D. SATTERTHWAITE

PLAINTIFF'S EXHIBIT 14040.03

September 7, 1961

To: Mr. A. M. Ehret Trenton
E. R. Stevens "
M. M. Wilson "
H. E. Howell
M. A. Chomitz
R. F. McKee
R. R. Lamkin

RECEIVED
SEP 19 1961
BALDWIN-EHRET-HILL, INC.

SUBJECT: Competitive Audit Compilation - 1961

Attached is compilation of audits of competitive materials tested during 1961. The figures reported for B-E-H are the weighted averages for the period January through June. It must be emphasized that the values reported for competitive materials are individuals, not averages, and may over or under state the actual quality level by a variable degree depending on the range of normal variation inherent in the particular process. Comparisons between B-E-H averages and competitive individual values should not be made except in a very general way.

JOHN D. MCALLISTER

PLAINTIFF'S EXHIBIT
WV-05746

MC 422410 A 0031

Manufacturer / Material	B-E-H Thermasil	Mundet Tricalite	Pabco Caltherm	K&M Kaytherm	Ruberiod Calsilite	O-C Kaylo	J-M Thermo Bestos	Carey Carey Temp	O-C Kaylo 30
...sity PCF	11.47	11.99	12.69	12.58	12.88	13.38	12.26	12.05	13.54
...ex. Str. PSI	67.9	72.2	73.3	61.1	60.5	129.6	100.4	124.9	144.0
/D	5.9	6.0	5.8	4.9	4.6	9.7	8.2	9.6	10.6
/D2	.51	.50	.45	.39	.35	.72	.67	.86	.79
/D	.90	.84	.55	2.03	.99	1.25	1.06	.27	2.12
...ange Str. Lbs.	--	23.8	15.0	43.3	25.3	22.2	--	7.7	33.3
...mpr. Str. PSI 5% Def.	92	75	83	64	78	161	86	111	136
" " " 10% Def.	126	101	101	83	103	256	164	111	164
...rasible Loss % 10 Min.	16.6	14.4	15.0	9.8	15.6	4.4	27.7	8.6	5.2
" " " 20 Min.	33.3	29.0	29.4	58.2	34.2	9.0	51.8	51.5	7.7
...Loss % 220°F	--	1.9	2.4	2.9	1.8	2.5	1.3	0.8	0.9
" " "1050°F	7.6	8.9	8.5	9.2	7.9	8.9	10.2	8.5	2.6
" " "1200°F	9.3	10.5	12.4	11.6	11.8	12.9	12.0	6.5	5.7
" " "1500°F	--	--	--	--	--	--	--	9.0	5.7
" " "1800°F	--	--	--	--	--	--	--	--	6.3
...on. mm as is	0.79	0.92	1.07	0.87	0.86	0.39	0.44	0.92	0.67
" " 1050°F	0.82	1.02	1.03	0.92	0.79	0.37	0.42	1.52	0.53
" " 1200°F	1.04	1.34	1.08	1.17	0.65	0.44	0.61	1.37	0.64
" " 1500°F	--	--	--	--	--	--	--	0.69	0.89
" " 1800°F	--	--	--	--	--	--	--	--	2.00
...ineal Shr. % 1050°F	1.09	0.81	0.64	0.41	0.95	0.95	0.63	0.51	0.32
" " " 1200°F	1.61	1.60	0.82	0.91	1.20	1.38	1.25	0.57	0.72
" " " 1500°F	--	--	--	--	--	--	--	4.12	1.12
" " " 1800°F	--	--	--	--	--	--	--	--	3.00
...nvas Wt. yds./lbs.	8.6	8.2	8.3	7.9	4.9	6.7	5.8	6.2	--
...pearance	Good	Good	Good	Fair	Poor	Good	Excel-lent	Excel-lent	Good

To: Mr. J. M. Huret Trenton
E. R. Stevens "
H. H. Wilson "
H. E. Howell
F. A. Chomitz
K. F. McKee
R. R. Lankin
U. H. Smith
D. L. Satterthwaite ✓

September 28, 1961

SUBJECT: Competitive Audit R & I #12 and #18 Block

Samples of Refactory and Insulation's No. 12 and No. 18 block were received September 13, 1961. Both would appear to be a type of calcium silicate (portland cement?) heavily loaded with perlite. Density is quite high and strength quite low for the densities involved. There is indications that the #18 block has some small amount of crocydolite fiber in it. Appearance of both products is marginal, there being poor consolidations and pots and holes in the surfaces from the band saw pulling out fiber and small (1/8" diam) pieces of stone (portland cement?).

	#12 Block 1½"x6"x36"	#18 Block 1½"x6"x36"
Density pif	15.62	25.17
Flexural strength psi	43.2	95.3
M/D	2.8	3.8
M/D2	0.18	0.16
I/D	0.43	0.54
Hinge strength Lbs.	22.4	34.8
Compr. str. psi @ 5% def	81.	142.
" " " " 10% def	92.	172.
Wt. loss % @ 220°F	4.0	3.3
" " " "1050°F	7.5	8.9
" " " "1200°F	7.7	10.3
" " " "1500°F	8.6	11.5
" " " "1800°F	--	12.0
Rumble loss % @ 10 min	39.3	20.4
" " " " 20 min	39.6	37.5
Penetration mm as is	.00	0.39
" " 1050°F	1.13	0.72

	#12 Block	#18 Block
Penetration mm 1200°F	1.52	0.76
" " 1500°F	0.93	1.46
" " 1800°F	--	2.00
Lineal shrink % @ 1050°F	0.74	0.79
" " " " 1200°F	1.66	1.82
" " " " 1500°F	5.30	2.93
" " " " 1800°F	--	2.93

John D. McAllister