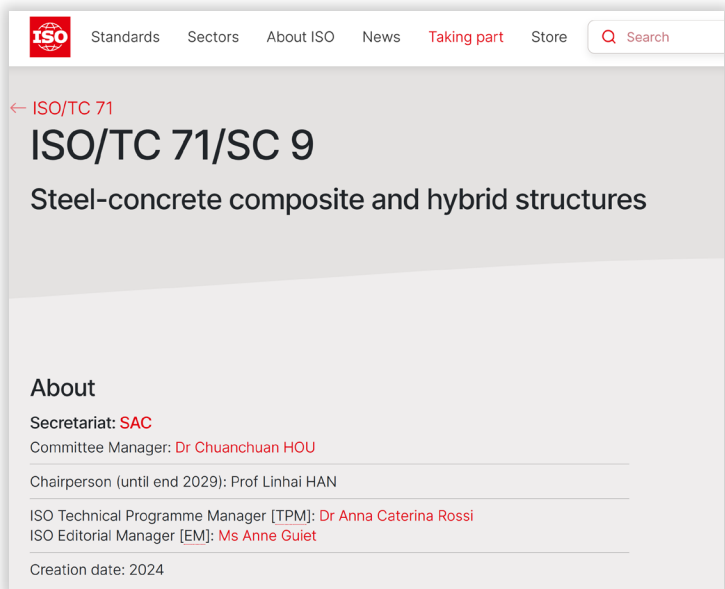
**CM: Dr. Chuanchuan Hou**

**Bangkok, Thailand**

**2024.11.22**

# 1 Establishment

- ❑ The establishment of ISO/TC 71/SC 9 Steel-concrete composite and hybrid structures was ratified by **ISO/TMB Resolution 45/2024** adopted in April 2024; the secretariat of ISO/TC 71/SC 9 was allocated to **SAC (China)**
- ❑ Prof. Lin-Hai Han was appointed as **Chair** of ISO/TC 71/SC 9 in June 2024



# 1 Establishment

- ❑ The secretariat has been established and decorated, with **display boards** about ISO, TC 71 and TC 71/SC 9 installed
- ❑ **Models** of steel-concrete composite and hybrid structures are exhibited

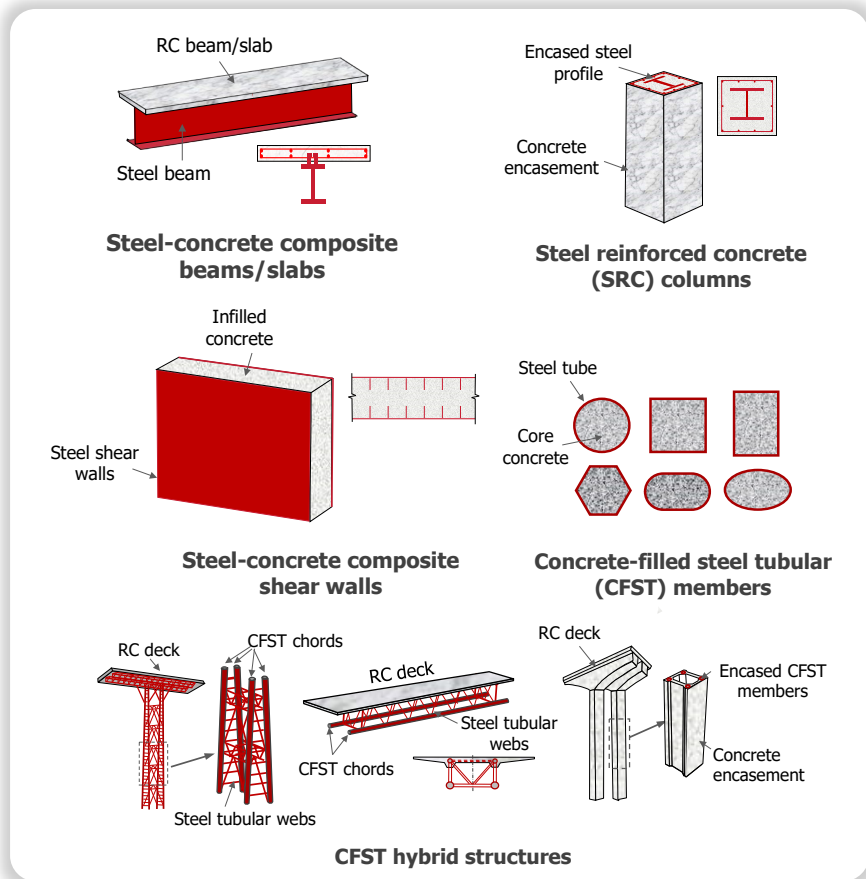




# 2 Scope

## □ Standardization in the field of **steel-concrete composite and hybrid structures** including:

- ✓ **general framework** for design, execution, maintenance, repair and recycling of steel-concrete composite and hybrid structures;
- ✓ **performance-based design** of steel-concrete composite and hybrid structures;
- ✓ **execution and acceptance** of steel-concrete composite and hybrid structures;
- ✓ **structural performance assessment and maintenance and repair** of steel-concrete composite and hybrid structures;
- ✓ **demolition and structural-member-based recycling** of steel-concrete composite and hybrid structures



## 3 Structure

- ISO/TC 71/SC 9 currently has **11 P-members and 3 O-members**

### P-members



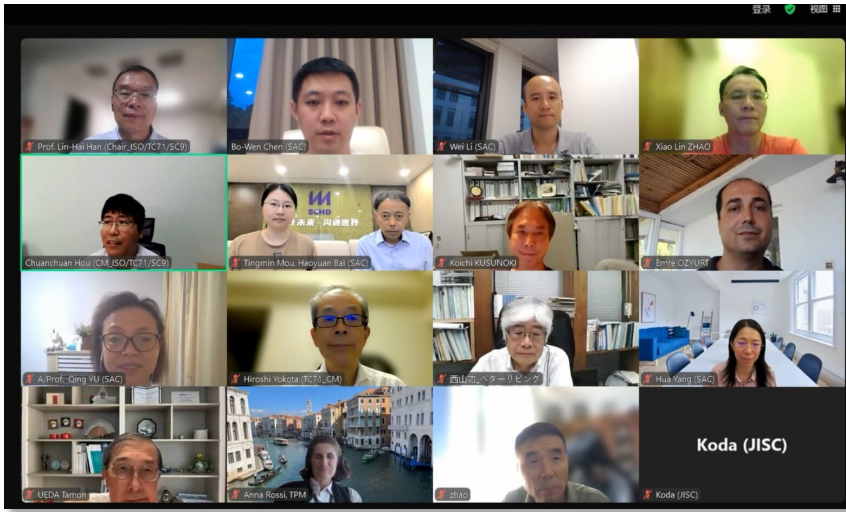
### O-members



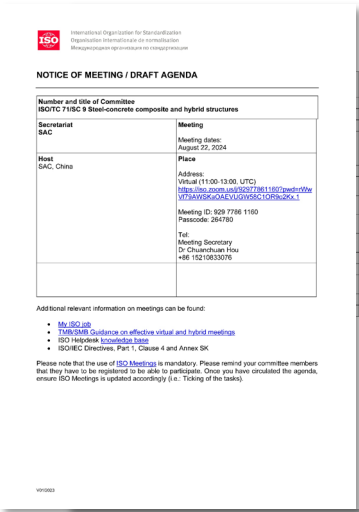
- Liaison from and to **ISO/TC 167** Steel and aluminium structures, has been established
- One WG, **ISO/TC 71/SC 9/WG 1** Design of concrete-filled steel tubular (CFST) hybrid structures, has been established (Convenor: Chuanchuan Hou)
- One AHG, **ISO/TC 71/SC 9/AHG 1** Use of recycled aggregate concrete, has been established (Convenor: Hua Yang)

