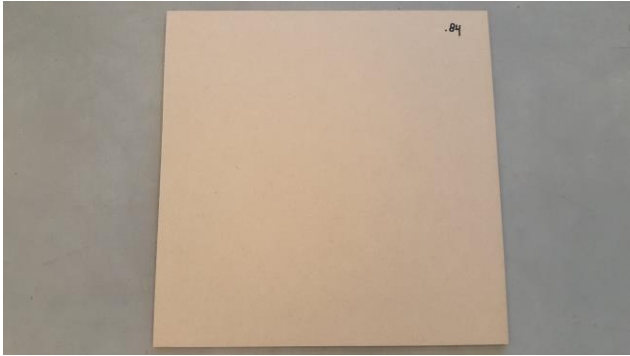


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<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	27.09.2018		
<b>Auftraggeber:</b> <i>Client:</i>	Unifloor Underlay Systems, Arnsbergstraat 4, 7418 EZ Deventer, The Netherlands				
<b>Prüfgegenstand:</b> <i>Test item:</i>	Underlayment				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	Marathon Premium 8 mm				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Classification of burning behaviour				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	EN 13501-1:2007+ A1:2009 Classification of burning behaviour <i>Test methods: Ignitability of products subjected to direct impingement of flame (EN ISO 11925-2:2010/C1:2011) and determination of the burning behaviour using a radiant heat source (EN ISO 9239-1:2010)</i>				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	01.10.2018				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	MT18-117021.84				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	01.10.2018 - 26.10.2018				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Externally accredited Test Laboratory				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	Externally accredited Test Laboratory				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Siehe Sonstiges / See Other				
<b>geprüft von / tested by:</b>	<b>kontrolliert von / reviewed by:</b>				
30.10.2018 M.A. van de Vlekkert 	30.10.2018 R. Boerboom 				
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>		Test result: See clause 4 on page 5.			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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**Liste der verwendeten Prüfmittel**  
*List of used test equipment*

<b>Prüfmittel</b> <i>Test equipment</i>	<b>Prüfmittel-Nr. / ID-Nr.</b> <i>Equipment No. / ID-No.</i>	<b>Nächste Kalibrierung</b> <i>Next calibration</i>
Flooring Radiant Panel	Test equipment of external Laboratories are not listed.	
Anemometer	Test equipment of external Laboratories are not listed.	
Scales	A00769	14.09.2019
Thickness gauge	A00904	17.01.2020
Metal ruler 1	A01759	12.12.2019
Metal ruler 2	A01558	12.01.2019
Metal ruler 3	A01567	20.09.2019
Vertical ignitability test cabinet	A01576	-
Stopwatch	A01699	11.12.2020
Metal reference plate	A00813	12.12.2019

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**Produktbeschreibung**  
**Product description**

Product identity	Marathon Premium 8 mm*	Total thickness (mm)	8*
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\* applicants declaration

Figure 1, Picture of the received sample

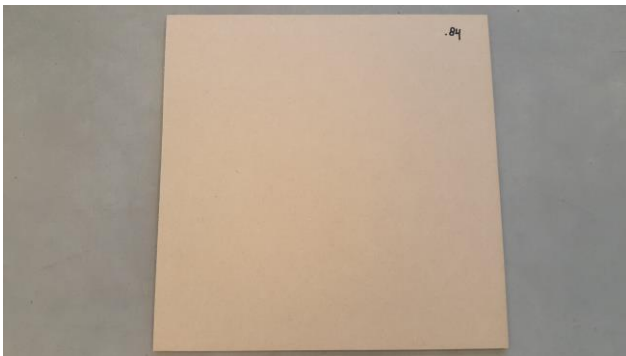
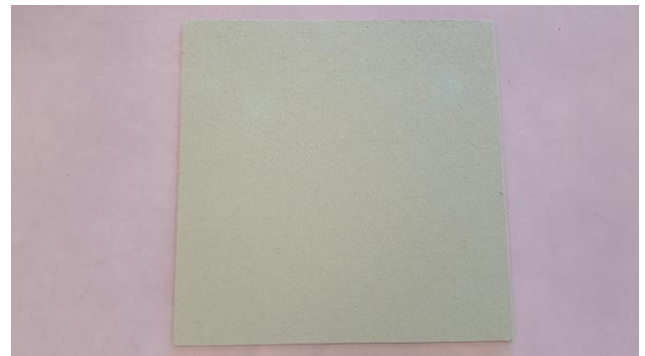


Figure 2, Picture of the received sample



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Absatz	<b>EN 13501-1:2007+ A1:2009</b>	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

1	<b>Construction data (indicative) of the product obtained by the testlaboratory after pre-conditioning</b> 01-4.3-P.02-322-WI01		
	Test condition	23 ± 2°C and 50 ± 4% relative humidity	
	Pre conditioning, duration	≥ 48 h & until constant mass is achieved	
	Total thickness (mm)	8.4	
	Total mass (g/m <sup>2</sup> )	4077	
	Density (kg/m <sup>3</sup> )	487	
	<i>Note: the determined construction data are used for determination of constant mass, the used testmethod is not in accordance with the determination of construction data according the specification standard. Therefore the testresults should be handled as indicative.</i>		

