


The background of the slide is a light gray gradient. It is decorated with several realistic water droplets of various sizes, scattered primarily in the top-left and bottom-right corners. The droplets have highlights and shadows, giving them a three-dimensional appearance.

**WCTF 2018**  
**8-9 November**  
**Sao Paulo, Brazil**



# ***ISO TC189 OVERVIEW***

THE CONTINUOUS WORK OF THE TC, IS INTENDED  
TO KEEP THE EXISTING AND NEW STANDARDS  
CURRENT WITH THE DEVELOPMENTS TAKING  
PLACE IN THE INDUSTRY AND IN THE MARKET





# ***ISO TC189 OVERVIEW***

ISO TC189 COMMITTEE ORGANIZED IN  
DIFFERENT WORKING GROUPS



# ***ISO TC189 OVERVIEW***

**WG1/WG4 - TEST METHODS**

**CERAMIC TILES/THIN TILES**

WG1/WG4 ARE WORKING ON TEST METHODS FOR  
CERAMIC TILES WITH TRADITIONAL FORMAT  
AND/OR LARGER FORMAT

# ***ISO TC189 OVERVIEW***

## **WG1/WG4 - TEST METHODS**

## **CERAMIC TILES/THIN TILES**

### **STANDARDS RECENTLY UPDATED AND/OR PUBLISHED**

**ISO10545-3:2018 (VACUUM METHOD) CERAMIC TILES, PART3:** DETERMINATION OF WATER ABSORPTION, APPARENT POROSITY, APPARENT RELATIVE DENSITY AND BULK DENSITY.

**ISO10545-2:2018 (AFTER SYSTEMATIC REVISION) CERAMIC TILES—** PART2: DETERMINATION OF DIMENSIONS AND SURFACE QUALITY

**ISO/FDIS 10545-4 CERAMIC TILES -- PART 4: DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGTH**

# ***ISO TC189 OVERVIEW***

## **WG1/WG4 - TEST METHODS CERAMIC TILES/THIN TILES**

### ***UNDER DEVELOPMENT***

ISO/NP 10545-17 CERAMIC TILES -- PART 17: DETERMINATION OF LIGHT REFLECTANCE VALUE (LRV)

ISO/NP 10545-18 CERAMIC TILES -- PART 18: DETERMINATION OF DEFLECTION OF CERAMIC TILES FOR CALCULATING THEIR RADIUS OF CURVATURE

ISO/NP 10545-19 CERAMIC TILES -- PART 19: DETERMINATION OF REVERSE STAINING RESISTANCE

ISO/NP 23680: DETERMINATION OF THE BEHAVIOR UNDER DYNAMIC LOAD OF COMPLETE CERAMIC FLOOR TILES INSTALLATION SYSTEMS

# ***ISO TC189 OVERVIEW***

## **WG1/WG4 - TEST METHODS**

### **CERAMIC TILES/THIN TILES**

#### **SOON BALLOT FOR SYSTEMATIC REVISION:**

ISO10545-9:2013; CERAMIC TILES - PART9: DETERMINATION OF RESISTANCE TO THERMAL SHOCK

ISO10545-10:2011; CERAMIC TILES - PART10: DETERMINATION OF MOISTURE EXPANSION.

ISO10545-15:2011; CERAMIC TILES - PART15: DETERMINATION OF PB AND CD GIVEN OFF.



