





ALPHABETICAL

A	ALUMINIUM SHACKLE	37	HINGES	28
	ARMORED HOOK PADLOCKS	31	HINGES SQUARE	12
	AUXILIARY MORTISE LATCHES	13	HOLLOW DRAWER PULL BARS	30
В	BOLD LETTERS	18	HOOK TYPE MAXIMUM SECURITY PADLOCK	31
	BOLD NUMBERS	18	HYDRAULIC DOOR CLOSERS	14
	BOLT HINGES		KEYED BOLT	22
C	CABINET LOCK	26	KNOB FOR BEDROOM	9
	CABLE LOCK	40	KNOB FOR ENTRY	9
	CABLE LOCK WITH KEY		LAMINATED PADLOCK	38
	CHANTEL HANDLE WITH PLATE	7	LATCHES SLIDE	23
	CLASIC RIM LOCK	20	LETTERS	18
	CLASSIC DRAWER	29	LOCK COMBOS	9
	CLASSIC DUAL FUNCTION SETS	7	LOCKS FOR SLIDE DOORS	26
	CLASSIC DUAL FUNCTION SETS STANDARD		MAGNETIC DOOR STOP	17
	CLASSIC HANDLES	29	MAIL BOXES	18
	CLASSIC KNOB PULL	30	MAUSER TYPE PIN	23
	CLASSIC LINE	25	MODERN KNOB PULL	30
	CLASSIC SETS		NUMBERS	18
				27
	CLOSET TROLLEY RAIL TYPE		OVAL TUBE FOR CLOSET	
	COMBINATION PADLOCK	39 P	TABLE ON LOTTE	33
	COMBINATION WIRE LOCK	40	PADLOCK No.9 LONG	32
	COMMERCIAL LOCKS	25	PADLOCK No.9 SHORT	32
	CURTAIN PADLOCKS SETS	35	PADLOCK SETS STANDARD	32
	CURVE HINGE	28	PADLOCK SHORT SHACKLE	33
	CYLINDER SLIDING DOOR	19	PIANO HINGES	24
	CYLINDERS	8	PIANO HINGES WITH HOLES	24
	CYLINDRICAL HANDLE BEDROOM		RESIDENTIAL DEADBOLT	11
	CYLINDRICAL HANDLE ENTRY	11	RIALS FOR CLOSET	27
D	DEADBOLT AND LOCK	8	ROLL DOOR STEEL PADLOCK	35
	DECORATIVE HANDLE FOR SURFACE LOCK	21	ROLL DOOR STEEL PADLOCK	35
	DIGITAL LOCK	11 S	SAFETY PINS FOR SWING DOORS	16
	DISC BRAKE PADLOCK	39	SLIM NUMBERS	18
	DISC COMBINATION PADLOCK	39	SOLID BRASS PADLOCK	36
	DOOR GUARD	15	SOLID BRASS PADLOCK LONG SHACKLE	36
	DOOR GUARD WITH CHAIN	16	SOLID BRASS PADLOCK SHORT SHACKLE	36
	DOOR HANDLE SET	6	SOLID DRAWER PULL BARS	30
	DOOR HASP	16	SOLID PADLOCK	36
	DOOR SEAL	17	STAINLESS STEEL HINGES	5
	DOOR STOP	17	STEEL PADLOCK SHORT SHACKLE	32
	DOOR VIWER	16	STRAIGHT HINGE	28
	DOUBLE ACTION HINGES	13	SUPPORT SETS	27
	DOUBLE HAT HOOK	27	SURFACE RIM LOCKS	20
E	ELECTRIC STRIKE	21	SWEEP ONE TOUCH	14
	EURO LINE		TUBULAR HANDLE ENTRY AND BEDROOM	10
F	FURNITURE LOCKS	26	TUBULAR HINGES	24
	GATE TROLLEYS	24	TUBULAR KNOBS	10
	HANDLE SET	6	TWO-DIMENSIONAL SOFT CLOSING HINGES	28
•	HAT HOOK		UNIVERSAL BARS	15
	HIGH LEVER PADLOCK		WATERPROOF PADLOCK SETS	37
	HIGH SECURITY PADLOCK	30	WATERPROOF PADLOCK SHORT SHACKLE	38
	HIGH SECURITY SURFACE LOCK	19	WINDOWS PIN	23
	THE TOLOUR TO CONTINUE LOOK	13	THEOTIC	LJ

HISTORY





With more than 115 years and based on a clear strategy of growth through quality, innovation, technology and diversification focus as the added value for our Customers, Distributors and employees today we have presence in more than 20 countries.