# 4 Meetings

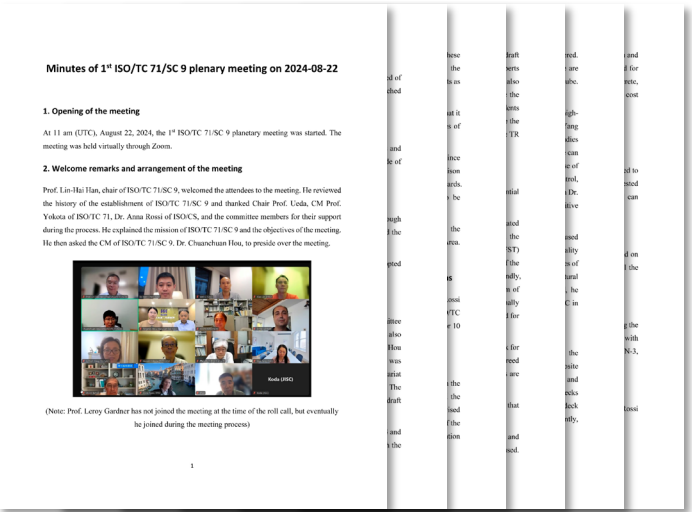
- ❑ **1<sup>st</sup> ISO/TC 71/SC 9 Plenary Meeting** was held virtually on August 22, 2024, with 18 attendees joined
- ❑ Draft strategic business plan (SBP), plan to establish liaison, proposal to develop a technical report (TR), proposals for two potential projects were discussed



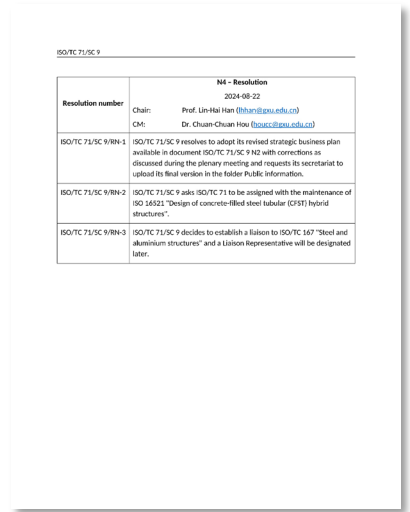
Attendees



Agenda



Minutes



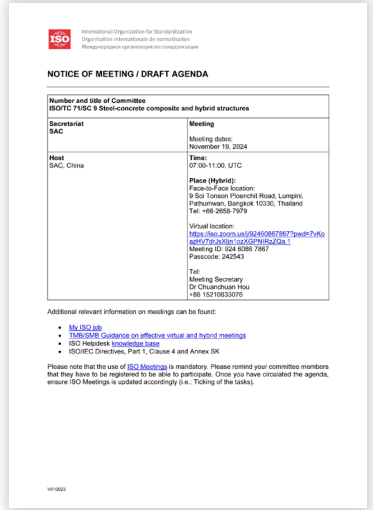
Resolutions 6

# 4 Meetings

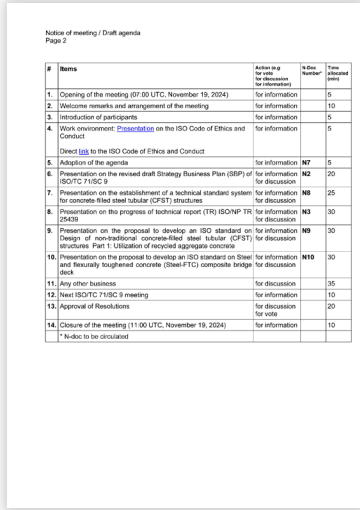
- **2<sup>nd</sup> ISO/TC 71/SC 9 Plenary Meeting** was held in hybrid form on November 19, 2024 in Bangkok, Thailand
- Revised strategic business plan (SBP), strategy for development of technical standard system for CFST structures, ISO/AWI TR 25439, proposals for two potential projects were discussed



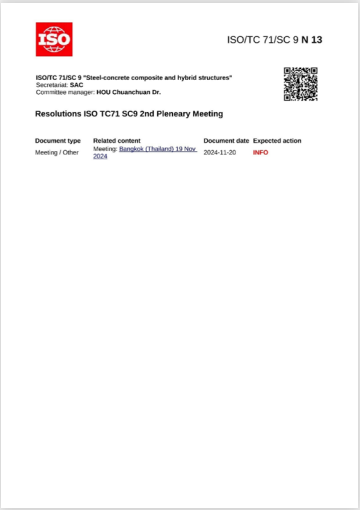
**Attendees**



**Agenda**



**Resolutions**



## 5 Resolutions

- **ISO/TC 71/SC 9/RN-1:** ISO/TC 71/SC 9 resolves to adopt its revised strategic business plan available in document ISO/TC 71/SC 9 N2 with corrections as discussed during the plenary meeting and requests its secretariat to upload its final version in the folder Public information.
- **ISO/TC 71/SC 9/RN-2:** ISO/TC 71/SC 9 asks ISO/TC 71 to be assigned with the maintenance of ISO 16521 "Design of concrete-filled steel tubular (CFST) hybrid structures".
- **ISO/TC 71/SC 9/RN-3:** ISO/TC 71/SC 9 decides to establish a liaison to ISO/TC 167 "Steel and aluminium structures" and a Liaison Representative will be designated later.

## 5 Resolutions

- **ISO/TC 71/SC 9/RN-4:** ISO/TC 71/SC 9 decides to initiate the development of a Technical Report (TR) titled “Design examples of concrete-filled steel tubular (CFST) hybrid structures in accordance with ISO 16521” and register the document as a Working Draft (WD).
- **ISO/TC 71/SC 9/RN-5:** ISO/TC 71/SC 9 decides to establish ISO/TC 71/SC 9/WG 1 “Design of concrete-filled steel tubular (CFST) hybrid structures” to develop the proposed Technical Report (TR) and to maintain ISO 16521.
- **ISO/TC 71/SC 9/RN-6:** ISO/TC 71/SC 9 decides to appoint Dr. Chuanchuan Hou as convenor of ISO/TC 71/SC 9/WG 1.

## 5 Resolutions

- **ISO/TC 71/SC 9/RN-7:** ISO/TC 71/SC 9 resolves to confirm and agree upon the further revised version of the strategic business plan.
- **ISO/TC 71/SC 9/RN-8:** ISO/TC 71/SC 9 resolves to adopt the strategy proposed by Prof. Lin-Hai Han in the document of “Technical standard system for concrete-filled steel tubular (CFST) structures” and develop ISO deliverables on CFST structures step by step accordingly.
- **ISO/TC 71/SC 9/RN-9:** ISO/TC 71/SC 9 resolves to register the proposal “Design of nontraditional concrete-filled steel tubular (CFST) structures — Part 1: Utilization of recycled aggregate concrete” as a preliminary work item (PWI) and create an ad hoc group to study the proposal until the next ISO/TC 71/SC 9 plenary meeting, and to nominate Prof. Hua Yang as the convenor.

