

Introduction

The Bilco Company has served the building industry since 1926. Under the same family ownership and management since its beginning, the Company has been a pioneer in the development of the unique line of specialty access products found within this catalog. In addition to the products shown, Bilco also specializes in



Main Office/Manufacturing — West Haven, Connecticut

the custom design and manufacture of specialty access solutions. Years of engineering experience combined with the most modern equipment available allow Bilco to design access products for virtually every application.

Manufacturing — Trumann, Arkansas

Your Assurance of Quality



All Bilco products are designed to provide many years of trouble-free service. In addition, Bilco, an ISO 9001 certified company, has a highly skilled customer service department and an international network of factory-trained representatives ready to provide whatever service or assistance you may require.

More Information Available

For more information, including product submittal sheets, 3-part specifications and CAD details, log onto <u>www.bilco.com</u>. Bilco products can also be found on Sweet's CD and on numerous sites on the Internet.

See Sweets files for other Bilco Products: AEC 07 72 00/BIL Roof Scuttles FOE 07 72 00/BIL Roof Scuttles RES 08 31 13/BIL Basement Doors RES 10 74 46/BIL Window Wells

LadderUP[®] Safety Posts

The easy to install, easy to use extension device for fixed ladders under access hatches.



The spring balanced LadderUP[®] permanently mounts on the top two ladder rungs

and telescopes up and down, locking in the upright position. This enables service personnel to enter or exit the vault or manhole in an upright and balanced position, as though the interior ladder extended

MODEL	MATERIAL/FINISH	WEIGHT			
-		lbs.	kg.		
LU-1	Steel, black powder coat	24	11		
LU-2	Steel, hot dip galvanized	24	11		
LU-3	Type 304 Stainless Steel	24	11		
LU-4	Aluminum, mill finish	14	7		

above grade level. A handy release lever allows the LadderUP® to be lowered to its retracted position.



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U.S. and Int	ternational Bil	co patents iss	ued and pending
2,682,324	4,729,453	5,657,587	6,672,020
3,516,198	4,873,791	5,927,012	6,931,793
3,877,173	5,107,640	6,021,606	Canada:1971,
4,135,508	5,136,811	6,041,553	1974, 1977, 1985.
4,145,843	5,301,469	6,260,305	Other U.S. and International patents
4,546,855	5,373,665	6,347,818	issued and pending.
	2,682,324 3,516,198 3,877,173 4,135,508 4,145,843	2,682,324 4,729,453 3,516,198 4,873,791 3,877,173 5,107,640 4,135,508 5,136,811 4,145,843 5,301,469	3,516,1984,873,7915,927,0123,877,1735,107,6406,021,6064,135,5085,136,8116,041,5534,145,8435,301,4696,260,305

See complete list of sales representatives on the back cover



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Floor, Vault and Sidewalk Doors

Advantages and Features

- · Provide reliable access to vaults and underground equipment
- Available in standard steel and aluminum sizes for drainage and non-drainage applications. In addition. Bilco can manufacture doors to virtually any size to meet your unique access requirements
- Engineered to include the proper combination of compression spring operators or torsion rods to provide smooth, easy and controlled operation
- · Positive hold open arm engages automatically when the door reaches its fully open position
- Heavy duty hinges and a Type 316 stainless steel slam lock

Drainage Doors:

Constructed for use in exterior applications or in those situations where there is concern of water or other liquids entering the access opening. These units are supplied with a threaded drain coupling — fully welded to the channel frame — for connection to a dry or wet well in the field.

Type J-AL & JD-AL Single or Double Leaf **Aluminum Construction**

Ideal for most corrosive environments. Single or double leaf covers are constructed of 1/4" (6.35mm) diamond pattern plate and reinforced for a 300 lb/ft² (1464 kg/m²) live load. Features all anti-corrosion hardware, a standard debris gasket and a versatile anchoring system for ease of installation.