We continue with our commitment seeing the future with optimism and trying always to maintain our values of integrity, honesty and leadership to keep being the best Company in the hand tools market.

Urrea Group has 2 Divisions: "Valves Faucets and Ceramics" ("Providing Life to Water") and "Total Solutions in Tools and Locksmith products" both leading their market segment.









	BEGINNING	
1907	1963	1985
Valvulas Carroll is founded Carroll faucets).	Morris Pendelton, the owner of Pendelton Tool Industries (Proto*) and Raul Urrea, established a joint venture, Protomex, to manufacture Proto* tools in Mexico.	Urrea is launched as a superior quality tool Brand and Urrea Group was stablished.
	EVOLUTION	
1999	2003	2005
Surtek brand is launched nelping with diversification, Company growth and globalization.	Store Concept is developed as innovation concept to boost the way to sell and satisfy our Customer requirements.	Manufacturing facility for construction tools settled.
2006	2007	2009
ock brand is acquired, first	Grupo Urrea 100 years of	Investment in new

locksmith products in Mexico with more than 60 years of tradition.	Center is opened with technology and radiofrequen- cy WMS. pick to light processes.	hoses and metal boxes.
C	ONSOLIDATIO	N
2010	2012	2014
Test and Innovation Center is opened as our commitment to ensure quality of our products, components and raw materials.	The state of the s	1st place in the GPTW ranking for Mexico Center & West region as the "best place to work".

history. New Distribution

manufacturing facilities for

2013	2010
An extension of the Distribution Center is built and Distribution Center in San Antonio, TX is established.	Another extension of main Distribution Center is built.

manufacturing facility of

TR	RANSFORMATI	ON
2017	2018	2019
Fully automated section with pick to light, conveyors and improved processes implemented.	Platinum level accreditation in the M100 certificate recognition for companies that use 100% original software as well as IBM Power 9 solution implemented.	Certification as "Clean Industry" was accomplished. 40% increase in picking automated process.

	,	
2020	2021	2022
Operation Excellence to reduce energy costs. Automation and digitalization of processes as well as new technology acquired to go through the new conditions.	Surtek brand was introduced into the USA market. Expansion lands acquired for additional manufacturing facilities & investments in El Salto, Mexico.	Construcción of the additional manufacturing area in our facility that will allow us to increase our manufacturing capabilities of houses, ches drawers, metal tool boxes, wheal barrows, and any new products. A new distribution center in Colombia.



WARRANTY LOCK, PROLOK AND PROFORZA

Urrea Professional Tools and its locksmith division that the products offered are Proforza, Lock and Prolok brands are free from defects in workmanship and materials. We agree to replace or repair any product that has failed during its useful life due to defects attributable to workmanship and materials, provided that they are used under normal conditions and in accordance with the specific warranty of the particular product, free of charge and directly at the place of purchase or an authorized dealer.

Our locksmith product line are designed to offer the highest security to users and with the best quality. They are made by our highly competent, trained and experience personnel with the best material.

The guarantee is void if:

- The product has been used in conditions other than normal, due to the natural wear of its parts, maintenance and storage that leads to damage to the product due to humidity or dust that results in corrosion or erosion. In addition to any other post sale, transportation and handling activities.
- The product has not been installed or operated according to the accompanying instructions for use.

• The product has been altered by replacement of parts or repaired by unauthorized persons.

Our guarantee is subject to the following conditions:

- The products must be identified from their origin with the permanent brand **Proforza**, **Lock and Prolok**.
- That the failure was the result of a manufacturing defect, either in your workmanship or materials.

