PLAINTIFF'S
EXHIBIT
KN-390

B E H

BALDWIN-EHRET-HILL, INC., TRENTON, N.J.

DATA SHEET

Product: Mono-Block

Description: Felted rigid block made of Spun Mineral Wool with a clay binder, by a patented Baldwin-Ehret-Hill process. With long mineral fibers laid down in interwoven layers, it has greater tensile strength and better resistance to damage in handling.

Uses: For heated surfaces on steam boilers, ovens, kilns, furnaces, refinery towers, etc.

Features: Light Weight - Maximum Temperature Range - up to 1800 F. Easy to handle and apply, cuts with a knife, surface adjusts to irregularities for snug fit, Moisture-resistant, non-corrosive, stable in service and incombustible.

Technical Data: Maximum Temperature Limit - 1800 F.
Sizes: Length - 18, 36 inches - Width - 6, 12 and 24 inches
Thicknesses: 1, 1-1/2, 2, 2-1/2, 3, 3-1/2 and 4 inches
Density: Approximately 15 pounds per cubic foot
Thermal Conductivity - (See curve also)

Mean Temp	K
200F	.36
400	.42
600	.51
800	.625
1000	.755
1200	.90

Compressive Strength - 10 lb./sq. in. @ 5% deformation
Flexural Strength - 40 lb./sq. in.
Linear Shrinkage after heating at 1800 F - less than 4%

Chemical Analysis (typical)

SiO_2	-	43%
Al_2O_3	-	11%
CaO	-	29%
MgO	-	6%
FeO	-	8%

Surface Temperatures and Heat Losses - See Charts
Thicknesses Recommended - See Catalog

Specifications: Federal Specification HH-I-564, Form 1, Types A, B, C, D
Commercial Standard CS-117, Block, Classes A, C, D
ASTM: C 392
U. S. Coast Guard, Structural Insulation, 2", 164.007/23/0

Packages: Corrugated boxes - 36 bd. ft. each - (Exception: 37.5 bd. ft. for 2-1/2" and 42 bd. ft. for 3-1/2" thickness)

