Mention should also be made of hollow glass bricks, hermetically sealed to prevent the access of dust to their interior. These bricks have already been tested in building with excellent results.

As for the glass house itself, it has already been seen in Japan and in the United States. Even at Paris, during the recent Exposition, we had a palace of glass which was a wonder.

SIZES OF WIRE CLOTH.-In referring to wire cloth for screening purposes the custom is to state the number of meshes per linear inch, but inasmuch as wire of various diameter is employed in making cloth of a certain number of meshes per linear inch, the character of the cloth cannot be determined unless the number of the wire from which it is woven be specified. It is important to specify the number of the wire because, for example, a 24-mesh screen woven with fine wire may have larger apertures than a 20-mesh screen woven with coarse wire. There used to be a good deal of confusion with respect to wire cloth, owing to the differ-ent wire gauges employed by different manufacturers. This difficulty has, however, been happily obviated during the last two years, the Wire Cloth Manufacturers' Association having adopted on March 7, 1899, the Washburn & Moen, or Worcester, gauge as the standard of all iron or steel wire cloth and the old English gauge as the standard for all brass or copper wire cloth. These gauges are to be found in almost any of the engineers' pocketbooks and from them the diameter of the apertures in a wire cloth of any mesh can be calculated readily if the number of the wire from which it is woven be specified. The



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mesh in wire cloth is always the number of openings in a linear inch measuring from center to center of wire. A linear inch will comprise, therefore, the same number of apertures and wires. Multiplying the diameter of a single wire in decimals of an inch by the number of wires in a linear inch, subtracting the product from unity and dividing the remainder by the number of meshes per linear inch, will give the diameter of each aperture in decimals of an inch.

Steel wire cloth is made in great variety for all meshes except the finest. No. No. 1 mesh wire cloth is woven with wire from No. 3 to No. 15; No. 3 mesh from No. 4 to No. 16; No. 5 mesh from No. 5 to No. 17; No. 2 mesh from No. 6 to No. 18; No.  $2\frac{1}{2}$  mesh from No. 8 to No. 19; No. 3 mesh from No. 10 to 20; No. 3<sup>1</sup>/<sub>2</sub> mesh from No. 11 to No. 21; No. 4 mesh from No. 11 to No. 22; No.  $4\frac{1}{2}$ mesh from No. 12 to No. 23; No. 5 mesh from No. 13 to No. 24; No. 6 mesh from No. 14 to No. 25; No. 7 mesh from No. No. 15 to No. 26; No. 8 mesh from No. 16 to No. 27 ; No. 9 mesh from No. 17 to No. 28 ; No. 10 mesh from No. 18 to No. 29; No. 12 mesh from No. 19 to No. 30; No. 14 mesh from No. 20 to No. 34; No. 16 mesh from No. 21 to No. 35; No. 18 mesh from No. 22 to 36; No. 20 mesh from No. 23 to No. 36; No. 22 mesh from No. 24 to No. 36; No. 24 mesh from No. 25 to No. 36; No. 26 mesh from No. 26 to No. 36; No. 28 mesh from No. 27 to No. 36; No. 30 mesh from No. 28 to No. 36; No. 35 mesh from No. 29 to No. 36; No. 40 mesh from No. 31 to No. 37; No. 45 mesh from No. 33 to No. 37; No. 50 mesh from No. 34 to No. 38; No. 55 mesh from No. 35 to No. 38; No. 60 mesh from No. 35 to No. 39; No. 64 and No. 70 mesh from No. 37 to No. 39; No. 74 mesh from No. 39 and No. 40; No. 80 mesh from No. 40 and No. 42; No. 90 mesh from No. 42. The number of the wire and the diameter of the apertures in inches and millimeters of the regular heavy grade iron or steel mining wire cloth are given in the following table :

	0		0	
REGULAR SIZES OF WIRE CLOTH.				
The mesh in wire cloth is the distance from the				
center to the center of wire.)				
Diam. of				
	Dia	m. of Wire	e. Aperture	Equiv'Int in
Mesh.	Wire No.	Inches.	Inches.	Milimeters:
1	3	.2437	.7563	19.81
3	4	.2253	.5247	13.33
2 2 2 2 3	4 5 8	.2070	.4180	10.62
2	8	.1620	.3380	8.59
24	.9	.1483	.2517	6.39
3	10	.1350	.1983	5.04
31	11	.1205	.1652	4.20
4	42	.1055	.1445	3.67
4	13 13	.0915	.1307	3.32
e e	13	.0915 .0800	.1085	2.76
¥	14	.0800	.0867	2.20
5 6 7 8	16	.0720	.0709 .0625	1.80
ş	10	.0625	.0625	1.59
10 .	18	.0310	.05/1	1.45 1.33
12	19	.0410	.0423	1.07
14	20	.0348	.0366	.93
16	22	.0286	.0339	.86
18	23	.0528	.0298	.76
20	24	.0230	.0270	.69
22	25	.0204	.0251	.64
24	26	.0181	.0236	.60
30	28	.0162	.0171	.43
40	31	.0132	.0118	.30
<b>5</b> 0	34	.0104	.0096	.24
60	36	.0090	.0077	.20
64	37	.0085	.0071	.18
70	38	.0080	.0063	.16
74 80	39	.0075	.0060	.15
80 90	40	.0070	.0055	.14
90	42	.0062	.0041	.10 、

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