A 1 Definition of Durability and general product description

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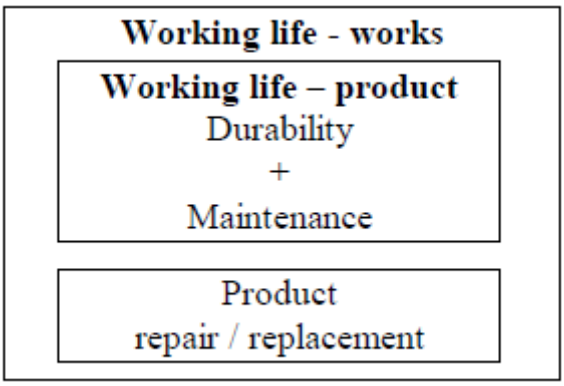

01-01 Working life guidance paper F

Working life (works) **-** the period of time during which the performance of the works will be maintained at a level compatible with the fulfilment of the Essential Requirements.

Working life (product) **-** the period of time during which the performance of a product will be maintained at a level that enables a properly designed and executed works to fulfil the Essential Requirements (i.e. the essential characteristics of a product meet or exceed minimum acceptable values, without incurring major costs for repair or replacement). The working life of a product depends upon its inherent durability and normal maintenance.

A clear distinction has to be made between the assumed economically reasonable working life for a product (also called: *design working life*), which underlies the assessment of durability in technical specifications, and the actual working life of a product in a works. The latter depends on many factors beyond the control of the producer, such as design, location of use (exposure), installation, use and maintenance. **The assumed working life can thus not be interpreted as being a guarantee given by the producer.**

01 – 02 working life works and working life product

		Bauteil / Bauteilschicht	Lebenserwartung von - bis [a]	mittlere Lebens-erwartung [a]
		Weichholz	30 - 50	40
		PVC, Linoleum	15 - 25	20
		Textil	8 - 20	10
		Versiegelungen, Lack	8 - 10	8
		Imprägnierungen, Öl, Wachs	3 - 5	4
	28.	Deckenbekleidungen, abgehängte Decken		
		Holz, Holzwerkstoff	60 - 80	70
		Gipskarton, Mineralfaserplatten, Kunststoff, Aluminium	30 - 60	45
		Unter- und Abhängekonstruktion - Metall - Holz	 50 - 100 30 - 60	 70 50
Nichttragende Konstruktion, Dächer	29.	Flachdachabdichtungen		
		ohne Schutzschichten	15 - 30	20
		mit Schutzschichten (bekiest, begrünt)	20 - 40	30
	30.	Dachentwässerung, innenliegend		
		Innenabläufe aus Edelstahl, Kunststoff, Guss	25 - 50	40
		Innenliegende Rinnen, Zinkblech, Kunststoff	20 - 30	25
	31.	Lichtkuppeln	20 - 30	25
	32.	Dacheindeckungen geneigter Dächer		
		Zinkblech	25 - 40	35
		Faserzementwellplatten, kleinformatige Faserzementplatten	30 - 50	40
		Dachziegel, Betondachsteine	40 - 60	50
		Schieferplatten	60 - 100	70
		Kupfer	40 - 100	50
	33.	Dachentwässerung, außenliegend		
		Kunststoff	15 - 30	20
		Zinkblech	20 - 30	25
		Kupferblech	40 - 100	50
	34.	Wärmedämmung	25 - 35	30

02 – 01 expected working life of thermal insulation

Auswahl von Dauerhaftigkeiten für Dämmungen in Bauteilen

Kostengruppe			Bauteil	Durchschnittswert (in Jahren)	durch Gütesicherung optimierter Wert (in Jahren)
332			**Nichtragende Außenwände**		
	332.3		Dämmung		
		332.3.1	Zellulosefasern	35	50
		332.3.2	Mineralwolle	40	50
335			**Außenwandbekleidung, außen**		
	335.5		Wärmedämmung, hinterlüftet		
		335.5.1	Holzfasern	30	50
		335.5.2	Kork, expandiert	50	60
		335.5.3	Mineralwolle	40	50
	335.6		Wärmedämmung, Verbundsystem		
		335.6.1	Holzfasern	20	30
		335.6.2	Kork, expandiert	40	40
		335.6.3	Kalziumsilikatschaum	40	40
		335.6.4	Mineralwolle	30	30
		335.6.5	Polystyrol, expandiert (EPS)	30	30
363			**Dachbeläge**		
	363.6		Dachdämmung, Warmdach		
		363.6.1	Zellulosefasern	30	50
		363.6.2	Mineralwolle	40	60
		363.6.4	Polystyrol, expandiert (EPS)	40	50
	363.7		Dachdämmung, Umkehrdach		
		363.7.1	Schaumglas	80	80
		363.7.2	Polystyrol, expandiert (EPS)	30	30