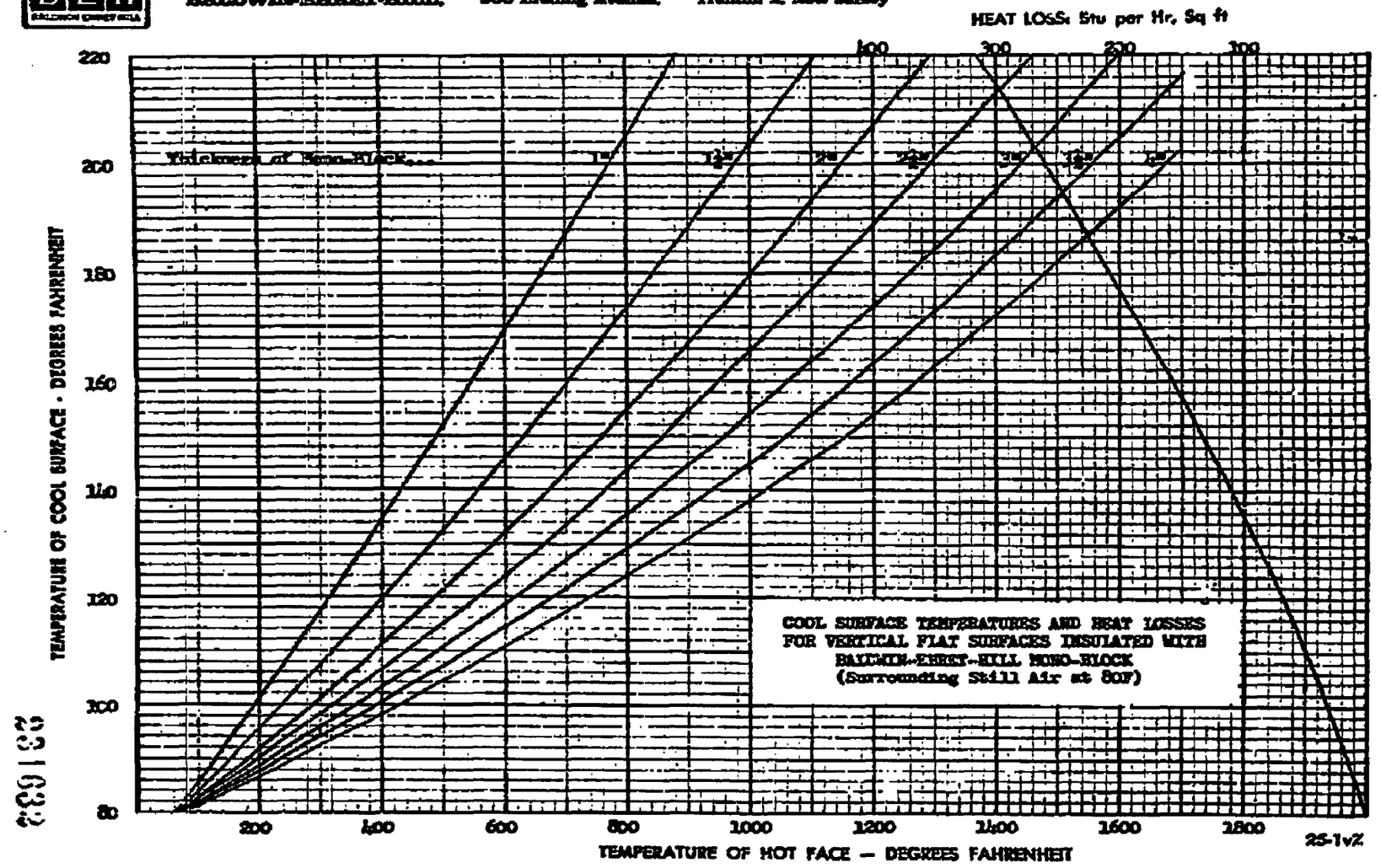
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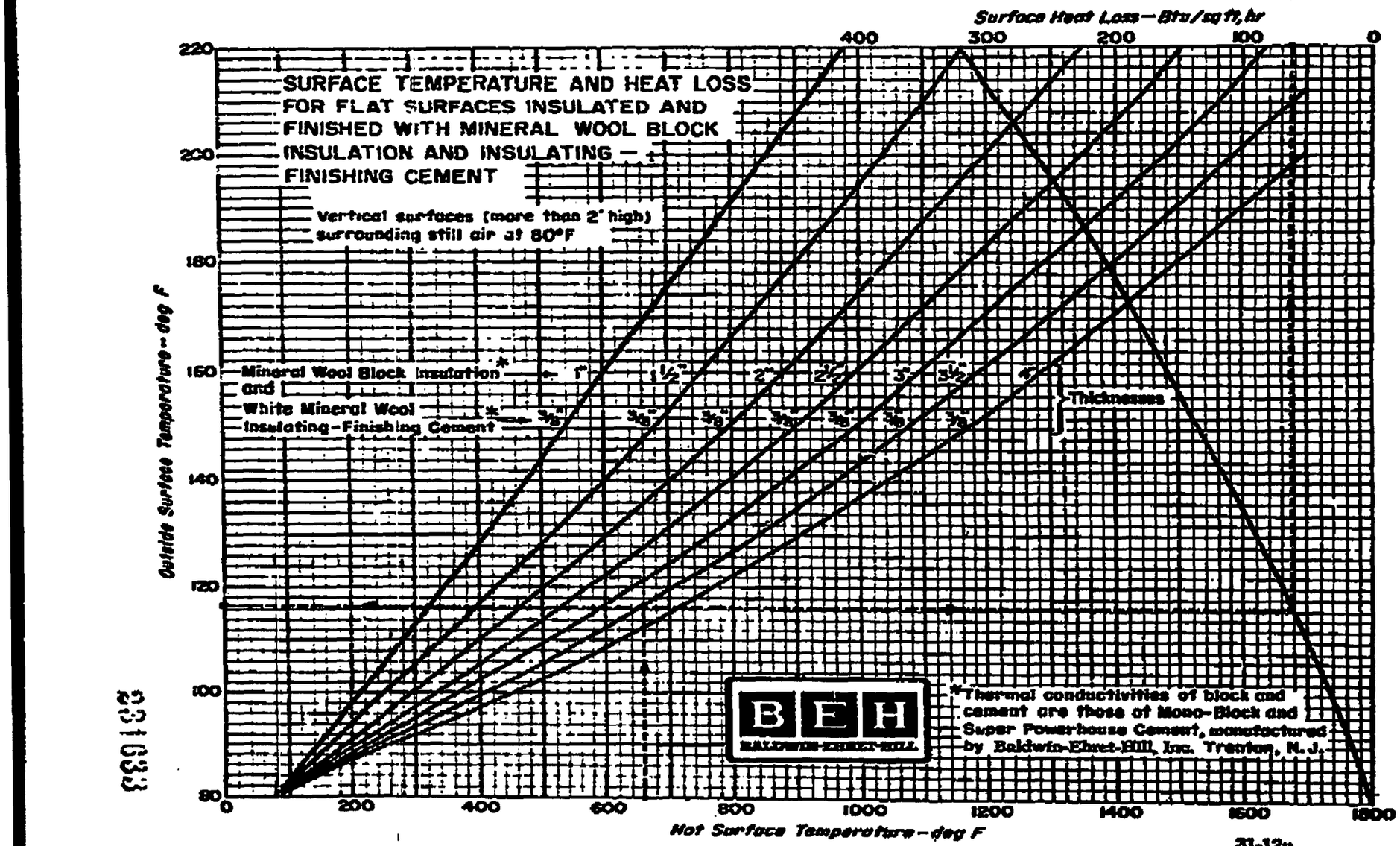
BALDWIN-EHRET-HILL, 500 Hennig Avenue, Trenton 8, New Jersey

Thermal Conductivity of B-E-H MONO-BLOCK

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BALDWIN-EHRET-HILL, 500 Ewing Avenue, Trenton 2, New Jersey




Surface Heat Loss—Btu/sq ft, hr
400
300
200
100
0
SURFACE TEMPERATURE AND HEAT LOSS
FOR FLAT SURFACES INSULATED AND
FINISHED WITH MINERAL WOOL BLOCK
INSULATION AND INSULATING —
FINISHING CEMENT
Vertical surfaces (more than 2' high)
surrounding still air at 80°F
Outside Surface Temperature—deg F
220
200
180
160
140
120
100
80
Mineral Wool Block Insulation *
and
White Mineral Wool
Insulating-Finishing Cement *
1"
1½"
2"
2½"
3"
3½"
4"
Thicknesses
3/8"
0
200
400
600
800
1000
1200
1400
1600
1800
Hot Surface Temperature—deg F
B E H
BALDWIN-EHRET-HILL
*Thermal conductivities of block and
cement are those of Mono-Block and
Super Powerhouse Cement, manufactured
by Baldwin-Ehret-Hill, Inc. Trenton, N. J.
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