

Mevr. Tineke Verbruggen
BRU TEXTILES NV
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2550 KONTICH

your delivery of
2008-02-08

your reference

our reference
PVH/2280

date
Zwijnaarde, 2008-03-12

Analysis Report 61449/B

Required tests :

IMO Fire Test Procedures (1998) - Resolution A.471 (XII)
Recommendation on test method for determining the resistance to flame of vertically supported textiles and films

Identification number	Information given by the client	Date of receipt
T801661	Calais 06 - Fusion	2008-02-14

Pros Van Hoeyland
order responsible

For further information, please contact our sectorial adviser Pros Van Hoeyland

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Reference : T801661 - Calais 06 - Fusion

IMO Fire Test Procedures (1998) - Resolution A.471 (XII)
Recommendation on test method for determining the resistance to flame of vertically supported textiles and films

End of tests: 11 March 2008

test specimens	orientation	: vertical
	dimensions	: 220 mm x 170 mm
burner	gas	: commercial propane
	flame - vertical reach	: 40 mm
	flame application time	: 5 s - 15 s

- The test specimens have not been cleaned nor submitted to an accelerated ageing procedure.

determination of the worst testing condition: surface or edge ignition
face = back

length

	surface face		surface back		edge	
	1	2	1	2	1	2
flame application time (s)	5	15	5	15	5	15
afterflame time (s)	0	0			0	0
afterglow time (s)	0	0			0	0
surface flash	no	no			no	no
edge reached	no	no			no	no
ignition cotton wool	no	no			no	no
maximum damaged length (mm)	62	83			92	94

no sustained ignition → testing continued under conditions showing the greatest damaged length = edge ignition 15 s

width

	surface face		surface back		edge	
	1	2	1	2	1	2
flame application time (s)	5	15	5	15	5	15
afterflame time (s)	0	0			0	0
afterglow time (s)	0	0			0	0
surface flash	no	no			no	no
edge reached	no	no			no	no
ignition cotton wool	no	no			no	no
maximum damaged length (mm)	80	83			54	72

no sustained ignition → testing continued under conditions showing the greatest damaged length = surface ignition 15 s

Reference : T801661 - Calais 06 - Fusion

worst testing conditions

length - edge - flame application time 15 s

	length				
	1	2	3	4	5
flame application time (s)	15	15	15	15	15
afterflame time (s)	0	0	0	0	0
afterglow time (s)	0	0	0	0	0
surface flash	no	no	no	no	no
edge reached	no	no	no	no	no
ignition cotton wool	no	no	no	no	no
maximum damaged length (mm)	94	85	95	70	84

width - surface - flame application time 15 s

	width				
	1	2	3	4	5
flame application time (s)	15	15	15	15	15
afterflame time (s)	0	0	0	0	0
afterglow time (s)	0	0	0	0	0
surface flash	no	no	no	no	no
edge reached	no	no	no	no	no
ignition cotton wool	no	no	no	no	no
maximum damaged length (mm)	83	93	71	72	75

Proposed criteria for curtains and drapes (Resolution A.563(14) - Appendix 3)

1. Afterflame time ≤ 5 s for any specimen tested with face ignition.
2. No flame propagation to the edges for any specimen.
3. No ignition of the cotton wool for any specimen
4. Average char length ≤ 150 mm in any of the baches tested with face or edge ignition.
5. No occurrence of a surface flash more than 100 mm from the point of ignition

The fabric passes the proposed criteria for curtains and drapes.