# 6 Strategic Business Plan (SBP)

## SBP of TC 71/SC 9 lays out the business environment, benefits expected, representation and participation, objectives, structure, current projects and publications; it was finally adopted through ISO/TC 71/SC 9/RN-7

**1 Executive summary**

ISO/TC 71/SC 9, Steel-concrete composite and hybrid structures is a subcommittee of ISO/TC 71. ISO/TC 71 is the international technical committee for steel-concrete composite and hybrid structures. The strategic business plan is in alignment with the principles of ISO/TC 71 and the ISO Strategy 2020.

Steel-concrete composite and hybrid structures combine the advantages of both concrete and steel materials, while they mitigate their respective disadvantages. One of their structural advantages is that they can be used in a wide range of applications, such as bridges, tall buildings, etc. At the same time, a large number of existing steel-concrete composite and hybrid structures have entered their service life for a long period and require regular performance assessment, maintenance and repair. For some of them, repair work is difficult, high quality of some steel-concrete and hybrid structure members allows a structural the carbon footprint globally.

ISO/TC 71/SC 9 aims to advance the research, applications and management of steel-concrete composite and hybrid structures through their standardization.

**2 Business Environment of the ISO/TC 71/SC 9**

The following political, economic, technical, regulatory, legal and social dynamics describe the business environment of the ISO/TC 71/SC 9. They are periodically updated. The relevant standards development processes are considered and the content of the resulting standards.

Steel-concrete composite and hybrid structures are formed by connecting steel and concrete in the member level or combining the steel-concrete composite members in the structural level to realize the maximum efficiency and maximize the respective advantages. Representative forms of steel-concrete composite and hybrid structures include concrete-filled steel tube (CFST) structures, steel-concrete composite structures, steel reinforced concrete structures, steel-concrete composite steel tube, CFST hybrid structures, etc. about 80% of them have their unique advantages over conventional reinforced concrete or steel structures, such as high strength, high stiffness, good fire and seismic resistance. Their mechanical, technical, economic and environmental benefits have greatly advanced their application in large-scale infrastructure construction.

More recently, steel-concrete composite and hybrid structures adopting non-traditional materials have been developed and applied in engineering construction, such as with concrete steel, weathering steel, recycled aggregate concrete, steel fibre reinforced concrete, ultra-high-performance concrete, etc. Some new steel-concrete structures, such as concrete-filled steel tube (CFST) structures, have also been widely studied and adopted. The successful applications of these high-performance steel structures demonstrate their advantages and potential in new construction, which require the standardization of their concepts and design methods.

Based on the above business environment, ISO/TC 71/SC 9 aims at standardization in the area of steel-concrete composite and hybrid structures:

- general framework for design, execution, maintenance, repair, and recycling and reuse of steel-concrete composite and hybrid structures;
- performance-based design of steel-concrete composite and hybrid structures;
- evaluation and classification of steel-concrete composite and hybrid structures;
- structural performance assessment and maintenance and repair of steel-concrete composite and hybrid structures;
- standardization and structural member-based recycling and reuse of steel-concrete composite and hybrid structures.

**3 Benefits expected from the work of the ISO/TC 71/SC 9**

The benefits expected from the work ISO/TC 71/SC 9 include:

- advancement of the applications of high-performance and low-carbon steel-concrete composite and hybrid structures in developed regions of the world through the development and adoption of international standards;
- making the design and construction of steel-concrete composite and hybrid structures in different regions of the world more efficient and of higher quality by adopting international standards;
- facilitating the innovation, standardization, and applications of novel advanced forms of steel-concrete composite and hybrid structures adopting innovation and high-performance materials;
- better management and maintenance of existing steel-concrete composite and hybrid structures;
- reduction of carbon emission in construction through the recycling and reuse of steel-concrete composite and hybrid structural members;
- advancing the knowledge, exchange of steel-concrete composite and hybrid structures globally through standardization activities;
- improvement of transportation of national and international standards through means such as standardization of international standards;
- establishment of an international standards system in steel-concrete composite and hybrid structures where the developed standards are cross-referenced to normative references.

**4 Representation and participation in the ISO/TC 71/SC 9**

**4.1 Membership**

Current ISO member bodies that are P and O members of the ISO committee

**4.2 Analysis of the participation**

ISO/TC 71/SC 9 was established in 2004. As of October 2024, there are 11 P-members and 3 O-members. These members are of Asian, European, and South American countries, which include the following:

Steel-concrete composite and hybrid structures have been widely adopted in some of the members who offer ones with vast infrastructure construction demands can greatly benefit from the standardization works of ISO/TC 71/SC 9.

ISO/TC 71/SC 9 will establish liaison with ISO/TC 187 as well as other international and regional standardization organizations to involve participants in its works.

ISO/TC 71/SC 9 will continue to expand the list of P-members and O-members and to seek contributions from new member bodies for the global. For instance, it is important to have new member countries from Southeast Asia, Middle East, Central Asia, Africa, etc. participants in ISO/TC 71/SC 9.

To facilitate more engagement from member bodies, the key strategy is to identify active members of the industry, industry, government bodies, etc. of these member bodies who work in the field of steel-concrete composite and hybrid structures, and invite them to participate in the standard development process.

**5 Objectives of the ISO/TC 71/SC 9 and their achievement**

**5.1 Defined objectives of the ISO/TC 71/SC 9**

The objectives of ISO/TC 71/SC 9 are to develop standards that define the best practices for the design, execution, maintenance, repair, and recycling and reuse of steel-concrete composite and hybrid structures. Technical reports or delivery type of steel-concrete composite and hybrid structures will be established to cover general principles as well as detailed technical specifications for high-performance steel-concrete composite and hybrid structures, which are intended to be of relatively urgent global market needs, will also be prioritized in the standard development plans.

These standards will advance the applications of steel-concrete composite and hybrid structures in infrastructure construction, and will ultimately reduce the cost and carbon emission, and increase the durability of structures.

A total of around 24 proposals are expected to be successfully approved and enter the standard development process annually. From 2024-2028, a total of around 10 standards are expected to be published and more than 10 are under development.

**5.2 Identified strategies to achieve the ISO/TC 71/SC 9 defined objectives**

To achieve the defined objectives, ISO/TC 71/SC 9 identifies the following strategies:

- to draft plans for the development of complete technical standard systems for various types of steel-concrete composite and hybrid structures and their applications;
- to promote the development of general principles for steel-concrete composite and hybrid structures and to develop technical specifications and standards to meet the requirements of global market needs;
- to establish liaison with other international standardization organizations to involve participants to better advance the development process of the standards;
- to engage the industry bodies who offer technical expertise and resources to participate in the development of international standards and technical specifications, and also technical reports for globally such as steel-concrete composite and hybrid structures;
- to develop international standards and technical specifications, and also technical reports for globally such as steel-concrete composite and hybrid structures;
- to keep smooth and frequent communications with national standards bodies, stakeholders, and regional and international standardization organizations regarding the latest development in technical and technical innovations, applications, and standardizations of steel-concrete composite and hybrid structures.