04 - 01 Examples of working life of thermal insulation products

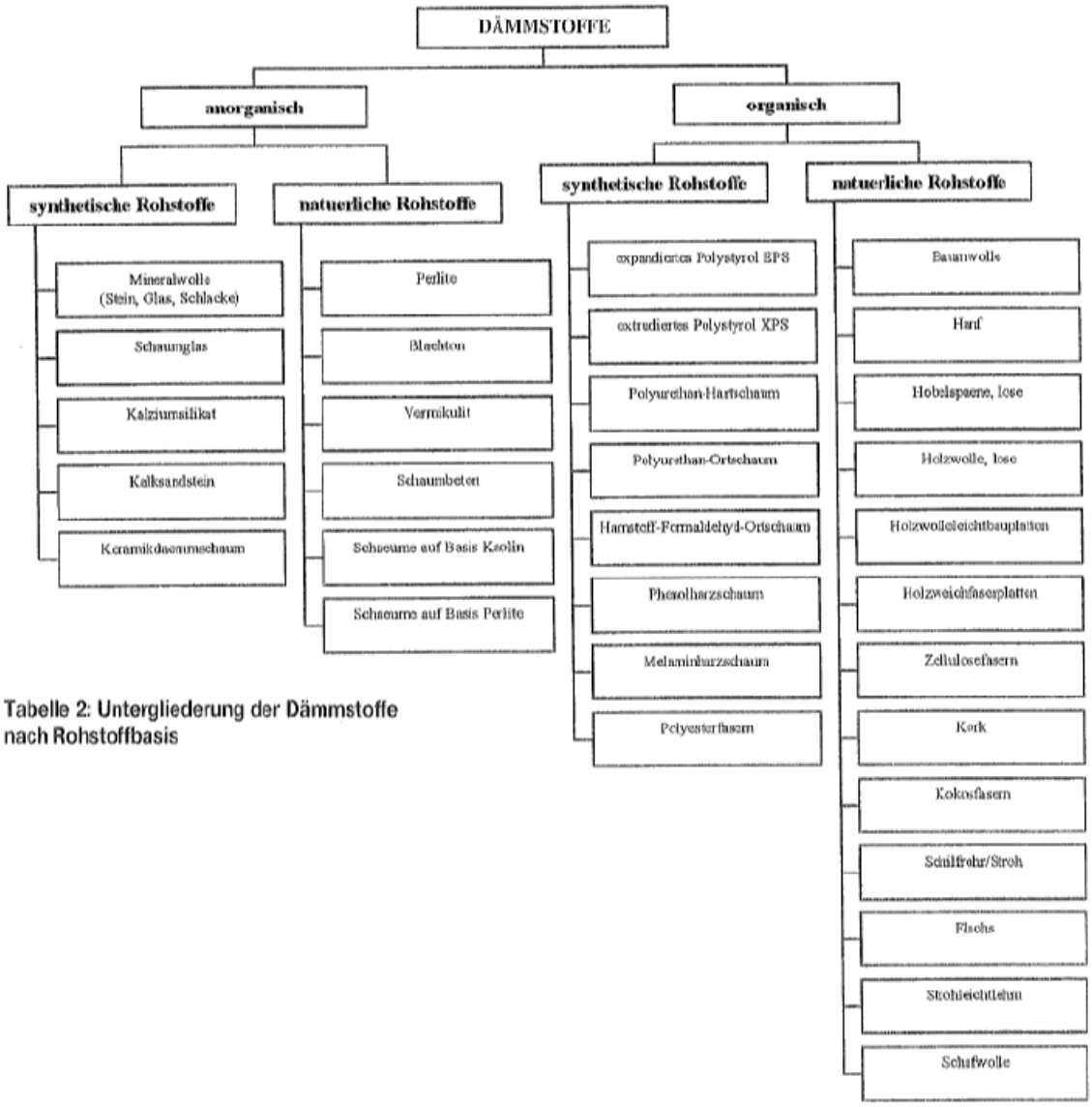

Tabelle 2: Untergliederung der Dämmstoffe nach Rohstoffbasis

42 - 01 Overview of thermal insulation products based on raw material