

# SEELIFT 2023

## 3rd Regional Symposium on Lifts & Escalators

**LIFTS AND ESCALATORS SUBJECT TO SEISMIC CONDITIONS  
SAFETY, ACCESSIBILITY AND ENERGY EFFICIENCY  
IN MODERNIZING EXISTING LIFTS**

### **Technical Committee ISRSM TC 6 Lifts, escalators and moving walks – Ongoing activities**

Mr. Goran Pletvarski

Head of unit for general standardization

Standardization Institute of the Republic of North Macedonia (ISRSM)

25-26 September 2023, Skopje N. Macedonia



**MACEDONIAN  
LIFT ASSOCIATION**



## ISRSM TC 6 - LIFTS, ESCALATORS AND MOVING WALKS



**THE TECHNICAL COMMITTEES (TC) ARE BODIES THAT CARRY OUT STANDARDIZATION ACTIVITIES WITHIN THE INSTITUTE OF STANDARDIZATION.**

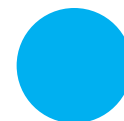
TC consisting of the different type of a stakeholders category (members), i.e. body consisting of representatives of the state administrative bodies and legal entities: manufacturers, trade companies, associations, chambers of commerce, educational and scientific institutions, certification bodies, laboratories, inspection bodies and other legal entities.

**The composition of the TC should ensure equal representation of all stakeholder category.**

## ISRSM TC 6 - LIFTS, ESCALATORS AND MOVING WALKS

### BASIC INFORMATION:

- ESTABLISHED: 2006-12-15
- CHAIR: MR. GORAN SEKOVSKI,  
INSTITUTE OF TECHNICAL INSPECTION AND  
SAFETY ENGINEERING, (ITI) SKOPJE
- ISRSM SECRETARY: MR. GORAN PLETVARSKI
- MEMBERS/  
STAKEHOLDERS: 12 (MAY 2019)
- PLENARY MEETINGS: 24
- WEBSITE: [HTTPS://ISRSM.GOV.MK/EN/COMMITTEE/SHOW/9263](https://isrsm.gov.mk/en/committee/show/9263)



## ISRSM TC 6 - LIFTS, ESCALATORS AND MOVING WALKS

### SCOPE:

STANDARDIZATION OF ALL ASPECTS, INCLUDING SAFETY REQUIREMENTS FOR MANUFACTURE, INSTALLATION, AND OPERATION OF **LIFTS FOR TRANSPORT OF PEOPLE, LIFTS FOR TRANSPORT OF PEOPLE AND GOODS, SERVICE LIFTS, ESCALATORS AND MOVING WALKS, LIFT PLATFORMS, AND MEANS TO LIFT PEOPLE AND/OR GOODS.**

STANDARDIZATION IN THE FIELD OF SAFETY OF **CHAINS, ROPES, WEBBING, SLINGS,** AND ACCESSORIES INTENDED FOR HANGING, LIFTING, AND LOWERING OF PEOPLE AND LOAD.

STANDARDIZATION IN THE FIELD OF **CRANES** AND OTHER EQUIPMENT FOR LIFTING AND MOVING OF LOAD, ESPECIALLY IN TERMS OF TERMINOLOGY, DETERMINING CARGO CAPACITY, EXAMINATION, SAFETY, THE GENERAL PRINCIPLES OF CONSTRUCTION, MAINTENANCE, AND THEIR USE.

STANDARDIZATION IN THE FIELD OF **CABLEWAY INSTALLATIONS DESIGNED TO CARRY PERSONS** AND SKI LIFTS.



# ISRSM TC 6 - LIFTS, ESCALATORS AND MOVING WALKS

## INTERNATIONAL AND EUROPEAN “MIRROR” COMMITTEES

European committees - CEN		International committees - ISO	
<b>CEN/TC 10</b>	Lifts, escalators and moving walks (monitoring the work since Jun 2010)	<b>ISO/TC 96</b>	Cranes (Observing member since Jun 2010)
<b>CEN/TC 98</b>	Lifting platforms	<b>ISO/TC 111</b>	Round steel link chains, chain slings, components and accessories
<b>CEN/TC 147</b>	Cranes – Safety	<b>ISO/TC 178</b>	Lifts, escalators, passenger conveyors (Observing member since August 2010)
<b>CEN/TC 149</b>	Power-operated warehouse equipment- Safety	<b>ISO/TC 214</b>	Elevating work platforms
<b>CEN/TC 168</b>	Chains, ropes, webbing, slings and accessories - Safety	<b>ISO/TC 105</b>	Steel wire ropes
<b>CEN/TC 242</b>	Safety requirements for passenger transportation by rope		