Proforza, Lock and Prolok reserve the right not to repair or replace the product that has been **abused**, **modified**, **exceeded or used incorrectly** or without proper maintenance.

Some products such as fittings, accessories, hinges, among others that contain moving parts are subject to wear and tear due to normal use, so it is expected that the user will replace these products after their useful life has expired.

PERFORMANCE TABLE Safety HIGH SECURITY STANDARD SECURITY Architectural Use Proforza, Lock and Prolok steel hinges are not responsible for personal injury and damage that may result from misuse, abuse, alteration or use beyond the expected life of its products.



1 2 3 4 5 6 7 8 9 10

STANDARD SECURITY Basic protection for

occasional and light use.

HIGH SECURITY

Enhanced protection for indoor and outdoor.

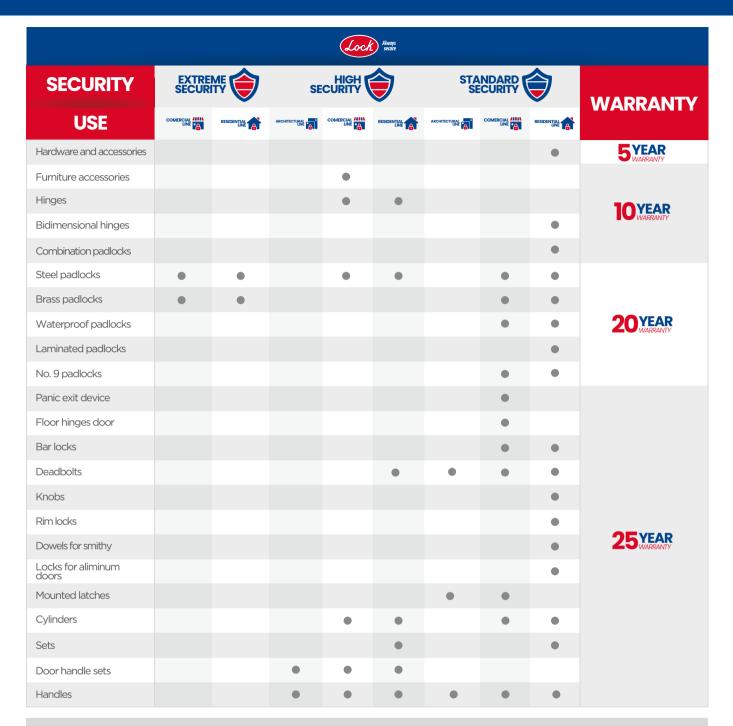
EXTREME SECURITY

Highest security in commercial and industrial applications.









ProForza

SECURITY	ARCHITECTURAL LINE		WARRANTY	SECURITY	ARCHITEC	TURAL LINE	WARRANTY
USE	SECURITY (STANDARD SECURITY		USE	SECURITY (STANDARD SECURITY	
Steel hinges		•	15 YEAR WARRANTY	Sets	•		50 YEAR
Locks	•		EOVEAR	Handles	•		30 WARRANTY
Cylinders	•		50 YEAR WARRANTY		* \\\.		



CATALOG LINES & ICONOGRAPHY

<u>ALWAYS</u>

WORKS

Locks and accessories designed to offer **security and tranquility** in high-traffic places such as offices, hotels, lounges, hospitals and more, manufactured under strict quality standards.



COMERCIAL



ALWAYS

Locks and accessories of great resistance and duration, which exceed the expectations of the user for their excellent performance and security. Designed and manufactured for residential use, focusing on meeting the needs of homes.



RESIDENTIAL



ALWAYS LEADING

Locks with **design and innovation** that make them the perfect option for projects of an avant-garde architectural line. Without leaving security aside.



ARCHITECTURAL LINE

PADLOCKS SECURITY FEATURES

Based on the conditions of use and handling, it indicates the characteristics contained in the padlocks.



KEYS

Indicates the type of keys and the number of copies that are supplied with the product.





CYLINDER

Indicates the type of key cylinder and the number of pins, keys, or discs that are made up of the product.





