DIN ISO 16000-40



ICS 13.040.20

Indoor air -

Part 40: Indoor air quality management system (ISO 16000-40:2019), English translation of DIN ISO 16000-40:2019-12

Innenraumluftverunreinigungen -

Teil 40: Innenraumluftqualitätsmanagementsystem (ISO 16000-40:2019), Englische Übersetzung von DIN ISO 16000-40:2019-12

Air intérieur -

Partie 40: Système de management de la qualité de l'air intérieur (ISO 16000-40:2019), Traduction anglaise de DIN ISO 16000-40:2019-12

Document comprises 31 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.



A comma is used as the decimal marker.

CO	шеш	.5	Page		
Nati	ional fo	reword	4		
Nati	National Annex NA (informative) Bibliography				
Fore	eword		7		
Intr	oductio	on	8		
1		e			
	_				
2		Normative references			
3	Tern	ns and definitions	9		
4	Context of the organization				
	4.1	Understanding the organization and its context			
	4.2	Understanding the needs and expectations of interested parties			
	4.3	Determining the scope of the indoor air quality management system			
	4.4	Indoor air quality management system	13		
5	Leadership				
	5.1	Leadership and commitment			
		5.1.1 General			
		5.1.2 Management representatives			
	5.2	Policy			
	5.3	Roles, responsibilities and authorities			
	5.4	Legal requirements and other requirements			
6	Planning				
	6.1	Actions to address risks and opportunities			
	6.2	Indoor air quality objectives and planning to achieve them			
	6.3	Indoor air quality aspects			
		6.3.1 General	16		
7	Supp	ort			
	7.1	Resources			
	7.2	Competence			
	7.3	Awareness			
	7.4	Communication			
	7.5	Documented information			
		7.5.2 Creating and updating			
		7.5.3 Control of documented information			
		7.5.4 Control of records			
		7.5.5 Indoor air quality management manual			
	7.6	Infrastructure and maintenance			
8	Opei	ration	20		
Ū	8.1	Operational planning and control			
	8.2	Planning indoor air quality			
	8.3	Purchases	21		
		8.3.1 Evaluation of suppliers			
		8.3.2 Information on purchases			
	0.4	8.3.3 Verification of purchases			
	8.4	Operational control	21		

DIN ISO 16000-40:2019-12

9	Performance evaluation		21
	9.1	Monitoring, measurement, analysis and evaluation	21
	9.2	Internal audit	
	9.3	Management review	
10	Improvement		23
		Nonconformity and corrective action	
		Continual improvement	
Annex A (informative) Identifying and assessing indoor air quality aspects			
Anne	x B (inf	ormative) Identifying and assessing indoor air quality aspects: Descriptive	
system flowchart			
Biblio	Bibliography		

National foreword

International technical regulation pertaining to indoor air

This document (ISO 16000-40) has been prepared by Technical Committee ISO/TC 146 "Air quality", Subcommittee SC 6 "Indoor air", Working Group 24 "Indoor Air Quality management system" (Secretariat: DIN, Germany). The responsible German body involved in its preparation was *VDI/DIN-Kommission Reinhaltung der Luft (KRdL) — Normenausschuss* (VDI/DIN-Commission on Air Pollution Prevention (KRdL) — Standards Committee), Section IV "Environmental Measurement Techniques".

National technical rules pertaining to indoor air

The DIN ISO 16000 series and DIN EN ISO 16000 series consist of the following parts, under the general title *Indoor air*:

- DIN EN ISO 16000-1, General aspects of sampling strategy
- DIN EN ISO 16000-2, Sampling strategy for formaldehyde
- DIN ISO 16000-3, Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air — Active sampling method
- DIN ISO 16000-4, Determination of formaldehyde Diffusive sampling method
- DIN EN ISO 16000-5, Sampling strategy for volatile organic compounds (VOCs)
- DIN ISO 16000-6, Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS-FID
- DIN EN ISO 16000-7, Sampling strategy for determination of airborne asbestos fibre concentrations
- DIN ISO 16000-8, Determination of local mean ages of air in buildings for characterizing ventilation conditions
- DIN EN ISO 16000-9, Determination of the emission of volatile organic compounds from building products and furnishing — Emission test chamber method
- DIN EN ISO 16000-10, Determination of the emission of volatile organic compounds from building products and furnishing Emission test cell method
- DIN EN ISO 16000-11, Determination of the emission of volatile organic compounds from building products and furnishing — Sampling, storage of samples and preparation of test specimens
- DIN EN ISO 16000-12, Sampling strategy for polychlorinated biphenyls (PCBs), polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and polycyclic aromatic hydrocarbons (PAHs)
- DIN ISO 16000-13, Determination of total (gas and particle-phase) polychlorinated dioxin-like biphenyls (PCBs) and polychlorinated dibenzo-p- dioxins/dibenzofurans (PCDDs/PCDFs) — Collection on sorbent-backed filters

- DIN ISO 16000-14, Determination of total (gas and particle-phase) polychlorinated dioxin-like biphenyls (PCBs) and polychlorinated dibenzo-p-dioxins/dibenzofurans (PCDDs/PCDFs) — Extraction, clean-up and analysis by high-resolution gas chromatography/mass spectrometry
- DIN EN ISO 16000-15, Sampling strategy for nitrogen dioxide (NO_2)
- DIN ISO 16000-16, Detection and enumeration of moulds Sampling by filtration
- DIN ISO 16000-17, Detection and enumeration of moulds Culture-based method
- DIN ISO 16000-18, Detection and enumeration of moulds Sampling by impaction
- DIN ISO 16000-19, Sampling strategy for moulds
- DIN ISO 16000-20, Detection and enumeration of moulds Determination of total spore count
- DIN ISO 16000-21, Detection and enumeration of moulds Sampling from materials
- DIN ISO 16000-24, Performance test for evaluating the reduction of volatile organic compound concentrations by sorptive building materials
- DIN ISO 16000-25, Determination of the emission of semi-volatile organic compounds by building products — Micro-chamber method
- DIN EN ISO 16000-26, Sampling strategy for carbon dioxide (CO_2)
- DIN ISO 16000-27, Determination of settled fibrous dust on surfaces by SEM (scanning electron microscopy) (direct method)
- DIN ISO 16000-28, Determination of odour emissions from building products using test chambers
- DIN ISO 16000-29, Test methods for VOC detectors
- DIN ISO 16000-30, Sensory testing of indoor air
- DIN ISO 16000-31, Measurement of flame retardants and plasticizers based on organophosphorus compounds Phosphoric acid ester
- DIN EN ISO 16000-32, Investigation of buildings for the occurrence of pollutants
- DIN ISO 16000-33, Determination of phthalates with gas chromatography/mass spectrometry (GC-MS)
- DIN ISO 16000-34, Strategies for the measurement of airborne particles
- DIN ISO 16000-36, Test method for the reduction rate of airborne bacteria by air purifiers using a test chamber
- DIN ISO 16000-37, Measurement of PM2,5 mass concentration
- DIN ISO 16000-38, Determination of amines in indoor and test chamber air Active sampling on samplers containing phosphoric acid impregnated filters
- DIN ISO 16000-39, Determination of amines Analysis of amines by (ultra-) high-performance liquid chromatography coupled to high resolution or tandem mass spectrometry