**6 Factors affecting completion and implementation of the ISO/TC 71/SC 9 work programme**

Currently, the staff of its establishment, ISO/TC 71/SC 9 has 11 P-members and 3 O-members from Asia, Europe and South America. The participation of new member countries from all continents are needed to ensure the successful implementation of the ISO/TC 71/SC 9 work programme.

**7 Structure, current projects and publications of the ISO/TC 71/SC 9**

As a newly established subcommittee, ISO/TC 71/SC 9 is gathering proposals and planning to launch several projects in the near future. The projects are the development of general principles and standards for steel-concrete composite and hybrid structures that are not covered by existing standards, especially for those with steel-reinforced, economical and environmental advantages and good global market prospects.

Especially regional standardization (CEN) covers the steel-concrete composite structures through CEN/TC 350/SC 4. Eurocode 4. Change of composite steel and concrete structures. ISO/TC 71/SC 9 plans to establish liaison with CEN/TC 350/SC 4 to avoid duplication of work and cooperate on standard development through the Vienna Agreement.

International standards, national specifications, and technical reports will all be potential deliverables for ISO/TC 71/SC 9 based on the nature of the projects.

Generally, the time allocated to each project from the new work programme plan is the publication time in 6 months.

Stakeholders of ISO/TC 71/SC 9 are design and construction companies, research institutions, universities, infrastructure management organizations, engineers, researchers, owners and occupants of infrastructure, etc.

**Information on ISO online**

The link below is to the TC's page on ISO's website: <https://www.iso.org/committee/42182131>

Click on the tabs and links on this page to find the following information:

- About Standards Committee Manager: Chair, Vice of creation, Scope, etc.
- Current Members
- Standards and working groups
- Meetings
- Tools
- Work programme (published standards and standards under development)

**Reference information**

Glossary of terms and abbreviations used in ISO

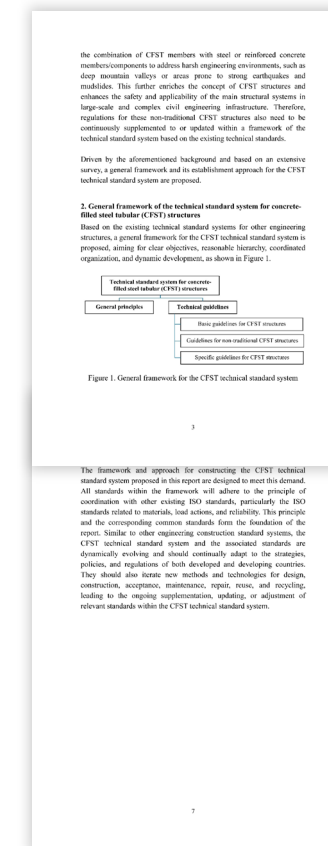
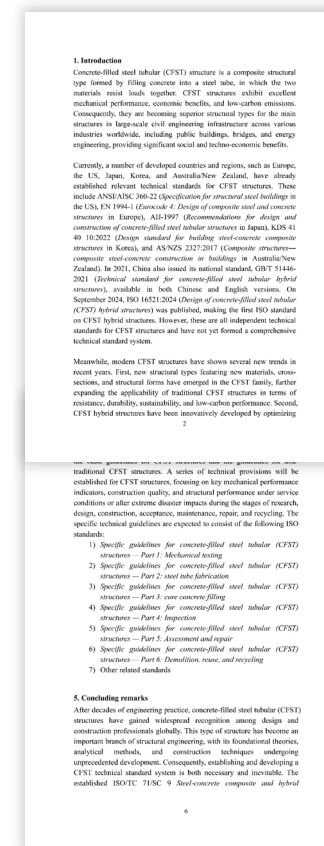
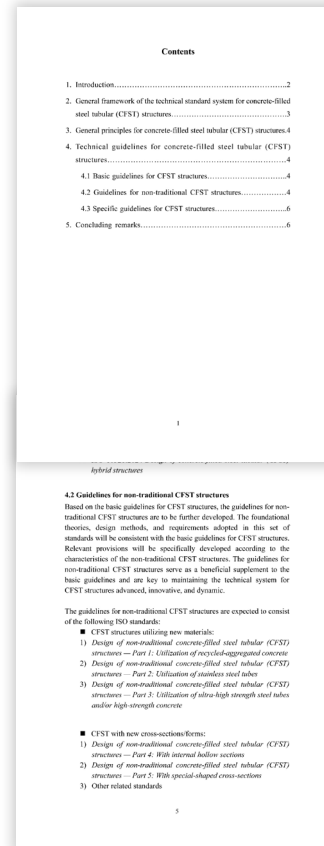
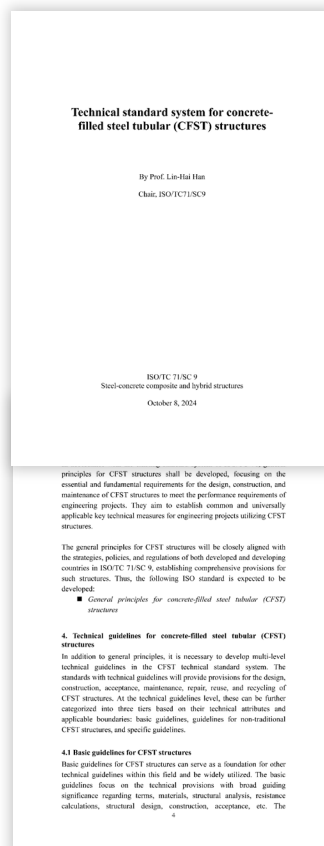
General information on the principles of ISO's technical work

Fig. 1 Representative steel-concrete composite and hybrid structures



# 6 Strategic Business Plan (SBP)

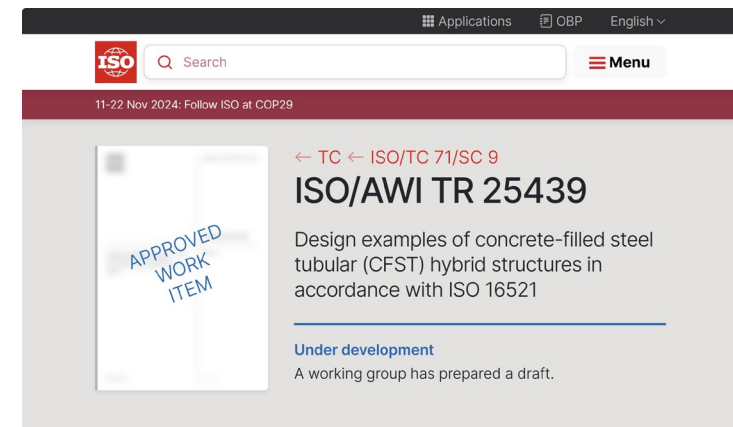
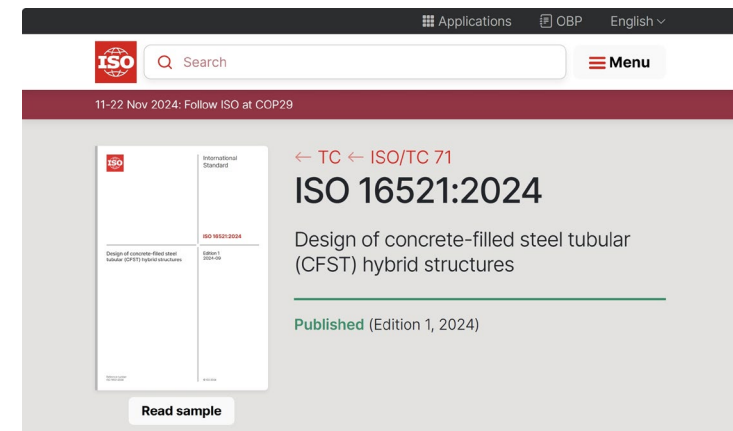
□ Strategy for the establishment of a standard system for concrete-filled steel tubular (CFST) structures, proposed by Chair, Prof. Lin-Hai Han, is also developed and adopted through ISO/TC 71/SC 9/RN-8



