

209 San Pablo, S.E. . Albuquerque, New Mexico 87108 . Phone (505) 268-2596

Oct. 2, 1970

Mr. BenCrockett

Willard A. Selle, Inc.
215 Poplar St.
El Paso, Texas

Subject: Fiberglas 600 series vs. 700 series board

Dear Ben:

As you know, back in 1967 we phased out our 600series Fiberglas board products. This was done because of a new glass process we developed that result in a superior product to the old.

The 700 series board is tougher, more damage resistant, better appearing and has a better insulation value.

For the purpose of comparison, we have prepared a table to help our customers choose a 700 series product where they used to use 600 series.

You will note that where 614 was used we recommend type 703. It has a slightly lower compressive strength but a better k value than the 614.

If I can be of any further assistance, please call on me.

Sincerely,

Frank A. Lederle, Jr.

HER 0001552

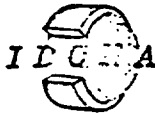
1967 BOARDLINE

700 SERIES			PF 610 SERIES		
PRODUCT	COMPRESSIVE STRENGTH	K FACTOR (BTU/hr., F, S.F., hr.)	PRODUCT	COMPRESSIVE STRENGTH	K FACTOR
<u>PLAIN</u>			<u>PLAIN</u>		
700	3* psf@10%	.260 @ 75° M.T.	PF 611 (a)	35 psf@10%	.285 @ 75° M.T.
701	4.5*	.242	PF 612 (a)	40	.269
702	9.5*	.235	PF 613 (a)	80	.255
703	100	.230	PF 614 (a)	120	.247
704	200	.230	PF 615 a	215	.246
705	350	.220	PF 617 a	425	.250
<u>FACED</u>			<u>FACED</u>		
703 Foil Faced	100	.230	FF, Vapor Seal Duct	215	.246
703 FRK	100	.230	FRK, Vapor Seal Duct	215	.246
703 Standard	100	.230	SF, Vapor Seal Duct	215	.246
703 Coated	100	.230	Coated Duct	215	.246
704 Foil Faced	200	.230	PF 617, Foil Faced	425	.250
704 FRK	200	.230	PF 617, FRK Faced	425	.250
704 Standard	200	.230	PF 617, Standard Faced	425	.250
704 Coated	200	.230	PF 617, Coated	425	.250
705 Foil Faced	350	.220			
705 FRK	350	.220			
705 Standard	350	.220			
705 Coated	350	.220			

* After compression packaging.

(a) Dropped from Product Line.

MEMBER



INSULATION DISTRIBUTOR-
CONTRACTORS NATIONAL
ASSOCIATION

WILLARD A. SELLE, Inc.

Insulation Contractors & Distributors

215 POPLAR ST. • EL PASO, TEXAS 79901 • TELEPHONE 542-1877

October 5, 1970

Southwestern Industrial Contractors &
Riggers, Inc.
1730 Bassett
El Paso, Texas 79901

Re: American Smelting & Refining Co.
1970 Cottrell Addition
El Paso, Texas

Gentlemen:

We propose to use Owens-Corning Fiberglas Corporation's Industrial Insulation Type 703, 2" thick, to insulate specified areas on the above referenced project. In accordance with our conversation of October 2, 1970, we are submitting Industrial Insulation, Type 703 in lieu of the specified Owens-Corning Fiberglas Corporation's Type PF-614.

Since we are Owens-Corning Fiberglas Corporation's distributors, we are aware that Type PF-614 is no longer manufactured. We contacted Owens-Corning Fiberglas for their recommended equal to Type PF-614. In their letter of October 2, 1970, they state that Fiberglas 600 Series has been phased out in favor of the superior 700 Series. They also sent us a comparison table, referred to in the letter, which recommends Type 703 where Type 614 was once used. We are enclosing a copy of both the letter and the comparison table from Owens-Corning Fiberglas Corporation, and some product data.

We hope our proposed submittal as recommended by the Manufacturer will be acceptable to you. If you need additional information of any kind, please advise us. We appreciate the opportunity to work with you on this project.

Respectfully submitted,

WILLARD A. SELLE, INC.

Bob Crockett

Bob Crockett

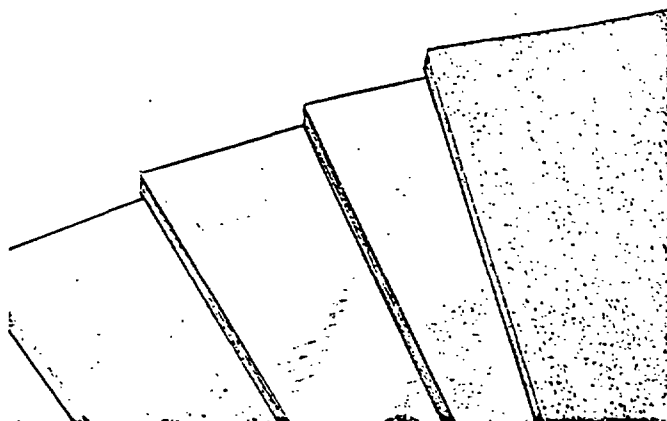
BC/p
Enc.

