

March 27, 1963

TO: MR. H. E. HOWELL

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SUBJECT: COMPETITIVE AUDIT COMPILATION, MARCH 1963.

Attached is the compilation of audits of competitive materials received and tested from November 1962 to March 1963. The figures reported for B.E.H are the weighted averages for the full year 1962. It cannot be emphasized too strongly that the values reported for competitive materials are individuals, not averages. These individual values may overstate or understate the normal quality level of each material by some amount depending on the normal range of variation of each particular process. Comparisons between B.E.H averages and competitive individual values should not be made, except in a very general way.

These general observations can be made:

1. All manufacturers except Mundet and B.E.H can produce material good to 1350° F. under soaking heat.
2. Compressive strengths for Thermobestos are amazingly high.
3. Mundet, Pabco, B.E.H and Carey have either reduced fiber quality or quantity as shown by significantly lower impact strengths.

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Material	Lot No.	Thickness	Weight	Area	Volume	Modulus	Poisson's Ratio	Strength	Elongation	Impact	Other
Steel, A36	11-44	12.07	32.57	12.68	12.02	10.97	12.76	11.07	12.06	12.23	
Steel, A36	65.5	27.0	27.8	66.0	24.6	29.2	78.2	63.7	79.2	180.8	
Steel, A36	0.50	0.63	0.56	0.50	0.56	0.70	0.82	0.70	0.46	0.69	
Steel, A36	5.7	5.2	7.0	6.3	6.8	8.5	10.5	7.6	6.1	11.5	
Steel, A36	0.72	0.76	0.70	0.66	0.59	1.15	1.29	0.68	1.06	2.42	
Steel, A36	1.06	1.06	1.16	0.92	2.00	1.53	5.00	0.83	1.00	7.11	
Steel, A36	1.93	0.7	1.76	1.00	2.62	1.80	6.90	0.7	1.01	12.8	
Steel, A36	1.5	17.4	12.2	25.4	3.8	14.0	15.1	32.1	16.0	16.4	
Steel, A36	32.0	32.6	28.8	40.8	8.3	14.0	23.0	46.1	32.0	2.1	
Steel, A36	7.5	6.3	8.0	7.8	1.3	2.5	2.8	1.2	2.4	0.6	
Steel, A36	8.7	6.3	10.2	9.7	9.0	0.0	8.8	7.0	8.3	1.1	
Steel, A36	-	9.0	10.2	9.6	10.9	9.5	9.3	8.6	9.2	5.5	
Steel, A36	-	-	10.7	10.8	11.0	10.8	9.5	8.6	9.9	2.9	
Steel, A36	-	-	-	10.4	-	-	-	8.6	9.9	6.1	
Steel, A36	-	-	-	10.8	-	-	-	-	10.1	0.1	
Steel, A36	0.69	0.75	0.60	0.52	0.27	0.80	0.38	0.99	0.77	0.53	
Steel, A36	0.70	0.79	0.63	0.61	0.35	0.51	0.31	1.70	0.55	0.51	
Steel, A36	1.10	0.80	0.66	0.59	0.30	0.50	0.42	2.00	0.90	0.50	
Steel, A36	-	1.05	1.00	0.63	0.37	0.48	0.51	1.92	0.67	0.58	
Steel, A36	-	-	1.41	0.72	-	-	0.65	1.66	0.92	0.60	
Steel, A36	-	-	-	0.68	-	-	-	0.77	1.31	0.77	
Steel, A36	-	-	-	0.65	-	-	-	0.67	1.15	0.98	
Steel, A36	1.26	1.08	0.81	0.71	0.99	0.87	1.15	0.53	0.58	1.56	
Steel, A36	1.77	1.51	0.89	0.86	1.12	1.10	1.21	0.52	0.83	0.71	
Steel, A36	-	warped	1.12	1.19	1.70	1.23	1.38	0.63	1.18	0.62	
Steel, A36	-	-	2.69	1.30	warped	warped	3.09	1.31	1.25	1.02	
Steel, A36	-	-	-	1.78	-	-	-	warped	1.39	1.03	
Steel, A36	-	-	-	1.78	-	-	-	-	1.14	1.03	
Steel, A36	-	-	-	warped	-	-	-	-	1.60	1.72	
Detroit Edison 100 str.											
Busbie Test 010500											
Str. at top of 12000											
Flex. Str. PSI											
% of original											
Comp. Str. PSI											
% of original											
Comp. Str. PSI											
% of original											
Carman Mt. Xdo/1b.											
Apparent											
Failed at											
Failed for											