# 7 Work programme

## □ ISO/AWI TR 25439, Design examples of concrete-filled steel tubular (CFST) hybrid structures in accordance with ISO 16521

- ✓ A design example document has been prepared by **ISO/TC 71/WG 2** during the CD stage of project 16521
- ✓ The first draft was first discussed on **Oct. 04, 2023** during the 2<sup>nd</sup> ISO/TC 71/WG 2 meeting
- ✓ **A ballot on the development of the TR** was initiated on Sept. 18, 2024 and closed on Nov. 12, 2024
- ✓ The proposal for the development of the TR was approved and the **resolutions RN-4, RN-4 and RN-5** was adopted



# 7 Work programme

## □ ISO/AWI TR 25439, Design examples of concrete-filled steel tubular (CFST) hybrid structures in accordance with ISO 16521

Design examples of concrete-filled steel tubular (CFST) hybrid structures in accordance with ISO 16521

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### Contents

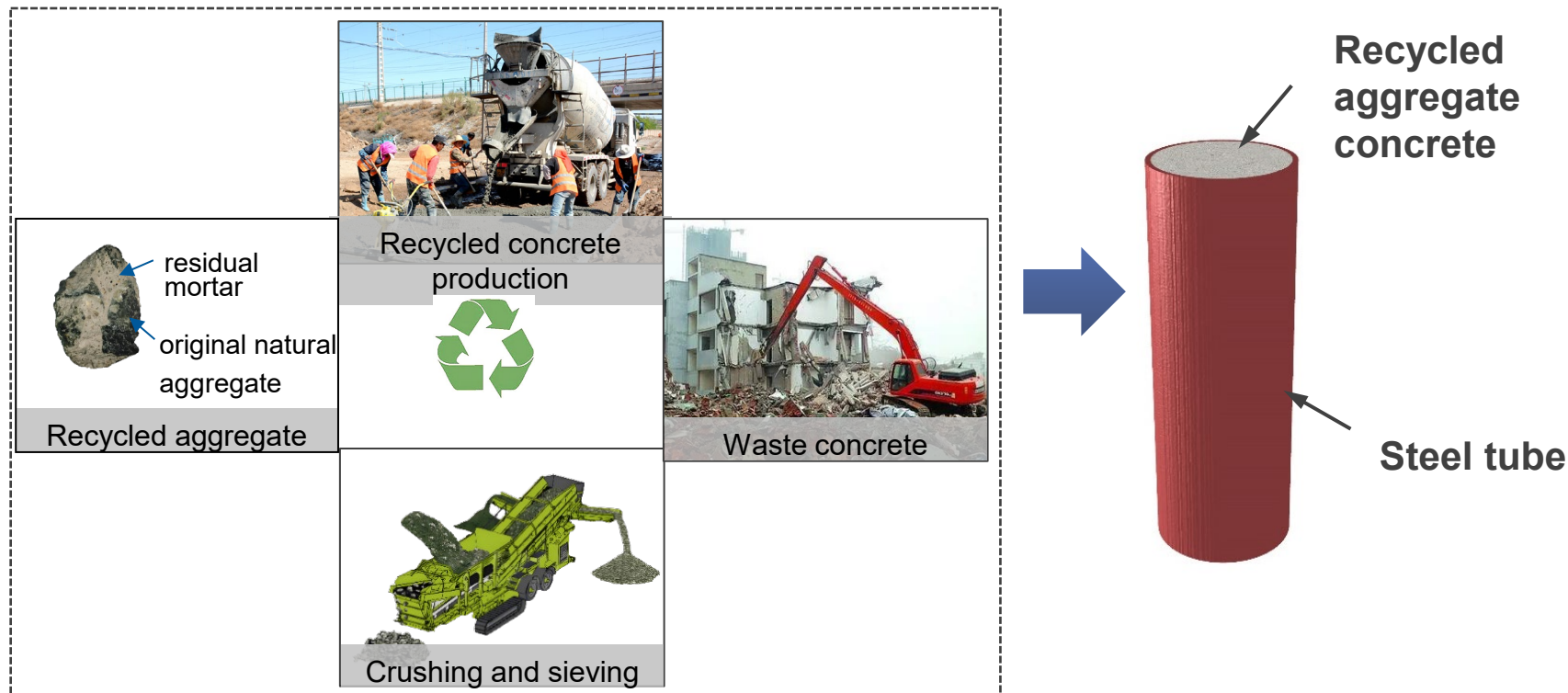
1. Design examples of trussed CFST hybrid structures
2. Design examples of concrete-encased CFST hybrid structures
3. Structural analysis example of concrete-encased CFST hybrid arch

**Annex A** Experimental verifications of design methods for concrete-filled steel tubular (CFST) hybrid structures

**Bibliography**

# 7 Work programme

## □ ISO/PWI 25632-1, Design of non-traditional concrete-filled steel tubular (CFST) structures — Part 1: Utilization of recycled aggregate concrete



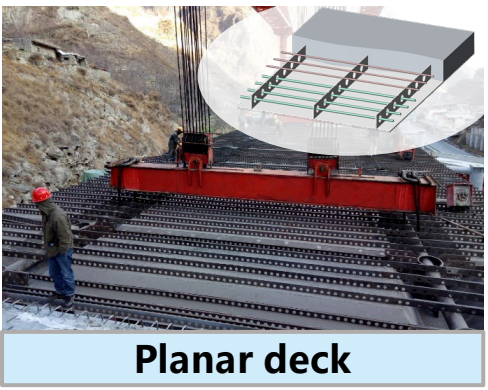
**Recycled aggregate concrete – filled steel tubes**

**ISO/TC 71/SC 9  
/AHG 1 is  
calling for  
experts to join**

**Convenor: Prof. Hua Yang  
([yanghua@hit.edu.cn](mailto:yanghua@hit.edu.cn))**

# 8 Possible project

□ **Proposal discussed:** Steel and flexurally toughened concrete (Steel-FTC) composite bridge deck



Planar deck



Corrugated deck



◆ Over 100 application projects.

Lighter weight

Higher strength

Better durability

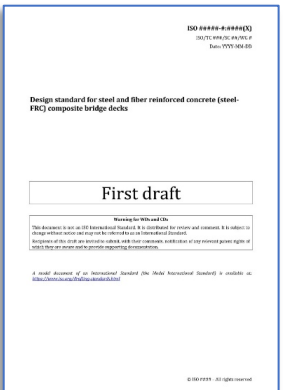
Simple construction

Excellent span-adaptability



- ◆ Applicable to various bridge types and spans.
- ◆ Particularly suitable for countries/regions with underdeveloped economy, frequent natural disasters and complex construction environment.