# ***ISO TC189 OVERVIEW***

## **WG1/WG4 - TEST METHODS**

### **CERAMIC TILES/THIN TILES**

WORKING PROCESS

MEASURING DIMENSION OF LARGE FORMAT TILES

MEASURING TENSILE ADHESION STRENGTH FOR  
LARGE PANELS





# ***ISO TC189 OVERVIEW***

## **WG1/WG4 - TEST METHODS**

### **CERAMIC TILES/THIN TILES**

#### WEAR RESISTANCE/ABRASION

- ISO/AWI TS 23051: UNIVERSAL TEST METHOD FOR WEAR RESISTANCE BY PEDESTRIAN TRAFFIC ON FLOORING
- SCOPE OF THE PROPOSED DELIVERABLE: TECHNICAL SPECIFICATION (TS) FOR THE DEVELOPMENT OF A TEST METHOD TO SIMULATE THE SURFACE CHANGES DUE TO PEDESTRIAN TRAFFIC ON FLOORING MATERIALS AND A CLASSIFICATION CRITERIA FOR SELECTION PER ITS INTENDED USE.
- ‘NEW PROPOSAL: UNIVERSAL TEST METHOD FOR WEAR (ABRASION) RESISTANCE ON FLOORING/CERAMIC TILE SURFACES/ MULTI-ATTRIBUTE APPROACH).

# ***ISO TC189 OVERVIEW***

## **WG2 - PRODUCT SPECIFICATIONS**

UPDATED ISO 13006 CERAMIC TILES –  
DEFINITIONS, CLASSIFICATION,  
CHARACTERISTICS AND MARKING

THE NEW VERSION OF ISO13006 HAS BEEN  
PUBLISHED IN 2018.

WG2 IS CURRENTLY WORKING IN THE NEW  
DEFINITIONS/TERMINOLOGY FOR CERAMIC TILE  
THICKNESS AND CRITERIA FOR CERAMIC  
MOSAICS.

# ***ISO TC189 OVERVIEW***

## **WG3 - PRODUCTS FOR INSTALLATION**

ISO/NP 13007-7 -- GROUTS AND ADHESIVES -- PART 7:  
REQUIREMENTS, TEST METHODS, EVALUATION OF  
CONFORMITY, CLASSIFICATION AND DESIGNATION FOR  
***BONDED SOUNDPROOFING MEMBRANES FOR USE  
BENEATH CERAMIC TILING BONDED WITH ADHESIVES***

ISO/CD 13007-6 -- GROUTS AND ADHESIVES -- PART 6:  
REQUIREMENTS, TEST METHODS, EVALUATION OF  
CONFORMITY, CLASSIFICATION AND DESIGNATION FOR  
***WATERPROOF MEMBRANES USED WITH THE  
INSTALLATION OF CERAMIC TILES***

***TEXTURE AND FINISH OF CONCRETE SUBSTRATES  
USED IN TEST METHODS ISO13007***

# ***ISO TC189 OVERVIEW***

## **WG6 – INSTALLATION METHODS**

WG6 IS WORKING ON CERAMIC TILES --  
GUIDELINES FOR INSTALLATION –

PART 1: INSTALLATION OF CERAMIC WALL AND  
FLOOR TILES.

PART 2: INSTALLATION OF THIN CERAMIC WALL  
AND FLOOR TILES AND PANELS.

PART 3 (ISO/NP TR 17870-3): INSTALLATION OF  
LARGE FORMAT PORCELAIN TILES AND PANELS  
BY MECHANICAL MEANS ONTO A SUPPORTING  
STRUCTURE.

# ***ISO TC189 OVERVIEW***

## **WG7 - SUSTAINABILITY FOR CERAMIC TILES AND INSTALLATION MATERIALS**

WG7 IS WORKING ON AN INTERNATIONAL  
STANDARD FOR SUSTAINABILITY –

ISO/CD 17889-1 CERAMIC TILING SYSTEMS --  
SUSTAINABILITY FOR CERAMIC TILES AND  
INSTALLATION MATERIALS -- PART 1:  
SPECIFICATION FOR CERAMIC TILES

ISO/WD 17889-2 CERAMIC TILING SYSTEMS --  
SUSTAINABILITY FOR CERAMIC TILES AND  
INSTALLATION MATERIALS -- PART 2:  
SPECIFICATION FOR TILE INSTALLATION  
MATERIALS