2	<b>Ignitability of products subjected to direct impingement of flame</b> EN ISO 11925-2:2010/C1:2011			
	Date of testing	02.10.2018		
	Pre-conditioning, climate	23 ± 2°C and 50 ± 4% relative humidity		
	Pre-conditioning, duration	≥ 48 h & until constant mass is achieved		
	Description of substrate	Fibre cement board, thickness 8 ± 2 mm, density 1800 ± 200 kg/m <sup>3</sup> conforming to EN 13238:2010		
	Flame application	Surface		
	Flame application time (s)	15		
	Requirements according EN 13501-1:2007+A1:2009	See clause 5		
	<b>Test result(s)</b>			
	Orientation*	N/A		
	Test sample	1	2	3
	Ignition of the sample	Yes	Yes	Yes
	Flame tip reached 150 mm above the application point	<b>No</b>	<b>No</b>	<b>No</b>
	Duration after application when the flame tip reached the 150 mm above the application point (s)	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
	Extent of damaged area, length (mm)	55	52	54
	Extent of damaged area, width (mm)	12	12	12
	Material melts	No	No	No
	Shrinks away from flame without being ignited	No	No	No
	After glowing	No	No	No
Flaming droplets/particles which caused ignition of filter paper	No	No	No	
<i>* No length or width direction applicable.</i>				

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Absatz	<b>EN 13501-1:2007+ A1:2009</b>	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

<b>3</b>	<b>Determination of the burning behaviour using a radiant heat source</b> <i>EN ISO 9239-1:2010</i>				
	Date of testing	26.10.2018			
	Pre-conditioning, climate	23 ± 2°C and 50 ± 4% relative humidity			
	Pre-conditioning, duration	≥ 48 h & until constant mass is achieved			
	Description of substrate	Fibre cement board, thickness 8 ± 2 mm, density 1800 ± 200 kg/m <sup>3</sup> conforming to EN 13238:2010			
	Fixing method	None, samples are tested loose laid on the substrate			
	Requirements according EN 13501-1:2007+ A1:2009	See clause 5			
	<b>Test result(s)</b>				
	Test sample	1	2	3	Mean
	Orientation*	N/A	N/A	N/A	N/A
	Flame spread (cm)	58	58	59	<b>58</b>
	CHF / HF-30 (kW/m <sup>2</sup> )	2.9	2.9	2.8	<b>2.9</b>
	Smoke production (%.min)	175	165	155	<b>165</b>
* No length or width direction applicable. Observations: Specimen 1, 2, and 3: Extinguished manually after the end of the test duration.					

<b>4</b>	<b>Classification of burning behaviour</b> <i>EN 13501-1:2007+A1:2009</i>	
	The product, <b>Marathon Premium 8 mm</b> , in relation to its reaction to fire behaviour is classified:	<b>E<sub>fl</sub></b>
	The additional classification in relation to smoke production is:	<b>s1</b>
	<b>Reaction to fire classification : E<sub>fl</sub> – s1</b>	
	Field of application <ul style="list-style-type: none"> <li>- As a floor covering in accordance with the nominal product parameters given on page 3.</li> <li>- On end use substrates of classes A1 and A2-s1,d0 according to EN 13238:2010.</li> </ul>	
	Statements <ul style="list-style-type: none"> <li>- This document does not represent type approval or certification of the product.</li> <li>- The test results only relate to the behaviour of the test specimens of the examined product under the -particular conditions of the test in laboratory conditions; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.</li> <li>- The validity of this report will expire directly after alterations or modifications of the examined product (combination)(s) and/or the criteria.</li> </ul>	

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Absatz	EN 13501-1:2007+ A1:2009	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

5	<b>Potential classes of reaction to fire performance for floorings</b>			
	EN 13501-1:2007+A1:2009			
	Class	Test method(s)	Classification criteria	
	A1 <sub>fi</sub>	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30 \text{ °C}$ ; and $\Delta m \leq 50 \%$ ; and $t_f = 0$ (i.e. no sustained flaming)	-
		EN ISO 1716	$PCS \leq 2.0 \text{ MJ/kg}^a$ and $PCS \leq 2.0 \text{ MJ/m}^2^b$ and $PCS \leq 1.4 \text{ MJ/m}^2^c$ and $PCS \leq 2.0 \text{ MJ/kg}^d$	-
	A2 <sub>fi</sub>	EN ISO 1182 <sup>a</sup> or	$\Delta T \leq 50 \text{ °C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$	-
		EN ISO 1716 and	$PCS \leq 3.0 \text{ MJ/kg}^a$ and $PCS \leq 4.0 \text{ MJ/m}^2^b$ and $PCS \leq 4.0 \text{ MJ/m}^2^c$ and $PCS \leq 3.0 \text{ MJ/kg}^d$	-
		EN ISO 9239-1 <sup>e</sup>	$CHF \geq 8.0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	B <sub>fi</sub>	EN ISO 9239-1 <sup>e</sup> and	$CHF \geq 8.0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
		EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
	C <sub>fi</sub>	EN ISO 9239-1 <sup>e</sup> and	$CHF \geq 4.5 \text{ kW/m}^2$	Smoke production <sup>g</sup>
		EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
	D <sub>fi</sub>	EN ISO 9239-1 <sup>e</sup> and	$CHF \geq 3.0 \text{ kW/m}^2$	Smoke production <sup>g</sup>
EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s		$F_s \leq 150 \text{ mm}$ within 20 s	-	
E <sub>fi</sub>	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-	
F <sub>fi</sub>	No performance determined			
<sup>a</sup>	For homogeneous products and substantial components of non-homogeneous products.			
<sup>b</sup>	For any external non-substantial component of non-homogeneous products.			
<sup>c</sup>	For any internal non-substantial component of non-homogeneous products.			
<sup>d</sup>	For the product as a whole.			
<sup>e</sup>	Test duration = 30 min.			
<sup>f</sup>	Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).			
<sup>g</sup>	s1 = Smoke $\leq 750 \%$ minutes; s2 = not s1.			
<sup>h</sup>	Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.			