ICS 93.040 四川省地方标准 P 28	ICS 93.040 四川省地方标准 P 28	团体标准 CHTS 2023
钢-混凝土组合桥面板技术 Technical Specification for Steel-C Composite Bridge Deck	公路桥梁波折钢-混凝土组合 技术规范 Technical Specification for Corrugated S Composite Bridge Deck of Highway	公路桥梁钢-混凝土现浇组合桥面板 技术指南 Technical Guidelines for Steel-Concrete Composite Bridge Deck
2015-07-08 发布 四川省质量技术监督局 发	2019-09-22 发布 四川省市场监督管理局 发	2023-10-24 发布 中国公路学会 发布



Please contact the proposers if you are interested

Mr. Tingmin Mou  
([moutm@vip.sina.com](mailto:moutm@vip.sina.com))

Miss Haoyuan Bai  
([baihaoyuan@schdri.com](mailto:baihaoyuan@schdri.com))

# Acknowledges



- ❑ Prof. Ueda, Prof. Yokota, and Dr Rossi for their support of the establishment of ISO/TC 71/SC 9
- ❑ ISO/TC 71/SC 9 experts and representatives from Bangladesh, Brazil, Brunei Darussalam, China, Germany, India, Japan, Korea, Saudi Arabia, Türkiye, United Kingdom, Czech Republic, Poland, Spain
- ❑ Fellow TC 71/SCs for their help to TC 71/SC 9
- ❑ Host of the meeting

**Thank you!**

# ISO/TC 71/WG 1

Life-cycle management of concrete structures

## 9. Report from ISO/TC 71/WG 1

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1

7th ISO/TC 71/WG 1 meeting, 2024-11-21; 14:00-15:10 ICT

20 experts attended from Brazil, China, Japan, Korea, and Norway



## 9. Report from ISO/TC 71/WG 1

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2

ISO 22040, Life cycle management of concrete structures

- Published on 2021-01-29

ISO 22040-2, Life cycle management of concrete structures – Part 2:

Structural planning and design stage

- FDIS registered on 2024-01-03
- FDIS ballot ended on 2024-04-13
- Published on 2024-05-02

### ISO 22040-3, Life cycle management of concrete structures – Part 3: Execution stage

- CD consultation ended on 2024-03-31
- DIS registered on 2024-06-12
- DIS ballot ended on 2024-11-06
- 16 comments were received, all of which are editorial.

### ISO 22040-4, Life cycle management of concrete structures – Part 4: Use stage

- Concept of the document was presented, followed by discussion.

ISO/TC 71/WG 1 agrees to skip FDIS ballot of ISO 22040-3 and to move on to the publication stage because no technical comments have been received. ISO/TC 71/WG 1 requires to circulate the final document for check of WG 1 experts before the submission to ISO-CS.

ISO/TC 71/WG 1 agrees to continue studying ISO 22040-4 and to circulate the draft by August 2025 for PWI registration.

ISO/TC 71/AHG 1

Concrete materials terminology

# Activity report of ISO/TC 71 Ad hoc group 1 toward development of terminology related to concrete

ISO/TC71 AHG 1 Convenor

Shingo Asamoto

Saitama university, Japan

2024/11/22

# History and members of AHG1

The establishment of AHG 1 “Concrete materials terminology” was approved Feb. 2023.

## Members

- ✓ Australia (1)
- ✓ Brazil (1)
- ✓ China (3)
- ✓ India (1)
- ✓ Iran (2)
- ✓ Japan (3)
- ✓ Russia (2)

## Activities in 2023

- 1<sup>st</sup> meeting: 2023/5/11 @virtual meeting, 7 participants
- 2<sup>nd</sup> meeting: 2023/7/26@virtual meeting, 11 participants
- 3<sup>rd</sup> meeting: 2023/9/12@virtual meeting, 10 participants
- 4<sup>th</sup> meeting: 2023/11/2@virtual meeting, 7 participants
- 5<sup>th</sup> meeting: 2023/11/28@hybrid meeting (Nanning +Zoom), 9 participants

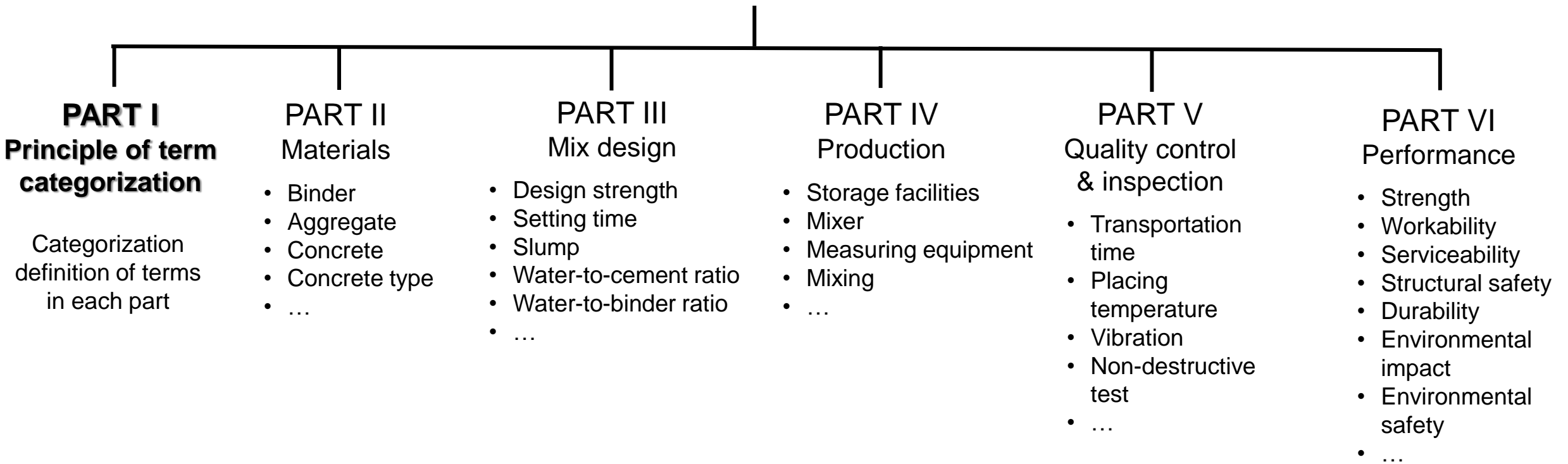
Extension of activity was approved at the 28th TC71 plenary meeting in Nanning on 27 November 2023.

# Short summary of discussion in 2023

- **Series:** Concrete terminology
- **Scope:** This international standard provides a compilation of terms related to concrete and concrete structures
- **Contents:** Terminology development with both material and structural aspects
- **Part I:** Principle of term categorization

# Series and provisional part constitution

## Series: Concrete terminology



PART I (Principle of term categorization) and PART II (Materials) will be standardized firstly and other parts will be discussed based on the work on parts I and II.



