

Promat



Technical Data Sheet

SYSTEM

DALFRATHERM[®]-1200 ULS BLOC

DALFRATHERM®-1200 ULS Bloc systems are the low bio persistence grade in the DALFRATHERM® SYSTEMS range. They manufactured utilizing the same Ultra Low Shot technology utilized throughout our fiber product range. Ultra-Low Shot technology is at the cutting edge of fiber production, achieving the highest possible thermal insulation value .

Typical applications

- Thermal insulation for furnace lining
- Furnace lining in Ceramics and Glass
- Thermal insulation for Petrochemical Industry (process heaters, reformers, cracker units)
- Chemically stable insulation for Steel Treatment (reheating furnace, annealing furnaces, rotary hearth furnaces)
- General technical insulation of furnaces and technical installations

Benefits

- Proven technical solution
- Low shot technology
- Excellent insulation performance
- High handling strength
- Unaffected by most chemicals
- Excellent thermal stability
- Resistant to thermal shock

DALFRATHERM®-1200 ULS Bloc systems are built up from 2 slabs which are connected by 2 stainless steel tubes. These also hold the central yoke (and in many cases the anchoring system). Because the fiber slabs are positioned in edge grain orientation and are produced with a high level of needling, the DALFRATHERM® systems can handle high gas velocities without erosion of the fiber structure.

ULS stands for Ultra Low Shot and DALFRATHERM® ULS is a true Generation III product. It enhances the high standard on other AES fiber modules with an improved thermal conductivity and mechanical strength as result of the high fiber index.

DALFRATHERM®-1200 ULS Bloc Systems are available in a standard dimension of 305x305 mm,

but we also provide L-shaped corner modules and other specialty shapes. Denisities go from 160 up to 240 kg/m³.

Available with various anchoring systems (side mounted, center fix and direct welding) with hardware in various grades.

Type

Monolithic Fiber Modules from high temperature Refractory Ceramic Fiber.

Temperature range

DALFRATHERM®-1200 ULS Bloc systems have a classification temperature of 1200°C and are recommended for continuous use up to 1050°C in clean oxidizing atmospheres.

DALFRATHERM®-1200 ULS BLOC

1200°C



Grade			AES, low biopersistence		
Colour			white		
Classification temperature		°C (°F)	1200°C (2192°F)		
Continuous use temperature		°C (°F)	1050°C (1922°F)		
Density	EN 1094-4	kg/m ³	160	192	240
Linear shrinkage	GB/T 17911	%			
12h@1100°C (2012°F)			< 2		
Thermal conductivity	ASTM C201	W/m.K			
200°C (392°F)			0,07	0,07	0,06
400°C (752°F)			0,12	0,11	0,10
600°C (1112°F)			0,18	0,15	0,14
800°C (1472°F)			0,25	0,22	0,20
1000° (1832°F)			0,33	0,29	0,26
Chemical composition	GB/T 21114	%			
SiO ₂			63-66		
CaO			26-33		
MgO			3-7		
Others			< 0,8		

Availability

Thickness mm (inch)	160	192	240	L mm (inch)	W mm (inch)
150 (6)	X	X	X	305 (12)	305 (12)
200 (8)	X	X	X	305 (12)	305 (12)
250 (10)	X	X	X	305 (12)	305 (12)
300 (12)	X	X	X	305 (12)	305 (12)

Because of the wide range and variety of chemistries, densities, sizes and anchoring systems, DALFRATHERM®-1200 ULS Bloc systems are typically produced to project specification.

Promat

Etex Building Performance NV

Bormstraat 24
2830 Tiselt
Belgium
+32 2 778 12 11
industry@promat.com
www.promat.com/en/industry

Etex Building Performance GmbH

Scheifenkamp 16
40878 Ratingen
Germany
+49 2102 493 0
industry.verkauf@promat.de
www.promat.com/de/industry

Promat SpA

Via Provinciale 10
24040 Filago BG
Italy
+39 0350069500
industryITA@promat.com
www.promat.com/it-it/industry

Etex France Building Performance S.A.S

500 rue Marcel Demonque, Pôle Agroparc
84915 Avignon Cedex 9
France
+33 (0)4 32 44 44 90
industryFR@promat.com
www.promat.com/fr-fr/industry

Promat Iberica, S.A.

Calle Velázquez 47, 6° izquierda
28001 Madrid
Spain
+34 917 811 550
info@promat.es
www.promat.com/en/industry

Promat TOP Sp. z o.o.

ul.Przeclawska 8
03-879 Warszawa
Poland
+48 22 212 22 95
ei.pl@etexgroup.com
www.promat.com/pl-pl/industry

Promat s.r.o.

V. P. Čkalova 784/22
160 00 Praha 6 - Bubeneč
Czech Republic
+420 224 390 811
pavel.dvorak@etexgroup.com
www.promat.com/cs-cz/industry

Eternit Baltic

J. Dalinkevičiaus str. 2H
Naujoji Akmenė 85118
Lithuania
+370 42 55 68 49
industry@promat.com
www.promat.com/en/industry

Etex Sverige

Hästvägen 4A
212 35 Malmö
Sweden
+44 (0)800 588 4444
industryuk@promat.co.uk
www.promat.com/en-gb/inds

Promat UK Limited

B1 The Innovation Centre
Pilsworth Road - Heywood Distribution Park
Heywood Lancashire OL10 2TS
United Kingdom
+44 (0)800 588 4444
industryuk@promat.co.uk
www.promat.com/en-gb/inds

Promat Inc.

1731 Fred Lawson Drive
Maryville, TN 37801
USA
+1 888 681 0155
industryUS@promat.com
www.promat.com/en-us/industry

Marley Building Systems

2 Setchell Rd
Roodekop
Germiston 1401
South Africa
+27 (0)11 389 4500,
industry@promat.com
www.promat.com/en/industry

Promat Fire Protection LLC

Plot # 597 - 921 - Dubai Investment Park 2
Dubai
United Arab Emirates
+971 4 885 3070

Promat Japan Corporation

Hulic Kakigaracho Bldg., 1-28-5
Nihonbashi Kakigara-cho, Chuo-ku,
Tokyo 103-0014
Japan
+81-3-3808-2820
sales@promat.jp
www.promat.com/ja-jp/industry

Promat Malaysia

Sdn. Bhd. ,Unit 19-02-01,Level 2,
Wisma Tune, No 19, Lorong Dungun, Damansara
Heights
50490 Kuala Lumpur
Malaysia
+603 2095 8555 ext. 140
www.promat.com/en/industry

Promat International Ltd (Korea Branch)

11F, 117, Namdaemun-ro
Jung-gu, Seoul, 04522
South Korea
+82 70 7794 8216
www.promat.com/en/industry

Promat Fire & Insulation Private Ltd

Global Business Park Unit No. 605, 6th Floor, Tower B,
Mehrauli Gurgaon Road, Sector 26, Gurgaon,
122 002 Haryana
India
+91-124-434-6865
promatindia@etexgroup.com
www.promat.com/en/industry

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Etex Industry c/o Microtherm N.V.
Industriepark-Noord 1
9100 Sint-Niklaas
Belgium
+32 (0)3 760 19 80
info@promat-industry.com
www.promat-industry.com