NEW PRODUCTS

Indicates families of new and improved products.



PRODUCT INFORMATION

Indicates technical information, uses and recommendations.



ARCHITECTURAL



VANGUARD SECURITY

ProForza

STAINLESS STEEL HINGES

SQUARE HINGE FLAT HEAD LOOSE BOLT











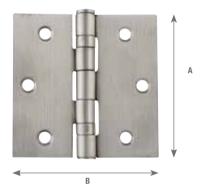


	A		В		Thickness		Number
	mm	inch	mm	inch	mm	inch	of holes
BICS20	51	2.00	51	2.00	1	0.06	2
BICS25	63	2.50	63	2.50	2	0.07	6
BICS30	76	3.00	76	3.00	2	0.08	6
BICS35	89	3.50	89	3.50	2	0.09	6
RICS/ID	101	4.00	101	4.00	2	1.00	8

- Bearing system.
 Installation screws included
- Smooth opening and closing.Corrosion high resistance.

ITEM	DIMENSIONS	HOLES	6	
BICS20	2" x 2"	2	10	
BICS25	2.5" x 2.5"	6	10	
BICS30	3" x 3"	6	10	
BICS35	3.5" x 3.5"	6	10	
BICS40	4" x 4"	8	10	













TAKING CARE

OF YOU



DOOR HANDLE SET



FUNCTION



Door handle set

Double function **Simple** function



Description:

The trigger or knob actuates the latch. The deadbolt latch is actuated by turning the key on the outside or inside.



Description:

The outer trigger or inner knob actuates the trigger latch. The latch latch is actuated by turning the key on the outside or the simple mechanism on the inside.

RECTANGULAR DOOR HANDLE SET

5PINS 2STANDARD ANSI 3

Adiustable latch.

Solid handle.

ITEM

11GA

10GA

· Solid brass cylinder.

Simple and double function.

Larch manufactured by high pressure zinc chromed.





FUNCTION

Double

Simple



















FINISH

Satin nickel

Satin nickel



DOOR HANDLE SET

OVAL DOOR HANDLE SET



INCLUDES INSTALLATION ACCESSORIES























- The deadbolt latch is made of hardened steel.
 Adjustable latch.
- Simple and double function.
- Solid brass cylinder.
- Latch manufactured by high pressure zinc chromed.
 Solid Handle.
- · Laminated shields of stainless steel.



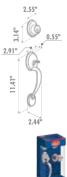












 5 Pins cylinder. 	IZUM		
ITEM	FUNCTION	FINISH	Ø
12GA	Simple	Satin nickel	1
13GA	Simple	Polished brass	1
1464	Simple	Antique brace	1

CHANTEL HANDLE WITH PLATE





Double













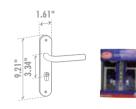


KEY TYPE

Standard

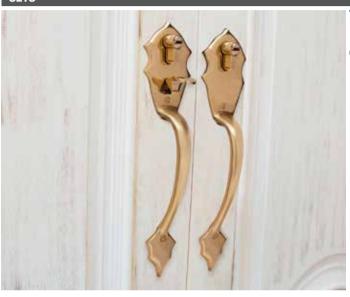


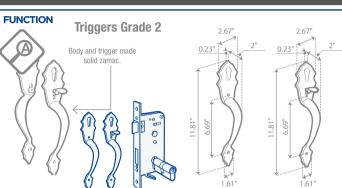






ITEM





Steel mortise mecha-Diagram nism, solid brass knob and European type cylinder with standard or dimpley key for residential and commercial security.

Features: Mortise mechanism with double-pass bolt.

European profile cylinder. Function:

Main entrance Description:

The mechanism is operated only with the key from the outside. The trigger or key actuates the mechanism from the inside.

CLASSIC SETS, HIGH SECURITY

















CLASSIC SETS, STANDARD SECURITY











































- Reversible latch made of high pressure zinc.
- Pull made of solid brass.
- Stuffing mechanism made of steel.