# ***ISO TC189 OVERVIEW***

## **WG8 – ANTIMICROBIAL PROPERTIES OF CERAMIC TILE SURFACES:**

WG8 IS WORKING ON A QUANTITATIVE DETERMINATION OF ANTIBACTERIAL ACTIVITY OF CERAMIC SURFACES – TEST METHODS –

ISO/CD 17721-1 QUANTITATIVE DETERMINATION OF ANTIBACTERIAL ACTIVITY OF CERAMIC SURFACES -- TEST METHODS -- PART 1: CERAMIC SURFACES WITH INCORPORATED ANTIBACTERIAL AGENTS

ISO/CD 17721-2 QUANTITATIVE DETERMINATION OF ANTIBACTERIAL ACTIVITY OF CERAMIC SURFACES -- TEST METHODS -- PART 2: CERAMIC SURFACES WITH INCORPORATED PHOTOCATALYTIC ANTIBACTERIAL AGENTS

# ***ISO TC189 OVERVIEW***

## **WG9 – LOW MODULUS ADHESIVES FOR EXTERIOR TILE FINISHING**

WG9 HAS COMPLETED THE WORK.

NEXT SYSTEMATIC REVIEW: 2021-10-15

# ***ISO TC189 OVERVIEW***

## **WG10 – SLIP RESISTANCE MEASUREMENT FOR CERAMIC TILE SURFACES**

THE COMMITTEE IS WORKING TO BUILD CONSENSUS AND PREPARING THE SCOPE AND JUSTIFICATION (ISO FORM 4) IN A NEW WORKING PROJECT (NWP)

UNIVERSALLY ACCEPTABLE TEST METHOD/S FOR DETERMINATION OF SLIP RESISTANCE (INTERIOR AND EXTERIOR) OF CERAMIC TILE SURFACES ARE NEEDED



# ***ISO TC189 OVERVIEW***

## **WG11 – UNCOUPLING MEMBRANE FOR CERAMIC TILE INSTALLATION**

ISO/WD 23215 - UNCOUPLING MEMBRANE FOR  
CERAMIC TILE INSTALLATION - WAITING ON DRAFT  
FOR CIRCULATION.

UNDERGOING TESTING: RR IN VAPOR, RR  
SUSPENDED WOODEN FRAMES, RR  
SHEAR/TENSILE STRENGTH

# ***ISO TC189 OVERVIEW***

FOR ALL STANDARDS DEVELOPMENT EXISTING NATIONAL STANDARDS ARE CONSIDERED TO ARRIVE AT A CONSENSUS. IN SOME CASES, THIS IS A RELATIVELY STRAIGHTFORWARD PROPOSITION, BUT FOR ISSUES SUCH AS SLIP RESISTANCE OF CERAMIC TILE SURFACES, EXISTING NATIONAL STANDARDS ARE SO DIVERGENT, THAT MORE WORK AND DISCUSSION IS NEEDED TO ACHIEVE FULL CONSENSUS.

# UPDATE—ISO CORE PCR

- TC 59/SC 17—REQUEST TO LIAISE WITH TC 189
- ISO 21930: SIGNIFICANT UPDATE IN 2017
- MODULARITY
  - A1 – A3 PRODUCTION
  - A4 – A5 CONSTRUCTION
  - B1 – B7 USE
  - C1 – C4 END OF LIFE
- SERVICE LIFE DETERMINATION AND INCORPORATION INTO EPD
  - ESTIMATED BUILDING SERVICE LIFE (ESL)
  - REFERENCE PRODUCT SERVICE LIFE (RSL)



# NORTH AMERICAN FLOORING PCR

- UPDATED LAST YEAR
- CARPET, RESILIENT, LAMINATE, CERAMIC AND WOOD
- CONFORMANCE TO UPDATED 21930
- 75 YEAR BUILDING SERVICE LIFE ASSUMPTION
  - NUMBER OF REPLACEMENTS (BASED ON PRODUCT RSL) MUST BE CONSIDERED
- EXPANDED GUIDANCE ON INDUSTRY-WIDE EPD PROCEDURES