# Activity of ISO/TC71/AHG1 2024

## ➤ 6<sup>th</sup> meeting: 2024/3/7 @virtual meeting, 11:00-12:50 UTC

7 participants: Shingo Asamoto, Tetsushi Kanda, Kazuma Igarashi, Hua Yang, Yue Geng, Sofia Maria Carrato Diniz, Vyacheslav Falikman

Discussion on the contents of Part I and Part II.

## ➤ 7<sup>th</sup> meeting: 2024/6/4 @virtual meeting, 11:00-13:15 UTC

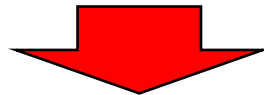
11 participants: Shingo Asamoto, Tetsushi Kanda, Kazuma Igarashi, Chuanchuan Hou, Yue Geng, Sofia Maria Carrato Diniz, Vyacheslav Falikman, Brijesh Singh, Aria Vand, Mostapha Vand, Tamon Ueda

Discussion on part constitution and draft of Part I proposed by experts in Japan

## ➤ 8<sup>th</sup> meeting: 2024/9/4 @virtual meeting, 11:00-12:30 UTC

8 participants: Shingo Asamoto, Kazuma Igarashi, Chuanchuan Hou, Yue Geng, Jim Forbes, Vyacheslav Falikman, Aria Vand, Mostapha Vand

Discussion on documents for NP ballot of working group establishment for Part I and schedule



**The NP ballot to establish a Working Group (WG) for the development of Part I has been initiated on 17 October 2024.**

# Discussion at TC71/AHG1

- Japan proposed to reconstruct “Materials” to deal with fundamental terms such as “concrete” and its constituents as a Part I, considering other part development independently.

Delegates emphasized the importance of aligning definitions with national standards to avoid conflicting interpretations. The terms in other parts can be defined based on the categorization in Part I avoiding overlapping. It was agreed again that Part I is “Principle of term categorization”.

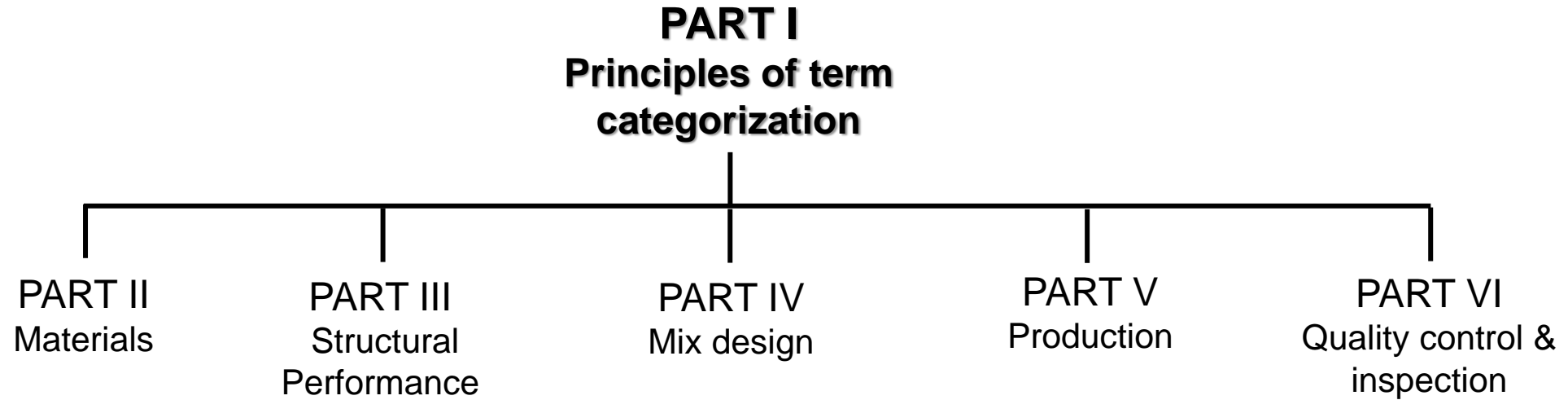
- How are terms related to structures implemented, for example, reinforced concrete”, “prestressed concrete”, “punching shear strength”, bond strength, “fatigue strength”, “anchorage length” and others?

They can be involved in Part II of “Materials” and Part III of “Structural performance”. It is not necessary to make an independent part to deal with terms related to structures.

- The terminology requirement can be dependent on situation of developed and developing countries. For example, the terms such as "sustainability" or "environmental performance“ would be for developed countries while conventional terms is needed in developing countries.

The involvement from many countries is necessary when working group is established.

# Part structure



- ✓ The title of each part should be defined in Part I.
- ✓ The content of each part defined in Part I can directly connect with the term categorization.
- ✓ The categorization should be simple but broad, with an emphasis on concepts and not just a list of items.

# Draft of Part I

## 1 Scope

This document provides general principles of term categorization in the standard of terminology related to concrete and concrete structures. This includes the part constitution and content in the standard.

## 2 Normative references

## 3 Terms and definitions

No terms and definitions are listed in this document.

## 4 General principle of concrete terminology

As concrete constituents, properties, design, application and engineering practices differs between countries/regions, concrete terminology shall be defined in accordance with the following principles.

- Quantitative criteria or range should be avoided. When numerical definition is un-avoidable, difference between countries/region shall be covered either by listing or by widening or narrowing the range.
- 2 or more different definition can be accepted when the term is used in both broad and narrow sense.
- A term can be categorized to multiple categories.
- Terms for region specific materials or production methods can be included in this standard as far as the definition reaches consensus.

NOTE 1: Quantitative criteria includes, for example, to set specific compressive strength for a definition of high strength concrete.

NOTE 2: Region specific materials include, for example, materials which are used for concrete only in specific regions or novel materials which can be produced in specific regions.

## 5 Term categorization in each part

The standard of terminology consists of six parts. Part I categorizes terms related to concrete and concrete structures into each part as follows:

Part II shall define terminology for concrete and its constituent materials. This part can include the essential materials required for the composition of concrete, such as binders and aggregates, as well as materials required for the intended applications and usage purposes, such as admixtures and additives, and materials essential for the construction of concrete structures as reinforcement, strengthening, repairing and others.

Part III shall define terminology related to the structural performance of concrete structures. This part can include safety, serviceability, durability, sustainability, service life, fire resistance, environmental performance, etc. It can also include terminology related to the properties of concrete that are necessary to explain each performance, for example the safety section can include terminology related to the design of concrete structures such as safety factor, design strength, reinforcement ratio and cover concrete depth.

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## ISO #####-#.####(X)

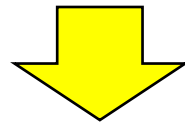
Part IV shall define terminology related to the mix design of concrete. In addition to essential terminology in the process of concrete mix design of concrete, such as water-cement ratio and unit water content, this part can include terminology related to the properties of fresh concrete, such as workability and consistency and terminology related to the properties of hardened concrete, such as strength properties and volume change.

Part V shall define terminology related to the production of concrete. This part can include terminology related to the process of concrete production, such as storage, measurement and mixing of materials, and terminology related to concrete production equipment. It shall cover both cast-in-place and precast concrete. However, it shall not include terminology related to the transportation of the concrete after it has been produced.

Part VI shall define terminology related to the quality control and inspection of concrete materials, reinforcing steel, manufacture, and properties. This part shall not include terminology related to the quality control and inspection of concrete construction.

