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your delivery of	**your reference**	**our reference**	**date**
2010-04-15	SO-1056966	PVH/3929	Zwijnaarde, 2010-04-26

Analysis Report 74046/B

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
T004527	TAVIRA	2010-04-15

Pros Van Hoeyland
order responsible

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

Reference : T004527 - TAVIRA

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: 23 April 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 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	2	0
afterglow time (s)	0	0	0	0	0	0
surface flash	no	no	no	no	no	no
edge reached	no	no	no	no	no	no
ignition cotton wool	no	no	no	no	no	no
maximum damaged length (mm)	37	42	35	51	35	75

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	0	9
afterglow time (s)	0	0	0	0	0	0
surface flash	no	no	no	no	no	no
edge reached	no	no	no	no	no	no
ignition cotton wool	no	no	no	no	no	no
maximum damaged length (mm)	37	50	39	46	40	70

Reference : T004527 - TAVIRA

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	2
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)	75	62	58	57	72

width - edge - flame application time 15 s

	width				
	1	**2**	**3**	**4**	**5**
flame application time (s)	15	15	15	15	15
afterflame time (s)	9	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)	70	48	58	70	72

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

1. Afterflame time ≤5s 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 occurance 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.