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plumbing systems 2.0
mechanical equipment 3.2
air handling systems 4.4
power & process equipment 6.1
vessels & tanks 7.2
boilers & chimneys 8.5
January, 1969

Equipment Insulation



Industrial Insulation 700 Series

*a highly versatile group of Fiberglas
insulating boards designed to insulate
ductwork and equipment operating
at temperatures up to 450F.*

uses

The 700 Series boards have been designed primarily to insulate heating and air conditioning ducts, ovens, tanks, boilers, hot water generators and other hot equipment.

type 700 — a low cost flexible material suitable for insulating factory-fabricated metal panels and for packing into irregular spaces

type 701 — A lightweight resilient insulation, in board form, used on vessels having irregular surfaces where the exterior finish is supported by welded studs, pins or other mechanical attachments

type 702 — More rigid than 701 and is recommended for use on equipment and ductwork subject to minimum maintenance and construction abuse

type 703 — A semi-rigid board recommended for use on equipment, vessels and air conditioning ductwork.

description

Fiberglas * 700 Series Industrial Insulations are made of inorganic glass fibers pre-formed into semi-rigid to rigid rectangular boards of varying densities. The series consists of Type 700, 701, 702, 703, 704 and 705. Each type has specific thermal and physical characteristics which makes it suitable for the uses described. Type 703, 704 and 705 are available with a variety of factory-applied vapor-barrier facings to prevent condensation on cold surfaces and to provide a neat finished appearance. Fire Retardant Facings are available.

type 704 — A rigid board recommended for use on heating and air conditioning ductwork in exposed areas where sharp, true corners and smooth surfaces are desired.

type 705 — A rigid board with very high strength characteristics for use on chillers, hot and cold equipment, heating and air conditioning ductwork where greater abuse resistance and good appearance is required.

benefits

lower operating costs — the exceptional thermal efficiency of Fiberglas 700 Series Insulations lowers operating costs.

end-use tailored — a variety of densities and facings offers a selection of products to meet specific performance and economic requirements.

continuous in-place performance — 700 Series resists

damage, maintains structural integrity and efficiency. Thickness stays uniform.

neat, finished appearance — the boardlike characteristics of the heavier density 703, 704 and 705 products provide neat square corners. The factory-applied facings present an attractive finished appearance.

fire safe — Fiberglas is inherently fire safe. The unfaced boards and the Aluminum Foil Faced 703, 704 and 705 have UL Flame Spread ratings of less than 25.

*T.M. Reg. O.-C. F. Corp.

HER 0001555

performance characteristics

sound absorption coefficients (2" thick #6 mounting)

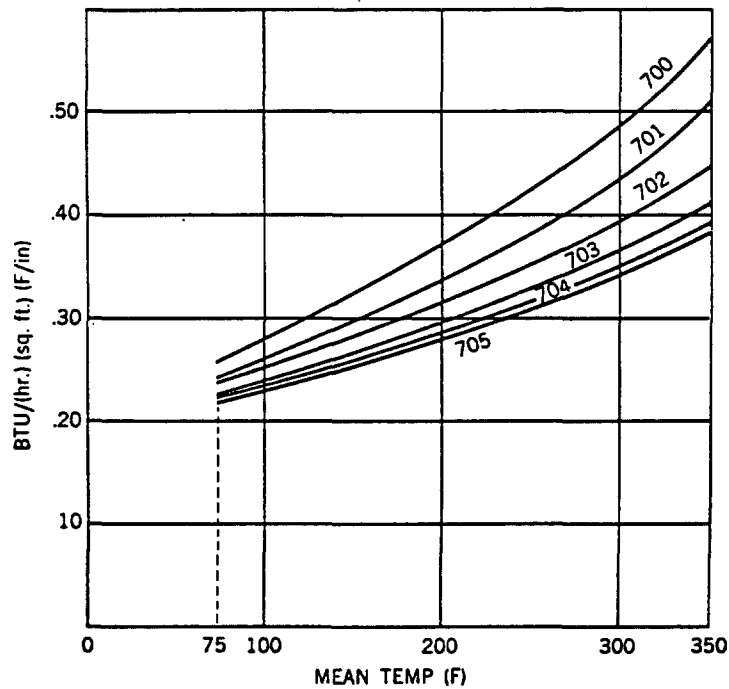
TYPE	125	250	500	1000	2000	4000	NRC
701	.34	.70	.96	.97	.86	.83	.87
702	.28	.77	.96	.98	.87	.87	.89
703	.32	.74	.97	.98	.87	.85	.89
704	.27	.79	.98	.99	.88	.86	.91
705	.48	.82	.97	.99	.90	.86	.92