# Agenda for new WG (if approved)

- Call more delegates from more various countries
- Survey on terminology in other standards
- Enhancement of the Part I draft with more appropriate term categorization for other parts
- Allocation of terms related to structures
- Fundamental terminology such as “concrete”, “reinforcement materials” and others



**We would like to invite more delegates from various countries to discuss international terminology.**

**ISO/TC 71/CAG**  
Chair Advisory Group



# **ISO/TC71 CAG (Chair Advisory Group) Mtg.**

**Hybrid**

**2024-11-19 5:30-6:50 (UTC)**

## 2. Meeting and attendant

	Ueda Tamon	Convenor
	Yokota Hiroshi	CM & WG1
V	Sikuler Yossi	SC1
N	Shamir Nir	SC1
	Karlsen Jan	SC3
	Tøsse Åsmund Eikeland	SC3
V	Kuzevanov Dmitry	SC4
V	Chaltseva Alexandra	SC4
	Sim Jongsung	SC5
	Kim Dong Joo	SC5

	Kanakubo Toshiyuki	SC6
N	Dai Jian-Guo	SC6
	Kanematsu Manabu	SC7
	Shin Soobong	SC7
	Noguchi Takafumi	SC8
	Fujimoto Satoshi	SC8
	Han Linhai	SC9
	Hou Chuanchuan	SC9
N	Asamoto Shingo	AHG1
V	Rossi Anna Caterina	TPM

\* V: virtual attendance, N: no attendance

Hybrid at Bliston Suwan Park View Hotel & Serviced Residence, 2024-11-19 5:30-6:50 (UTC)



### 3. Meeting agenda

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1. Opening of the meeting (12:45 UTC+7)
2. Welcome and Introductions
3. Work environment: Presentation on the ISO Code of Ethics and Conduct
4. Adoption of the agenda ( <b>CAG-N022</b> )
5. Discussion on the activities in TC 71 <b>5.1 Update the scope of TC 71</b> 5.2 Disbandment of TC 71/WG 2 and Maintenance of ISO 16521:2024 5.3 Achievement of ISO/TC 71/AHG 1 on concrete materials terminology <b>5.4 A basic rule of applying for the ISO Excellence Award</b> <b>5.5 New work item proposal on non-destructive test by TC 71/SC 1</b> 5.6 Others
6. Date and venue of next meeting of ISO/TC71 and CAG
7. Closure of the meeting (13:58 UTC+7)

### **Present**

Standardization of the technology of concrete, of the design and construction of concrete, reinforced concrete and pre-stressed concrete structures, so as to ensure progressive development both in quality and in price reduction; and of definitions and terms, as well as testing procedures, to facilitate international exchange of research work.

### **Revision [draft]**

Standardization of the technology of concrete **and non-traditional reinforcing materials**, of the design, construction and **maintenance** of **concrete and steel-concrete hybrid structures**, so as to ensure progressive development in quality, **cost efficiency** and **environmental-friendliness**; and of definitions and terms, as well as testing procedures, to facilitate international exchange of research work.

### **Meeting outcomes**

Considering various opinions raised during CAG meeting, Chair and Committee Manager of CAG will prepare the revised draft for the further discussion and approval by TC71

ISO/TC 71/SC 9 *Steel-concrete composite and hybrid structures* was established in April 2024. Accordingly, ISO/TC 71/WG 2 Design of concrete-filled steel tubular (CFST) hybrid structures terminates its activity and will be disbanded at the TC 71 plenary meeting.

ISO 16521:2024 *Design of concrete-filled steel tubular (CFST) hybrid structures* had been prepared by TC 71/WG 2 and was published in September 2024. After the disbandment of TC 71/WG 2, its maintenance will be assigned to TC 71/SC 9.

TC 71/AHG 1 concludes its activity by launching an NP ballot on ISO/NP 25511-1 Concrete terminology — Part 1: Principles of term categorization on 2024-10-15. It is not allowed to have discussions on it during the ballot period; however, if the NP is approved, the standardization activity will be assigned to a new working group (TC 71/WG 3).

#### **Objective of the award**

To recognize the contribution of **individuals** for recent achievements related to ISO's technical work that can be considered as a major contribution to furthering the interests of standardization and related activities.

#### **Selection**

Candidates may be **nominated by their peers (other experts, project leader, convenor), by the Chair or Committee Manager of the relevant committee (TC, SC or PC) or by the ISO/CS TPM.** In case of nominations in SCs, the TC leadership (Chair or Committee Manager) shall be informed of these nominations.

When considering nominees, the nominating person shall consider those individuals who have made an **exceptional contribution to the development of a specific project.** This contribution may be of a technical or organizational nature.

It is up to the committee leadership to determine the criteria by which they confirm award recipients, based on what is most relevant to their particular TC.

#### **Eligibility**

Any individual nominated in the capacity of expert, project leader or convenor in the working groups of the TC and its SCs is eligible for the award.

Note: Chairs and Committee Managers are not themselves eligible for this award. However, if an expert is active in a given TC or SC but is also a Chair or Committee Manager of another TC or SC, this person is still eligible to receive the award in his/her capacity as expert, project leader or convenor.



#### **Form and presentation of award**

The award shall be in the form of a certificate, signed by the ISO Secretary-General. It shall be presented by the committee leadership at the next plenary meeting of the committee or other appropriate event.

In addition, coverage may be given to the award recipients by the committee (via its website, social media, newsletters or other avenues, as it sees fit). Appropriate publicity should also be given to the granting of the award at national level, at the discretion of the relevant ISO Member Body.

The recipient, as well as the relevant ISO Member Body, are encouraged to inform the company/organization employing the recipient of this award.

#### **Number of awards per year/TC**

**There is no limit on the number** of awards per year, or per TC. However, all awards must be conferred for a significant contribution to a project that has been completed (published) **within the last year**.

## 3.4 A basic rule of applying for the ISO Excellence Award

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13

### **Administration of the award**

Nominating persons are invited to fill out the form (above) and return it to their committee secretariat. Upon receipt of the nomination, the Committee Manager will discuss the nomination with the committee chair and Technical Programme Manager (TPM) in order to confirm its veracity. The secretariat will then send it to the TPM at ISO/CS (and inform the secretariat of the TC in case of nominations in SC). There is **no specific deadline**. Requests for awards will be processed throughout the year, as they are received.

The TPM will order the certificate, which will be on a standard template, but will be personalized with the details specified on the form (recipient's name, organization, title of project in question, specific details of achievement, if relevant).

The TPM will inform the relevant member body that their expert has received the award. ISO/CS will print and deliver the certificate to the committee leadership, who are responsible for awarding it at their next meeting or other event, as they deem appropriate.

### **Meeting outcomes**

Chair and Committee Manager of CAG will prepare the guidelines for nomination within TC71 for confirmation by CAG and TC71

### 3.5 New work item proposal on non-destructive test

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15

TC 71/SC 1 will present the background and proposal at TC71 Plenary meeting.

#### 4. Date and venue of next meeting of ISO/TC71 and CAG

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16

Possibly 4th quarter of Year 2025

Hybrid style meeting

**Any proposal? – Self-nomination or Recommendation**

Thank you for your attention