

Recommended requirements for all roofing and sealing sheets by ddDach[®] (2005)

Roofing and sealing sheet: Materialgroup: _____, Thickness: \geq _____ mm, with following material properties:		required minimum value	Value of the sheet	perform yes/no
A.	LOW TEMPERATURE FOLDING acc. to EN 495-5 Requirements: no rupturing or cracking at	- 30°C		
B.	RESISTANCE TO IMPACT acc. to EN 12 691 Requirements: impenetrable, drop mass, weight: 500 g, method A = hard metall support. Height of fall:	\geq 700 mm		
C.	HAIL RESISTANCE acc. to EN 13 583 Requirements: damaging velocity - hard/soft support	> 25 m/s		
D.	ACTION OF CIGARETTE HEAT acc. to EN 1399 Requirements:	impenetrable		
E.	STRAIGHTNESS AND FLATNESS acc. to EN 1848-2 Requirements: deviation of straightness(g) deviation of flatness (p)	< 30 mm < 10 mm		
F.	HOT AIR WELDING Welding window according to ERNST 1999 (attached):	yes/no		
G.	BEHAVIOUR AFTER COATING WITH GREASE acc. to ERNST (1992) Requirements: absolute elongation* acc. to EN 12311-2 change elongation compared to new material	\geq 200 % \leq 25 % relative*		
H.	BEHAVIOUR AFTER STORAGE IN HOT WATER acc. to EN 1847 Hot water temperature: 50°C, Duration: 16 weeks, Requirements: absolute elongation* acc. to EN 12311-2 change elongation compared to new material	\geq 200 % \leq 25 % relative*		
I.	BEHAVIOUR AFTER STORAGE IN LIMEWASH acc. to EN 1847 Hot water temperature: 50°C, Duration: 16 weeks, Requirements: absolute elongation* acc. to EN 12311-2 change of elongation compared to new material	\geq 200 % \leq 25 % relative*		
J.	BEHAVIOUR AFTER STORAGE IN AN ACID SOLUTION acc. to EN 1847 , Hot water temperature: 50°C, Duration: 16 weeks, Requirements: absolute elongation* acc. to EN 12311-2 change elongation compared to new material	\geq 200 % \leq 25 % relative*		
K.	RESITANCE AGAINST MICROORGANISMS acc. to EN-ISO 846 , pretreatment before biological test: acc. to EN 1847: Hot water: 50°C, time 14 days, soil-burial test: time 32 weeks, Requirements: Weight loss in contrast to new material	\leq 4 %		
L.	HYDROLYTIC RESISTANCE acc. to ERNST (1992) Requirements: change elongation to new material Weight loss compared to new material	\leq 25 % relative* < 3 %		
M.	OZONE RESISTANCE acc. to EN 1844 Requirements: no cracks at 6 x magnification	no cracking		
N.	LONG THERM ARTIFICAL AGEING acc. to EN 1296 , time 24 weeks, 70°C, Requirements: change of mass compared to new material change elongation to new material	\leq 5 % \leq 25 % relative*		
O.	ARTIFICAL AGEING BY L. TH. EXPOSURE TO UV RADIATION acc. to EN 1297 Requirements: - unballasted membranes 5.000 h - ballasted membranes 3.000 change of mass: ballasted and unballasted membranes	Scale 0 Scale 0 \leq 3 %		
P.	FISHTEST acc. to OECD »Fish Acute Toxity Test« , Procedure 203, EEC directive 92/69EEC, DIN 38 412 L 31, Description: ERNST(1999) , Testfish: <i>Poecilla reticulata</i> (Guppy), Requirements:	> 24 h		
Q.	COLD CONTRACTION acc. to ERNST (1999) , Requirements:	< 200 kg/m		
R.	RESISTANCE TO ROOT PENETRATION acc. to FLL-Test (1999) : Requirements: resistance against root and rhizome penetration (attached):	yes/no		
S.	DECLARATION ECOLOGICAL CHARACTERISTICS acc. to SIA 493 (att.):	yes/no		
elongation* absolute for unreinforced and bonded sheets and membranes with glass mesh reinforcement.				
In signing this document, the manufacturer confirms that the values given above can be verified by an officially recognized, public test laboratory or a testing institution in keeping with the international standards of quality management and quality systems (ISO 9001).				
Manu- facturer	The specified values apply to the product trade name/material:		Company stamp and sign:	
	Product/Article: _____ / _____ CE-mark according attached technical data sheet			