Additional features on all J/JD aluminum doors:





Debris Gasket

Forged Aluminum Hinges and Composite Spring Tubes

Bilco's Exclusive 25-Year J-AL Door Warranty

Type J-AL H20 & JD-AL H20

Single or Double Leaf **Aluminum Construction**

Designed to withstand vehicular traffic in off-street locations. Single or double leaf covers are constructed of 1/4" (6.35mm) diamond pattern plate and reinforced for AASHTO wheel loading. With all the same features as the Type J-AL, this door is also ideal for most corrosive environments.







are on page 6.

Floor, Vault and Sidewalk Doors

Drainage Doors:

Type J & JD Single or Double Leaf Steel Construction

Single or double leaf covers are constructed of 1/4" (6.35mm) diamond pattern plate and reinforced for a 300 lb/ft² (1464 kg/m²) live load. Features reinforced composite spring tubes, heavy forged brass hinges and zinc plated/chromate sealed hardware.



Type J-H2O & JD-H2O Single or Double Leaf Steel Construction

Designed to withstand vehicular traffic in off-street locations. Single or double leaf covers are constructed of 1/4" (6.35mm) diamond pattern plate and reinforced for AASHTO wheel loading. Features reinforced composite spring tubes, heavy forged brass hinges and zinc plated/chromate sealed hardware.

Fire-Rated Floor Doors:

Type FR Single Leaf Aluminum Construction

Maintains the fire rating of a 2-hour floor/ceiling assembly where access is required between building floors. Features include an optional automatic closing system, intumescent fire-resistant coating, and a pan cover designed to accept architectural flooring materials.



For specifications and details log on to www.bilco.com

Floor, Vault and Sidewalk Doors

Non-Drainage Doors:

Generally for interior use or exterior applications where water or liquid infiltration is not a concern. As indicated, some of the models shown are designed to accept a wide variety of flooring materials, allowing them to blend into virtually any building environment.

Type K & KD Single or Double Leaf Aluminum Construction

Single or double leaf covers are constructed of 1/4" (6.35mm) diamond pattern plate and reinforced for a 150 lb/ft² (732 kg/m²) live load. Features zinc plated and chromate sealed hardware, concealed hinges and the T-CAM[®] lifting system for ease of operation.

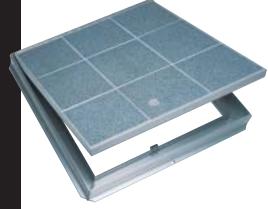


Type Q Single Leaf Steel Construction

Single leaf covers are constructed of 1/4" (6.35mm) diamond pattern plate and reinforced for a 150 lb/ft² (732 kg/m²) live load. Features zinc plated and chromate sealed hardware, concealed hinges and the T-CAM[®] lifting system for ease of operation.

Type T & TD Single or Double Leaf Aluminum Construction

Single or double leaf doors are virtually hidden in interior applications. Will accept carpet or composition flooring material 1/8" (3.18mm) or 3/16" (4.76mm) in thickness. Features cover-and frame-mounted molding strips to accept floor covering and Type K hardware and construction.



Type TER & TRD Single or Double Leaf Aluminum Construction

Similar to the Type T in function, these single and double leaf doors are designed with a pan cover to accept a variety of flooring materials up to 1" (25.4mm) in thickness. Each door is spring balanced at the factory to ensure smooth, easy operation upon installation of the specified flooring material in the field.