# ISRSM TC 6 - LIFTS, ESCALATORS AND MOVING WALKS

## ADOPTED STANDARDS, WITHDRAWN STANDARDS AND WORK PROGRAM

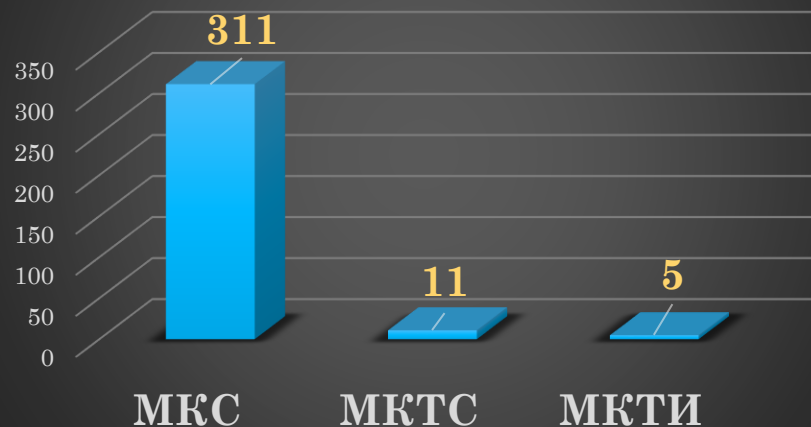
### ADOPTED MACEDONIAN STANDARDS 327

Adopted	MKC	MKTC	MKTI
ISO	161	7	5
CEN	149	4	
ISRSM	1		

### WITHDRAWN MACEDONIAN STANDARDS 365

Withdrawn	MKC	MKTC	MKTI
ISO	56	2	/
CEN	211	9	/
ISRSM	87		

### Total number of adopted standards 327



### NATIONAL ABBREVIATIONS

- Macedonian standards - MKC
- Macedonian technical specification – MKTC
- Macedonian technical report – MKTI
- Guide – MKY,
- Amendment – A
- Corrigenda – Kop

## WORK PROGRAM

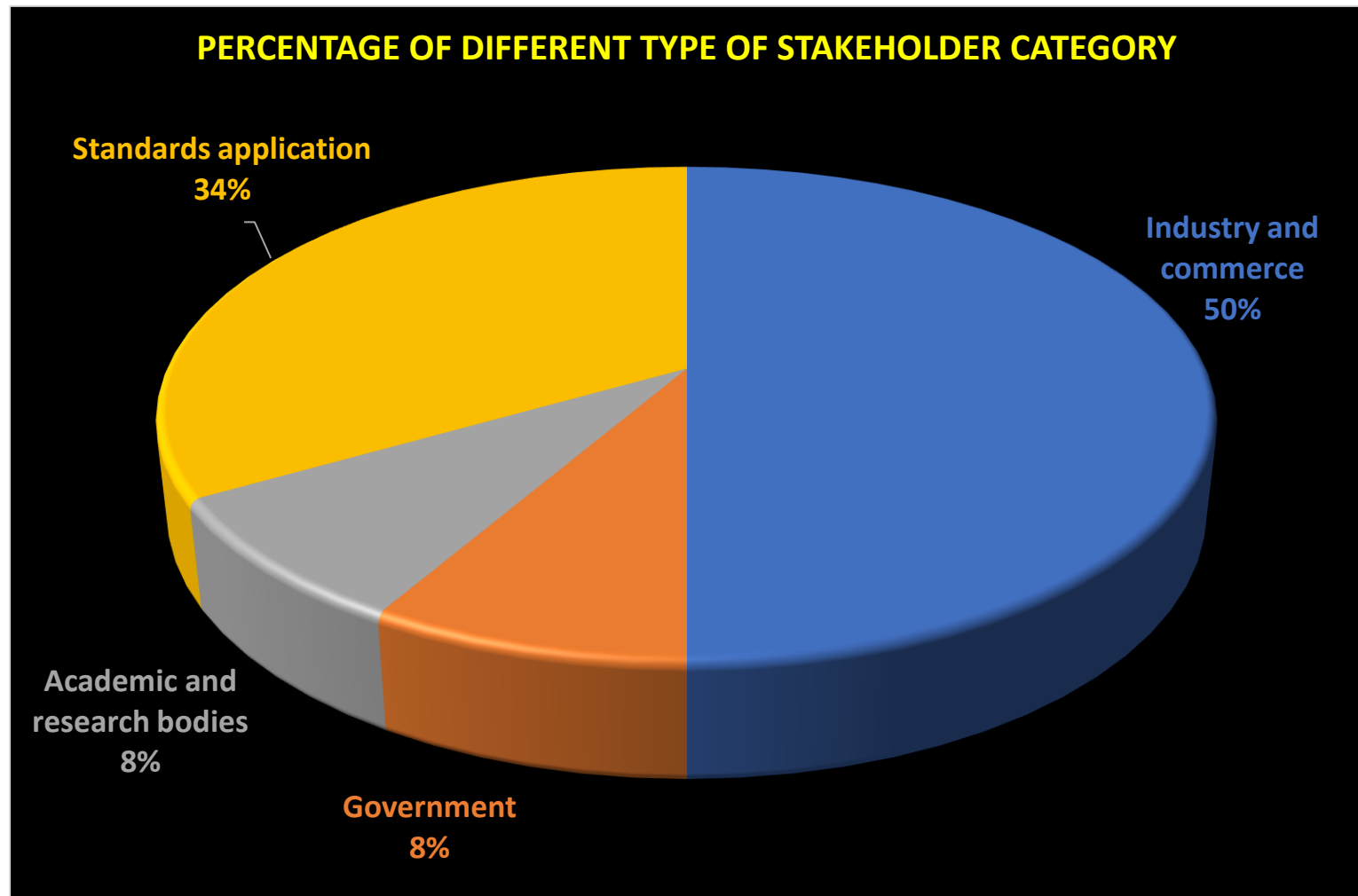
51 (PROJECT, STANDARDS IN DEVELOPMENT)





