



Fire Resistance – Ulrich Fabrication

Test Controls - With an independent observer present, a heat test was conducted on an Ulrich 3624 Planfile Cabinet. The cabinet was loaded with a full compliment of folders and approximately 1,000 sheets of paper measuring 24" x 36". Three thermocouples were placed inside the cabinet located 7" from the top, end and front panel of the cabinet. The cover was closed and locked. Ambient temperature was 76 degrees Fahrenheit. The cabinet was placed in an oven that was preheated to 550 degrees Fahrenheit. Temperature readings were then recorded remotely. For comparison, a single wall, non-insulated filing cabinet was subjected to the same test, under the same conditions.

Test Conclusions - At the end of the hour test, the interior of the Ulrich 3624 Planfile Cabinet was 271 degrees Fahrenheit. The maximum safe temperature for records is 300 degrees Fahrenheit. The interior temperature of the non-insulated, single wall file was higher in 10 minutes than the Ulrich 3624 Cabinet was after the full one hour. Furthermore, the non-insulated, single wall file exceeded the maximum safe temperature for records after just 12 minutes. The data below is offered for your evaluation. Oven temperature was 550 degrees Fahrenheit and all recorded temperatures are in Fahrenheit.

Time elapsed in Minutes	Ulrich 3624 Planfile Cabinet	Non-Insulated, single wall file
0	76 ⁰	76 ⁰
2	76 ⁰	104 ⁰
4	76 ⁰	158 ⁰
6	81 ⁰	204 ⁰
8	89 ⁰	243 ⁰
10	100 ⁰	280 ⁰
12	116 ⁰	308 ⁰
14	120 ⁰	Maximum safe temperature for documents is 300 ⁰
16	131 ⁰	
18	143 ⁰	
20	147 ⁰	
22	155 ⁰	
24	164 ⁰	
26	172 ⁰	
28	180 ⁰	
30	189 ⁰	
32	198 ⁰	
34	204 ⁰	
36	210 ⁰	
38	216 ⁰	
40	221 ⁰	
42	227 ⁰	
44	231 ⁰	
46	237 ⁰	
48	241 ⁰	
50	248 ⁰	
52	252 ⁰	
54	256 ⁰	
56	262 ⁰	
58	266 ⁰	
60	271 ⁰	