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8510 MARKE

your delivery of
2010-11-09

your reference

our reference
PVH/10932

date
Zwijnaarde, 2010-12-06

Analysis Report 77014

Required tests :

IMO Fire Test Procedures Code, Annex 1 part 7 (1998)
Resolution A.471 (XII) / Resolution A.563(14)
Test for vertically supported textiles and films

Identification number	Information given by the client	Date of receipt
T012237	16300NF - 16310NF	2010-11-09

Pros Van Hoeyland
order responsible

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

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ISO 17025



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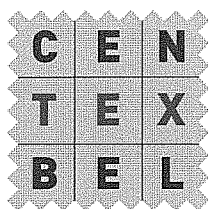
Fin. Acc. 210-0472965-45

IBAN BE44 2100 4729 6545

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Reference : T012237 - 16300NF - 16310NF

IMO Fire Test Procedures Code, Annex 1 part 7 (1998)
Resolution A.471 (XII) / Resolution A.563(14)
Test for vertically supported textiles and films

End of tests: 3 December 2010

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.

Conditioning of the test specimens
 At least 24 hours at (20 ± 5)°C and (65 ± 5)% RH

determination of the worst testing condition: surface or edge ignition

length

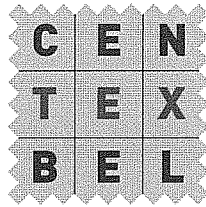
	surface		edge	
	1	2	1	2
flame application time (s)	5	15	5	15
afterflame time (s)	0	0	0	0
afterglow time (s)	0	0	0	0
surface flash	no	no	no	no
edge reached	no	no	no	no
ignition cotton wool	no	no	no	no
maximum damaged length (mm)	38	44	22	55

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

width

	surface		edge	
	1	2	1	2
flame application time (s)	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)	30	46	31	50

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



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worst testing conditions

length - edge - flame application time 15 s

	length					average
	1	2	3	4	5	
flame application time (s)	15	15	15	15	15	
afterflame time (s)	0	0	40	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)	55	36	94	45	38	54

width - edge - flame application time 15 s

	length					average
	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)	50	54	64	55	50	55

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 tested with face ignition.
3. No ignition of the cotton wool for any specimen
4. Average char length ≤ 150 mm in any of the batches 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.

Performed under accreditation in the fire lab under the responsibility of Pros Van Hoeyland.