Classification of Fire Performance of Wall and Ceiling Lining Materials

Using the Method of Kokkala, Thomas and Karlsson

Reference: Kokkala, M.A. Thomas, P.H. and Karlsson, B. Rate of Heat Release and Ignitability Indices for Surface Linings. Fire and Materials Vol 17, 209-216 (1993)

Instructions:

User input areas are those shaded in light-blue. Before entering or pasting new data into the two columns, it is best to clear any existing data by clicking on the 'Clear Data' button. If necessary, formatting of the cells can be restored by clicking on the 'Formatting' button. Copy data from column U (time) of the csv file and paste into the time column. Copy data from column I (HRR) of the csv file and paste into the Rate of Heat Release column.

Material Identification/Description:		Wilsonart Designer White laminate	
Clear Data		Formatting	
NPUT DATA BE	LOW		
Data from AS/N		Time to Ignition (sec) =	54.0
Test Heat Flux =	: 50 kW/m²	, ,	
Time	Rate of Heat Release	Ignitability Index (1/min) =	1.11
0	0.203464		
3	0	End of Test (sec) =	22
6 9	0 526022	Pote of Heat Pologoe Index (m-0.24)	2201
12	0.526922 0.419971	Rate of Heat Release Index (m=0.34) =	2281.
15	0.344383	10 minute limit =	620
18	0.956841		020
21	1.22679	Rate of Heat Release Index (m=0.93) =	1189.
24	1.77643		
27	3.11355	2 minute limit =	229
30	4.08426	12 minute limit =	146
33	4.56864		
36	5.33018	THE DOA OF ASSISTED TION COOLING.	
39	4.91525	THE BCA CLASSIFICATION GROUP IS:	
42	4.94587		*
45	6.2511		
48	7.09565		*
51	18.7463		*
54	50.2377		Group 1
57	87.7457		
60	114.716	This method assumes that no materials lead to flashover	
63	125.938	after 12 and before 20 minutes.	
66	128.09	Materials that are predicted not to flashover	
69 72	125.711 119.736	within 12 minutes are put into Group 1.	
75	114.38		
78	107.206		
81	100.714		
84	93.6923		
87	85.2474		
90	76.4827		
93	67.4173		
96	58.9049		
99 102	50.7262 43.8335		
105	37.2933		