PROPOSED

JOHNS-MANVILLE ITALIANA S.p.A. Casalpusterlengo Plant (Milano)	FINISHED PRODUCT SPECIFICATION	Spec No. 432-C	001
	Product: SUPEREX BLOCKS	Page No. 1	of 3

PLAINTIFF'S EXHIBIT K-1644

I. MANUFACTURING LOCATION

Casalpusterlengo

II. SIZES:

1. Length 457 - 500 - 914 - 1000 mm.
2. Width 150 - 250 - 304 - 333 - 500 mm.
3. Thickness from 20 to 120 mm.

NOTE:

Special Shapes: Curved and various shapes according to Customer requests:
Length: 1000 mm. maximum
Width: 500 mm. maximum
Thickness: 120 mm. maximum

III. PRODUCT AND INSPECTION STANDARDS:

A. General Appearance

Note: Refer to Quality Control retained samples for maximum allowable broken corners of blocks.

B. Dimensional Tolerances

1. Length	Plus 1/16",	minus 1/16"
2. Width	" 1/16",	" 1/16"
3. Thickness std	" 1/16",	" 1/16"

C. Quality Requirement

1. Density - lbs/cu.ft. - Test Method 022/Cas. - Frequency: daily. Sampling done by Q.C., according to plan Casale No. 045

Desired Average	22.0
Maximum	24.0

2. Modulus of Rupture - lbs/sq.in.

	1"	1-1/2" thick and over
a. Desired Average	60 or more	65 or more
Minimum	40	45

X - Indicates Change - Reason:

Authority for Change

DEFENDANT'S EXHIBIT OI-216

III. PRODUCT AND INSPECTION STANDARDS (Cont'd)

C. Quality Requirement (Cont'd)

2. Modulus of Rupture - lbs/sq. in.

b. Test Method 023 Casal

Frequency: daily. Sampling, done by Q.C., in accordance to plan Casal No. 045.

1. Sample size 4-1/2" x 9" x 2-1/2".
2. Span 7"
3. Loading Rate 20 kgs/minute (approx.)

3. Abrasion Loss - Percent

Test method 025 Casal. Sampling, done by Q.C., in accordance to plan Casal No 045. Frequency: If requested by customer through selling authorities.

10 minutes maximum - 40
20 minutes maximum - 70

4. Change after Soaking Heat (24 hours - 1900° F)

a. Loss in weight: Test method 027 Casal. Frequency: established by Q.C. Sampling done by Q.C. in accordance to Casal plan No. 045.

c. Linear shrinkage: after 24 hours at 1900° F - 3% maximum (T.M.Cas. 027)

5. Thermal Conductivity (BTU in./hr/sq.ft./°F)

Test method ASTM C-177 Sampling by Q.C. Frequency: If requested by customer through selling authorities.

Mean Temp. °F	200	400	600	800	1000	1200	1400
Desired	.65	.69	.73	.77	.82	.88	.95
Maximum	.72	.76	.80	.85	.90	.96	1.05

X - Indicates Change - Reason:

Authority for Change

JOHNS-MANVILLE ITALIANA S.p.A. Casalpusterlengo Plant (Milano)	FINISHED PRODUCT SPECIFICATION Product: SUPEREX BLOCKS	Spec No. 452-C	004
		Page No. 3	of 3

IV. PACKAGING

Blocks shall be packed in corrugated cartons, unless customer requests special packaging

SIZE (mm.)	Pcs/carton	P.S. Casale N°
457 x 152 x 25	48	052
914 x 152 x 25	24	052
914 x 152 x 38	16	052
914 x 152 x 51	12	052
914 x 152 x 76	8	052
914 x 152 x 102	6	052
914 x 304 x 25	12	052
914 x 304 x 51	6	052
914 x 304 x 63.5	4	052
1000 x 150 x 100	6	051
1000 x 150 x 120	6	051
1000 x 250 x 120	3	051
1000 x 500 x 60	5	
1000 x 500 x 100	3	
500 x 333 x 20 + 120	See Fibrosilex specs	

V. CARTON MARKING

All cartons shall have the word "FRAGILE" and the word "TOP" indicated by an arrow.

All cartons shall be marked with quantity and size of content and shall have date identification in code.

Cartons for non-standard Block shall have printing information completed by printing in Quality, Shape and Style in the space provided.

Markings shall be by stencilling or printing.

X - Indicates Change - Reason:

Authority for Change

Superex, Block, Except Navy
(Lagging)