Introduction to EN 81-20/50
(revision of EN 81-1/2)
CEN TC 10 (Lifts, escalators and moving walks)

CEN/TC 10 Work Program
CEN/TC 10

Work Program

Established in 1971

Publications
- Standards: 31
- Technical Specifications: 4
- Technical Report: 2
- Regular review of all publications

Under development
- Standards: 7
- Technical Specifications: 0
- Technical Report: 1

Two main standards
- EN81-1 and EN81-2 (Lifts)
- EN115-1 (Escalators)
Total of 45 standards, 37 published and 8 under development
EN 81-20 and EN 81-50

Revision of EN 81-1 and EN 81-2

→ EN 81-1 and EN 81-2, are being revised

→ The result; two new standards
  - **EN 81-20**: Requirements for complete passenger or goods passenger lift installations independent of the driving system
  - **EN 81-50**: Description of the examinations, calculations and tests of lift components used in any type of lift (passenger, goods passenger, goods only lift, etc.)

→ Many aspects of the standards have been changed and safety provisions have been improved
EN 81-20 and EN 81-50

Preparation for revision of EN 81-1/2

Text of EN 81-1 & EN 81-2 and Amendments

Interpretations

Standardisation Requirements
- CEN Guides 4, 6 and 12
- CEN Guide 414

Comments from International interest groups
- China
- Other Asia Pacific Countries
- North America
- Etc.

Comments from European interest groups
- EU Commission
- Notified Body for Lifts
- Trade Associations
- Etc.

Ease of use and Maintenance

Legislative
- Lifts Directive
- Machinery Directive
- Low Voltage Directive

More than 700 items for revision were identified!
Examples of changes and improvements
EN 81-20 and EN 81-50

Examples of safety improvement for passengers

- Higher requirements for strength of landing and car doors
- Preventing door striking the passengers when entering or leaving the lift car
- Higher requirements for strength of car walls
- Prevision against possible fall into the lift well due to self-rescue
- Higher requirements for rescue of trapped persons
EN 81-20 and EN 81-50

Examples of safety improvement for workers

→ Higher requirements for refuge spaces on the car roof and in the pit

→ Higher requirements for balustrades on the car roof

→ Higher requirements to prevent risk of trapping on the car roof and in the pit

→ Higher requirements for the size and location of landing door unlocking device

→ Control station in the pit to avoid using ladders and stools to reach car components

→ Specific requirements for over connecting the car or landing door contacts during the maintenance operations
EN 81-20 and EN 81-50 Published on
August, 2014

EN 81-1 and EN 81-2 Date of Withdrawal
August, 2017
EN 81-20 and EN 81-50

CEN/TR 81-12

- CEN/TR 81-12 (Use of EN 81-20 and EN 81-50 in specific markets)

- New document (CEN Technical Report)

- Based on the comments received from ISO non-European members during the prEN 81-20/50 CEN Enquiry

- It provides
  - Comparison of clause numbers of EN 81-1/2 and EN 81-20/50 to assist with adoption of the new standards
  - Explanation on the basics of EN 81-20/50, for example importance of “assumptions” in the standard or understanding the meaning of “shall”, “should”, etc.
  - Some guidance on how to align the EN 81-20/50 requirements with national regulations (outside Europe)

- To be published before the end of 2014!