NEW BUILDINGS

ANNEX II

Integrated indoor well-being

Assessment and verification: The applicant shall provide documentation according to the EN 15251 standard as follow:

THERMAL ENVIRONMENT		
Mechanical heated and	Buildings without mechanical	
cooled buildings	cooling systems	
Category II of Table A.1	Category II of Figure A.1 Indicator: Operative temperature Θ_0	
Indicator: PMV and/or PPD		
Category II of Table A.2		
Indicator: Operative		
temperature		

HUMIDIFICATION AND DEHUMIDIFICATION
Category II of Table B.6
Indicator: relative humidity

INDOOR AIR QUALITY AND VENTILATION RATES		
Non-residential buildings	Residential buildings	
Category II of Table B.2 Indicator: total ventilation rate q tot	Ventilation during occupied hours	Ventilation during non- occupied hours
Category II of Table B.3	Category II of Table	
Indicators:	B.5	
 ventilation rate for person 	Indicators:	
• ventilation rate for m ² floor	 air change 	ed 4
area	rate for m ²	§B.4
Category II of Table B.4	floor area	
Indicator: outdoor CO ₂ concentration	air change rate for hour	

gory II of Table B.4 ator: outdoor CO ₂ concentration	floor area • air change	
	rate for hour	
LIGHT	ING	
Values of Table D.1		

- Maintained luminance at working areas
- UGR
- Ra

Indicators:

NOISE	
Values of Table E.1	
Indicator: sound pressure level	

Design indoor parameters shall be assessed in compliance with §7 and § 8 of EN 15251.

For New Buildings test method refers to simulated parameters on the average room of the building. The average room is here defined as a room of each different zone of the building characterized by a typical usage profile by occupants and subjected to outdoor climate conditions representative of the site.

References

- EN 15251, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics.
- ISO 7726, Ergonomics of the thermal environment Instruments for measuring physical quantities.
- EN 12599; Ventilation for buildings Test procedures and measuring methods for handing over installed ventilation and air conditioning systems.
- EN 12464-1; Light and lighting Lighting of work places Part 1: Indoor work places.
- EN 13032-2; Light and lighting Measurements and presentation of photometric data of lamps and luminaries. Presentation of data for indoor and outdoor work places.
- ASHRAE Standard 62 Ventilation for acceptable indoor air quality. Analysis and recommendations.