ITEM	FUNCTION	Ø		
	Polished brass			
L119QLB	Handle / trigger	1		





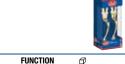






- Reversible latch made of high pressure zinc.
- Pull made of solid brass.

 Stuffing mechanism made of steel. 					
ITEM	FUNCTION	Ø			
Polished brass					
L119ELB	Handle / trigger	1			



Antique brass

Handle / trigger

L119ELA



HANDLE/TRIGGER CLASSIC



· Handle made of solid brass

ITEM	FUNCTION	Ø	
	Polished brass		
LH119LB	Handle / trigger	1	
	Antique brass		
LH119LA	Handle / trigger	1	

MORTISE MECHANISMS







- Reversible latch made of high pressure zinc.
- Stuffing mechanism made of steel.
- Trigger pull device.
- For wooden swing doors with a thickness from 1-3/8" to 1-3/4"

 • For right or left doors in new
- installations or for replacement.

ITEM	FUNCTION	Ø
	Polished brass	
LMG45QLB	Dot key	1
I MG45FI R	Standard key	1

EUROPEAN CYLINDERS 2.36", POLISHED BRASS









Solid brass cylinder







	ITEM	SECURITY	FUNCTIO
0	Includes	installation scr	ew.

ITEM	SECURITY	FUNCTION	0
LC60QLB	High	Key - Key	1
LC60ELB	Standard	Key - Key	1

EUROPEAN CYLINDERS 2.75", SATIN NICKEL









LC70ENS











•	PINS	- N	EIJ
0	Includes	installation	screw.

ITEM	SECURITY	FUNCTION	Ø
LC70QNS	High	Key -key	1
LCM70QNS	High	Keyed-turn button	1
LC70ENS	Standard	Key - key	1
LCM70ENS	Standard	Keyed-turn button	1
LCM70NS	Standard	Unkeyed-turn button	1

COMBOS (KNOB)



FUNCTION



Function: Double



Function: Simple



Description:

The combo includes a tubular bedroom knob lock and a double deadbolt. They both have the same key combination.

Description:

The combo includes a tubular chamber knob lock and a single latch. They both have the same key combination.

Features:

Latch with extra security mechanism. Latch whit anti-hack system. Outdoor key (both). Indoor key (deadbolt). Privacy indoor knob.

Features:

Latch with extra security mechanism. Latch whit anti-hack system. Outdoor key (both). Indoor turn button (both).

DEADBOLT AND LOCK COMBO







11CB











Simple













Inside







ITEM	FUNCTION Stainless steel	Ø	
	Stainless steel		
10CB	Double	1	
11CB	Simple	1	

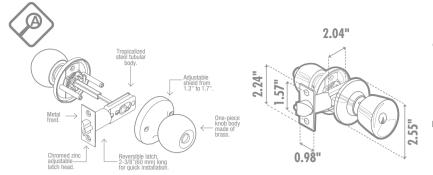
ITEM	FUNCTION Polished brass	Ø	
14CB	Double	1	
15CB	Simple	1	

Inside

15CB

ITEM	FUNCTION	Ø	
	Antique brass		
12CB	Double	1	
12CD	Cimple	1	

FUNCTION



Function:





Key-unkeyed Main entrance

External key.

Anti-panic system.

Features:

Bedroom

Features: Latch with security device. Latch with security device. External key. Anti-panic system. Inner privacy.

Key-turn button Slot-turn button Bathroom

Features: Standard latch. Inner privacy.

TUBULAR FLAT KNOB



19P0





23P0



22P0





Includes installation accessories.Brass cylinder.

ITEM	FUNCTION Stainless steel	Ø	
19P0	For bedroom	1	
20P0	For bathroom	1	

ITEM	FUNCTION	Ø	
	Polished brass		
23P0	For bedroom	1	
24P0	For bathroom	1	

ITEM	FUNCTION Antique brass	Ø	
21P0	For bedroom	1	
22P0	For bathroom	1	

TUBULAR BALL KNOBS





17P0





(I) Epins	STANDARD	ANSI 3
9	KEYS	GRADE 😈
 Include 	s installation acc	essories.