## ISRSM TC 6 - LIFTS, ESCALATORS AND MOVING WALKS

### STAKEHOLDER CATEGORY



## ISRSM TC 6 - LIFTS, ESCALATORS AND MOVING WALKS

- In its Business plan ISRSM TC 6 among other is focus on all aspects of environmental protection in the development of its standards, taking into account the guidelines given in:

### **MKY CEN Guide 4:2010 (IDT, CEN Guide 4:2008)**

Упатство кое се однесува на прашања во врска со животна средина во стандарди за производи  
Guide for addressing environmental issues in product standards

- The main impact of elevators and escalators on the environment concerns the (electrical) energy consumption during the use of these installations. The EN ISO 25745 series of standards provide both a global agreement and a common set of tools for improving the energy performance of these installations.

### **MKC EN ISO 25745-1:2023 (IDT, EN ISO 25745-1:2023)**

Енергетски карактеристики на лифтови, ескалатори и подвижни ленти за луѓе - Дел 1:  
Енергетски мерења и верификација (ISO 25745-1:2023)  
Energy performance of lifts, escalators and moving walks - Part 1: Energy measurement and verification (ISO 25745-1:2023)

### **MKC EN ISO 25745-2:2015 (IDT, EN ISO 25745-2:2015)**

Енергетски перформанси за лифтови, ескалатори и подвижни ленти за луѓе – Дел 2: Енергетска пресметка и класификација за лифтови (елеватори)  
Energy performance of lifts, escalators and moving walks - Part 2: Energy calculation and classification for lifts (elevators) (ISO 25745-2:2015, Corrected version 2015-12-15)

### **MKC EN ISO 25745-3:2015 (IDT, EN ISO 25745-3:2015)**

Енергетски перформанси на лифтови, ескалатори и подвижни ленти за луѓе – Дел 3: Енергетска пресметка и класификација за ескалатори и подвижни ленти за луѓе  
Energy performance of lifts, escalators and moving walks - Part 3: Energy calculation and classification of escalators and moving walks (ISO 25745-3:2015)



### National standard for seismic conditions

#### **МКС EN 81-77:2022 (IDT, EN 81-77:2022)**

Безбедносни правила за конструкција и монтажа на лифтови - Одредени примени на патничките и лифтовите за лица и стоки - Дел 77: Лифтови кои се предмет на сеизмички услови

Safety rules for the construction and installations of lifts - Particular applications for passenger and goods passenger lifts - Part 77: Lifts subject to seismic conditions

This standard specifies the additional special provisions and safety rules for passenger and goods passenger lifts where these lifts are installed in buildings and constructions intended to withstand seismic events in **compliance with EN 1998-1:2004 (Eurocode 8)**, during use, maintenance, inspection and emergency operation of lifts.