Floor, Vault and Sidewalk Doors

Standard Sizes and Weights Contact Bilco for special size requirements

			Jonnaci Di				·						
DRAINAGE		1											———————————————————————————————————————
) lb/ft² (1464 KG/M²)			I, SIDEV					PRECAS			TION	
	IZE	S	STEEL		AL				P		-	<u> </u>	
	x length)	Model #		eight ka	Model #	\vdash	Weigh		Model #			/eight	
inches 24 x 24	mm 610 x 610	J-1	179	kg. 81	J-1AL		1bs. 65	kg. 30	PCM-1		lbs. 71		kg. 32
30 x 30	762 x 762	J-2	231	105	J-1AL J-2AL		88	40	PCM-1 PCM-2		93		42
36 x 30	914 x 762	J-2	274	103	J-3AL		97	40	PCM-2 PCM-3		100		46
36 x 36	914 x 914	J-4	300	136	J-4AL		108	49	PCM-4		116		53
42 x 42	1067 x 1067	J-5	402	182	J-5AL		135	61	PCM-5		145		66
48 x 30	1219 x 762	JD-1	365	166	JD-1AL		145	66	PDCM-1		146	_	66
48 x 48	1219 x 1219	JD-2	498	226	JD-2AL		173	79	PDCM-2		158		71
48 x 72	1219 x 1829	JD-3	652	296	JD-3AL		234	106	PDCM-3		250	-	113
60 x 60	1524 x 1524	JD-4	663	301	JD-4AL		241	109	PDCM-4		242	_	110
		VEHIC		<u>רי</u> אַאַ רי	SHTO H20 WH				200 LB/IN ² (14	4KG/C	M2) ⊥3 (PACT
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S	IZE	5	STEEL	(Diss.				+		STEE		allof to a c	
(width	x length)		Weig	iaht			Weigh	ht				/eight	—
inches	mm	Model #	lbs.	kg.	— Model #		lbs.	kg.	Model #	\vdash	lbs.	-	kg.
24 x 24	610 x 610	J-1 H20	250	113	J-1AL H20		122	55	HLC-1		425		193
30 x 30	762 x 762	J-2 H20	350	159	J-2AL H20	, ,	142	64	HLC-2	/	590		268
36 x 30	914 x 762	J-3 H20	425	193	J-3AL H20	, -	178	81	HLC-3		750		340
36 x 36	914 x 914	J-4 H20	490	222	J-4AL H20		191	87	HLC-4	1	1014	1	460
42 x 42	1067 x 1067	J-5 H20	635	288	J-5AL H20	1 2	244	111	Consult Factory				
48 x 30	1219 x 762	JD-1 H20	532	241	JD-1AL H20		201	91		onsult Fa	,		
48 x 48	1219 x 1219	JD-2 H20	815	370	JD-2AL H20	-		132		onsult Fa			
48 x 72	1219 x 1829	JD-3 H20	1235	560	JD-3AL H20			226		onsult Fa			
60 x 60	1524 x 1524	JD-4 H20	1180	535	JD-4AL H20	<u>ז מ</u>	456	206	Cr	onsult Fa	actory		
NON-DRAI	INAGE DOORS	3											
LIVE LOAD = 150	0 lb/ft² (732 KG/M²)	PIT, VAULT,	TRENCH	I. SIDE	WALK & FLO	OR IN	ISTALL/	ATION	FLOOR INSTAL	LLATIC	N FOI	R COV	ERING
<u></u>	IZE		STEEL				INUM		ALUMINUM				
(width a	x length)	Model #		Weight	Model	Model # Weight		-	Model #		Weight		
inches	mm		lbs.		J.		lbs.	kg.			lbs.		kg.
24 x 24	610 x 610	Q-1	122				50	23	T-1		53		24
30 x 30	762 x 762	Q-2	166				65	30	T-2		68		31
30 x 36	914 x 762	Q-3*	190				77	35	T-3	$ \longrightarrow $	81		37
36 x 36	914 x 914	Q-4	219				86	39	T-4		91		41
42 x 42	1067 x 1067		sult Facto	3	K-5		109	50	T-5		113	\rightarrow	51
48 x 48	1219 x 1219		sult Facto	-	KD-2		152	69	TD-2	\rightarrow	172	\rightarrow	78
48 x 72	1219 x 1829		sult Facto	-	KD-3		214	97	TD-3	\rightarrow	224		102
60 x 60	1524 x 1524		sult Facto	,	KD-4		222	101	TD-4		230		104
	0 lb/ft² (732 KG/M²)	FLOOR INS				E, TIL	E, ETC	i Er	IRE RATED FL			LATIC)N
	IZE	[ALUMI						UMINU	M	-	
	x length)	- Mc	odel #	ŀ	Weig Ibs.	<u> </u>	1	Model	# Clear O	· ·	-		ight ka
inches	610 x 610	<u>├</u> -		+			kg. 45	+	inches	ult Facto		lbs.	kg.
24 x 24 30 x 30	610 x 610 762 x 762		TER-1 TER-2		100 110		45 50	FR-2		736 x 0	-	271	123
30 x 30 36 x 30	914 x 762	TER-3		120		50 54	FR-2		889 x 0		271	123	
36 x 36	914 x 914	TER-4		120	i	59	FR-4		889 x		326	148	
42 x 42	1067 x 1067	TER-5		165		75	FR-5		1041 x		368	140	
30 x 48	762 x 1219	Consult Fac						FR-6		736 x 1		328	149
48 x 48	1219 x 1219	<u>т</u>	TRD-2			,	91		Consult Factory				
48 x 72	1219 x 1829	TRD-2 200 91 Consult Factory TRD-3 275 125 Consult Factory											
60 x 60	1524 x 1524	TRD-4 285 129 Consult Factory											
00 1 00	I IOLIXIOLI		Models with "D" in the Model # indicate double loof configuration										

