



Kalustelaboratorion palvelut

Kalustetestausta- ja asiantuntijapalvelut

Seinäkkeet

Office furniture. Screens. Part 1: Dimensions	EN 1023-1
Office furniture. Screens. Part 2: Mechanical safety requirements	EN 1023-2
Office furniture. Screens. Part 3: Test methods	EN 1023-3

Toimistotuolit, kotituolit

Office furniture. Office work chair. Part 1: Dimensions. Determination of dimensions	EN 1335-1
Office furniture. Office work chair. Part 2: Safety requirements	EN 1335-2
Office furniture. Office work chair. Part 3: Test methods	EN 1335-3
Office furniture. Office work chair. Part 4: Clarifications to EN 1335-1:2000 (Dimensions)	EN 1335-4
Furniture. Strength, durability and safety. Requirements for non-domestic seating	EN 16139
Furniture. Seating. Test methods for the determination of strength and durability	EN 1728
Domestic furniture. Seating. Determination of stability	EN 1022
Furniture. Links for non-domestic seating linked together in a row.	EN 14703
Strength requirements and test methods	
Furniture. Strength, durability and safety. Requirements for domestic seating	EN 12520
Furniture. Ranked seating. Requirements for safety, strength and durability	EN 12727
Furniture -- Chairs and stools -- Determination of strength and durability	ISO 7173
Furniture -- Chairs -- Determination of stability -- Part 1: Upright chairs and stools	ISO 7174-1
Furniture -- Chairs -- Determination of stability -- Part 2: Chairs with tilting or reclining mechanisms when fully reclined, and rocking chairs	ISO 7174-2

Toimistokaapit, kotikaapit

Glass in furniture. Test methods	EN 14072
Office furniture. Storage furniture. Part 1: Dimensions	EN 14073-1
Office furniture. Storage furniture. Part 2: Safety requirements	EN 14073-2
Office furniture. Storage furniture. Part 3: Test methods for the determination of stability and strength of the structure	EN 14073-3
Office furniture. Tables and desks and storage furniture.	EN 14074
Test methods for the determination of strength and durability of moving parts	
Non-domestic storage furniture. Requirements for safety, strength, durability and stability	EN 16121
Domestic and non-domestic storage furniture. Test methods for the determination of strength, durability and stability	EN 16122

Toimistopöydät, kotipöydät

Office furniture. Work tables and desks. Part 1: Dimensions	EN 527-1
Office furniture. Work tables. Part 2: Safety, strength and durability requirements	EN 527-2
Office furniture. Work tables and desks. Part 3: Methods of test for the determination of the stability and the mechanical strength of the structure	EN 527-3
Furniture. Strength, durability and safety. Requirements for non-domestic tables	EN 15372
Office furniture -- Tables and desks -- Test methods for the determination of stability, strength and durability	ISO 21016

Oppilastuolit ja oppilaspöydät

Furniture. Chairs and tables for educational institutions. Part 1: Functional dimensions	EN 1729-1
Furniture. Chairs and tables for educational institutions. Part 2: Safety requirements and test methods	EN 1729-2

Kotipöydät

Furniture. Strength, durability and safety. Requirements for domestic tables	EN 12521
--	----------

Puutarhikalusteet

Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 1: General safety requirements	EN 581-1
Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 2: Mechanical safety requirements and test methods for seating	EN 581-2
Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 3: Mechanical safety requirements for tables	EN 581-3
Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 4: Requirements and test methods for durability under the influence of climatic conditions (säätetaustaus osio)	EN 581-4

Lastenkalusteet

Furniture. Children's cots and folding cots for domestic use. Part 2: Test methods	EN 716-2
Children's high chairs. Requirements and test methods	EN 14988

Patjat ja sängyt

Furniture. Beds and mattresses. Test methods for the determination of functional characteristics and assessment criteria	EN 1957
Furniture. Bunk beds and high beds. Part 1: Safety, strength and durability requirements	EN 747-1
Furniture. Bunk beds and high beds. Part 2: Test methods	EN 747-2
Furniture. Cribs and cradles for domestic use. Part 1: Safety requirements	EN 1130-1
Furniture. Cribs and cradles for domestic use. Part 2: Test methods	EN 1130-2

Pintatellit

Asunnon kiintokalusteet, toiminnalliset ominaisuudet, testausmenetelmät ja vaatimukset SFS 4969

Furniture -- Assessment of surface resistance to cold liquids	ISO 4211
Furniture -- Tests for surface finishes -- Part 2: Assessment of resistance to wet heat	ISO 4211-2
Furniture -- Tests for surface finishes -- Part 3: Assessment of resistance to dry heat	ISO 4211-3
Furniture -- Tests for surfaces -- Part 4: Assessment of resistance to impact	ISO 4211-4
Furniture. Assessment of surface resistance to cold liquids	EN 12720
Furniture. Assessment of surface resistance to wet heat	EN 12721
Furniture. Assessment of surface resistance to dry heat	EN 12722
High- pressure decorative laminates (HPL). Sheets based on thermosetting resin (usually called laminates). Part 2: Determination of properties	EN 438-2

- Resistant of surface wear
- Determination of flatness
- Assessment of appearance
- Resistant to abrasion (flooring grade laminates)
- Resistant to immersion in boiling water
- Resistant to water vapour
- Resistant to dry heat
- Dimensional stability at elevated temperature
- Resistant to wet heat
- Resistance to crazing (Compact laminates)
- Resistance of scratching
- Resistance to cracking under stress (laminates ≤ 2 mm thick)
- Determination of the microscratch resistance (Martindale)
- Resistance to impact by large diameter ball
- Resistance to impact by large diameter ball (flooring grade laminates)

Keittiökalu

Furniture. Kitchen furniture. Coordinating sizes for kitchen furniture and kitchen appliances	EN 1116
Furniture. Domestic and kitchen storage units and kitchenworktops. Safety requirements and test methods	EN 14749

Tuotekehitystestaus ja asiantuntijapalvelut

- Tuotetestus
- Tuotekehitystestaus standardin mukaisilla / modifioituilla testeillä
- Vaatimustenmukaisuus testaus, standardinmukaiset testimenetelmät
- Reklamaatioselvitykset ja analyysit

- Tulosten analysointi, kehitysehdotukset ja raportointi
- Menetelmäkehitys
- Tuote- ja prosessin kehitys

Laitteet

Käytössämme on monipuoliset laitteet edellä mainittujen standardin mukaisten testien tekemiseen mm.

- Tuolitestaustaite (istuin/selkätestilaitte, käsinojien testauslaitte)
- Patjan testauslaitteet ja testikehikko sänkytesteihin
- Pyörällisten kaappien ja tuolien kestotestaustaite
- Ripustettavien kaappien testausseinä
- Laatikot, avaus, kestotestaustaite
- Kaapinonet, avaus, kestotestaustaite
- Iskulaite, istuimet
- Sohvatestauslaitte
- Iskuvasara (vakaustestaus)
- Taber Abraser 352 (pinnan kulutus)
- Martindale, kulutustestaus, huonekalukankaat
- Naarmutusaite, Erichsen linear tester 249
- Naarmutusaite, Erichsen Scratch hardness tester 413
- Bite tester (lastenkalusteet)
- Rakotulkki (lastenkalusteet)
- Kuormituspainot 11*10 kg, kalibroidut painot, vakavuustestiin
- Digitaalinen mikroskooppi, 20x/40x/200x