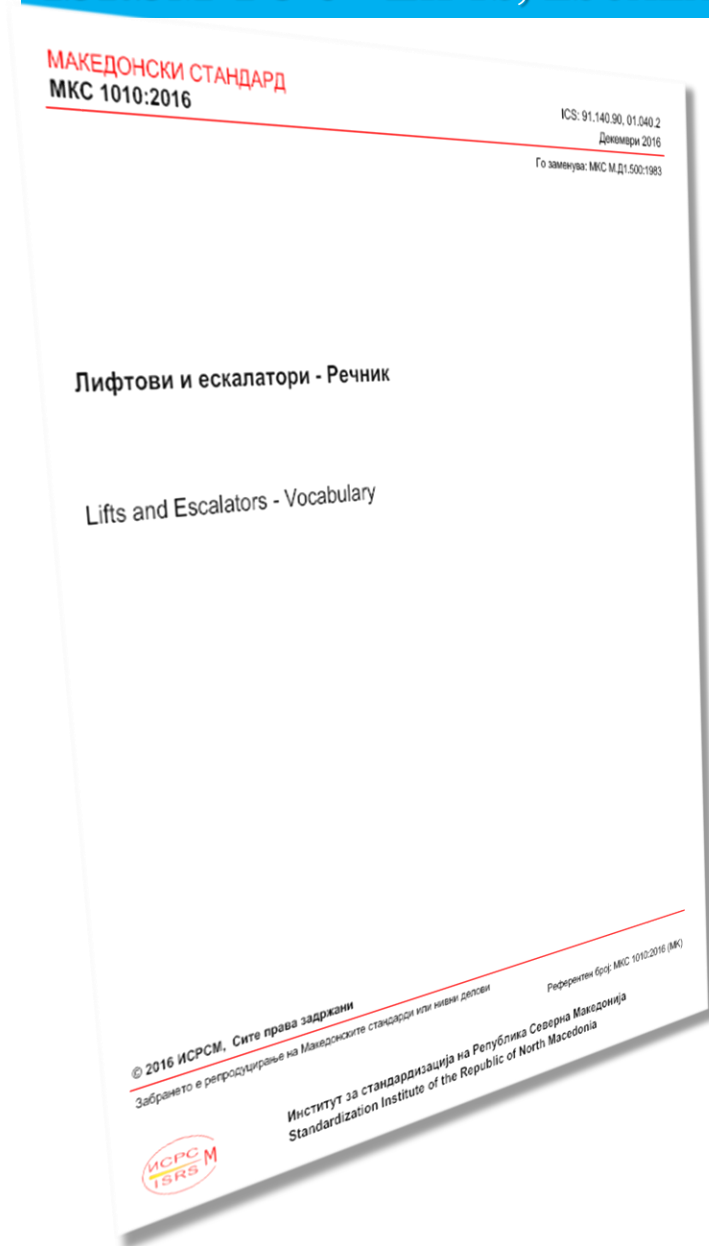


## National Macedonian standard

### МКС 1010:2016

#### Лифтови и ескалатори - Речник Lifts and Escalators - Vocabulary

This standard defines the terms used in maintenance, installation, inspection and modernization of lifts and escalators. The objective is the unification of terminology in the field of vertical transport of persons and goods (lifts and escalators) in accordance with standard Macedonian language and to facilitate future translations of the Macedonian standards in this field, as well as other professional literature and unification of professional terminology.



### ONGOING AND NEXT ACTIVITIES:

- VERIFICATION OF THE TRANSLATION OF MKC EN 81-20:2020,
- REVISION OF MKC 1010:2016, FOLLOWING VERIFICATION OF TRANSLATION OF MKC EN 81-20:2020
- REVIEW OF TRANSLATION OF 16 OTHER HARMONIZED STANDARDS FROM THE EU DIRECTIVE FOR LIFTS AND ONE FROM THE MACHINERY DIRECTIVE,
- CONTINUOUS MONITORING OF THE WORK OF EUROPEAN AND INTERNATIONAL COMMITTEES FOR LIFTS AND ADOPTION OF THEIR STANDARDS AS MACEDONIAN,
- SHARING INFORMATION WITH THE BUSINESS COMMUNITY ABOUT NEW EUROPEAN AND INTERNATIONAL STANDARDS,
- CONTINUITY IN COOPERATION WITH THE MACEDONIAN LIFT ASSOCIATION AS WELL AS OTHER INSTITUTIONS IN THIS FIELD OF ACTIVITY



# THANK YOU FOR YOUR ATTENTION

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