Models with "D" in the Model # indicate double leaf configuration. * Model Q-3 is hinged on the 36" side.

Special Application Doors

Along with its complete line of floor, vault and sidewalk doors, Bilco's extensive custom-design capabilities can provide you with the exact door you need for your unique applications. Contact The Bilco Company for more information on any of these products.

Doors for Extreme Loading Conditions

The **Type HLC** is specially designed for extreme loading conditions generated by vehicles such as large aircraft, heavy equipment and forklift trucks.

Precast Vault Access Doors

Type PCM & PDCM doors incorporate several innovative features which reduce the amount of labor required to cast the door into a concrete vault.

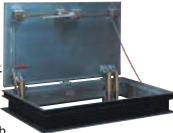


Emergency Evacuation Doors for Transit Systems

Type JD and JD-AL doors can be designed to provide egress from underground rapid transit system platforms and tunnels in emergency situations. Door is designed with stainless steel panic hardware and compression spring operators for ease of operation. Other important features include H-20 reinforcing, handrails, custom signage and a slip-resistant cover surface.

Floodtight Access Doors

The **Type WT** door is watertight under a 25 foot (7.62m) head of water. Designed for installation on controlled environment vaults (CEVs) and other applications where incidental flooding may occur.



Special Sizes

Type JD and JD-AL doors can be manufactured to virtually any size to meet your unique access requirements. Even extremely large doors, such as the one shown, are designed for easy operation by one person.



Odor Control Access Doors (not shown)

Type J-AL single leaf doors can be supplied with provisions for odor control by specifying **Type J-AL-R**. Doors are designed to contain odors and reduce the air leakage rate in odor emitting environments. Tested under a 1" (25.4mm) column of water, the Type J-AL-R door provides an air infiltration rate of less than 1.0 CFM per lineal foot of cover perimeter.

Options

Bilco floor, vault and sidewalk doors can include any of the option packages shown below. In addition, Bilco's engineering department will custom design doors for your unique applications.

Locking and Latching Devices The following lock options are available to add security and prevent unauthorized access:

- Lugs welded to the exterior door surface to receive a padlock. Cylinder lock with a keyway protected by a threaded cover plug.
- Recessed padlock hasps covered by a flush hinged lid.
 High security detention locks.

Consult factory for more information on panic hardware and other locking options.

Special Finishes Where specified, Bilco Model J, JD and Q doors and frames can be supplied with a hot-dip galvanized finish (ASTM A-123). All aluminum doors can be supplied with an anodized finish. Other custom finishes are available when specified.

Stainless Steel Hardware For installation in highly corrosive environments, all Bilco steel and aluminum doors are available with Type 316 stainless steel hardware throughout. Included are all parts of the latch and lifting mechanism assemblies; hold-open and guide arm and guides; and all brackets, hinges, pins and fasteners.

Other Options Bilco floor, vault and sidewalk doors may also be specified to include steel or aluminum grating, submersible pump guide rail brackets, metal enclosed insulation, slip-resistant coatings, drop-in installation modifications, handrails, panic hardware and snow and ice melting cables.

For specifications and details log on to www.bilco.com

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