size and density

Type	Density (pcf)	Thickness (in 1/2" increments)	Compressive Strength (psf at 10% deformation)	Standard Size	Therm. Cond. (@ 75F Mean Temp.)
700	1.08	1"—4"	3†	24" x 48"**	0.260
701	1.58	1"—4"	4.5†		0.242
702	2.25	1"—3"	9.5†		0.235
703	3.00	1"—2"	100		0.230
704	4.20	1"—2"	200		0.230
705	6.00	1"—2"	350		0.220

*For special applications, boards up to 48" x 96" are available. †After compression packaged.

thermal conductivity



moisture absorption.....less than 0.2% by volume
bacteria and fungus resistance.....does not breed nor promote
odor.....odorless
humidity and temperature effect.....cycling conditions will not cause spalling or crumbling
corrosion.....does not accelerate corrosion of copper, steel or aluminum.

facings

Type 703, 704 and 705 are also available with the following factory applied vapor barrier facings:

- FF — .0025 aluminum foil (UL Rated)
- FRK — Foil-reinforced kraft
- SF — Duplex Laminated kraft

fire hazard classification

	unfaced (700, 701, 702)	(703, 704, 705)	foil-faced (703, 704, 705)
flame spread	10-20	15	15-20
fuel contributed	10-15	15	20-35
smoke developed	0-20	0	0

(compared to untreated Red Oak as 100)

application recommendations

Type 700, 701, 702 — Lightweight unfaced flexible insulations in board form for use on vessels having irregular surfaces where the exterior is supported by welded studs or stiffeners and not by the insulation itself. The products are self-supporting but are generally secured with mechanical fasteners and protected by sheet metal.

Type 703, 704, 705 — These board insulations are normally impaled on welded pins on flat surfaces. They are cut in segments and banded in place on irregular surfaces. Unfaced boards are normally finished with reinforced insulating cement or weatherproof mastic. Faced boards, with joints taped to provide a continuous vapor barrier, may be left unfinished or may be canvas jacketed.

recommended thickness — heated equipment

(80F ambient air)

Surface Temp.	Type 701			Type 703			Type 704		
	RT	HL	ST	RT	HL	ST	RT	HL	ST
150	1½	11	87	1½	10	86	1½	10	86
250	2	24	95	2	21	93	2	20	92
350	3	29	98	2½	31	99	2½	30	98
450	3½	40	105	3	40	105	3	39	104

RT — recommended economic thickness, inches.

HL — heat loss (Btu/ft²-hr.).

ST — surface temperature (F).

thickness to prevent condensation

cold ducts and equipment

The following chart indicates the recommended thickness of Type 703, 704, 705 Faced Duct Insulation for installation on cold air ducts at various temperature differences (duct to air). Also shown are values for heat gain and approximate maximum relative humidity allowable.

Temperature Differences	Recommended Thickness (inches)	Heat Gain Btu/ft ² -hr	Permissible Relative Humidity
20	¾	5.1	90%
25	¾	6.4	87%
30	1	6.1	89%
35	1	7.1	88%
40	1½	5.7	90%
45	1½	6.3	89%
50	2	5.4	90%

specification compliance

HH-I-558a, Form A, Class 1.	702, 703**, 704, 705
HH-I-558a, Form A, Class 2.	703**, 704, 705
HH-I-558a, Form B, Type 1, Class 7.	700, 701, 702
Navy Bureau of Yards and Docks, 16Yf	703**, 704, 705
Corps of Engineers, C.E.—301.08, .11 thru .17	703**, 704, 705

**Type 703 G is specially produced for contracts where certification of compliance to the above Federal Specification is required. Available plain or faced for use on hot or cold equipment and for air conditioning ductwork.

***Waiver required on upper temperature limit.

limitations

Industrial insulation 700 series, plain, should not be used on surfaces operating at temperatures above 450F. Types 703, 704, 705 faced products should not be used on surfaces operating at temperatures greater than 250F except that FF may be used at a maximum thickness of 2½ inches up to 450F.

caution

Owens-Corning Fiberglas Insulations are to be applied only with approved adhesives, mastics and mechanical fastening devices as published in Accessory Materials List, Pub. No. 4-IN-3430. Owens-Corning Fiberglas accepts no responsibility or liability for the performance of materials other than those listed unless approved in writing by O-CF Testing Laboratories.