11P0

- Dragg Gyirragi.		
ITEM	FUNCTION	Ø
	Stainless steel	
12P0	For entry	1
10P0	For bedroom	1

For bathroom

ITEM	FUNCTION	Ø	
	Polished brass		
18P0	For entry	1	
16P0	For bedroom	1	
17P0	For bathroom	1	

ITEM	FUNCTION	Ø	
	Antique brass		
15P0	For entry	1	
13P0	For bedroom	1	
14P0	For hathroom	1	

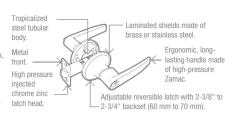


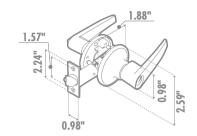


- FEATURES
- Tubular mechanism for easy installation.
- With adjustable handle to 2-3/8" to 2-3/4" with safety device.
- For use on doors from 1-3/8" to 1-3/4" thick.

Function: Key - turn button Bedroom

Function: Slot- turn button **Bathroom**





Features: Latch with security device. External key. Inner privacy.

Features: Standard latch. Outdoor Emergency. Device Indoor. Privacy Handle.

STRAIGHT HANDLES





















ITEM	FUNCTION	Ø	
	Satin nickel		
10MA	Bedroom / entrance	1	
11MA	Bathroom	1	

ITEM	FUNCTION	Ø
	Polished brass	
12MA	Bedroom / entrance	1
13MA	Bathroom	1

ITEM	FUNCTION	Ø
	Antique brass	
14MA	Bedroom / entrance	1
15MA	Bathroom	1

CURVE HANDLES

























ITEM	FUNCTION	Ø	ITEM	FUNCTION	Ø	
	Satin nickel			Polished brass		
16MA	Bedroom / entrance	1	18MA	Bedroom / entrance	1	
17MA	Bathroom	1	19MA	Bathroom	1	

_	ITEM	FUNCTION	Ø	
		Antique brass		
	20MA	Bedroom / entrance	1	
	21MA	Bathroom	1	

FLAT HANDLES



















FUNCTION	₽ E	
Satin nickel		
Bedroom / entrance	1	
Bathroom	1	
	Satin nickel Bedroom / entrance	Satin nickel Bedroom / entrance 1

HANDLE ANTI-PANIC BAR

















 Working side: right and left. · Handle material: zinc alloy.

ITEM	ı
24MA	

FUNCTION Spare part for 10BA KEY TYPE Standard

Ø

CYLINDRICAL HANDLES VERMONT























LR062B









• For use on wood and metal doors 1-3/8" to 1-3/4" thick.

• Fixed latch 2-3/8".

ITEM	FUNCTION	TYPE KEY	Ø	
LR062B	Key - unkeyed knob	Standard	1	
LR000B	Key - turn button	Standard	1	
LR030B	Unkeyed - turn button	Unkeyed	1	

LOCKS



















Digital with key









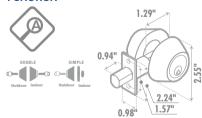
- Low consumption and vacation mode.
- Pin unlock technology and low battery alarm.
- Key operated latch or digital unlock from outside.Unlocking butterfly inside.

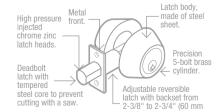
Easy programming.

ITEM OPENING Left and right



FUNCTION





RESIDENTIAL DEADBOLTS













5PINS	2STANDARD KEYS	ANSI 3
ITEM	FUNCTION	Ø
	Satin ni	ckel
12CE	Double	1

13CE

ITEM	FUNCTION	Ø	
	Polished b	rass	
16CE	Double	1	
17CE	Simple	1	

ITEM	FUNCTION	Ø
	Antique br	ass
1/105	Double	1

Simple

15CE

15CE







SQUARE ARCHITECTURAL HINGES

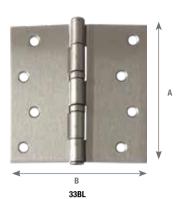


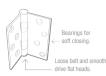












	I	A	В		Thic	kness	Number
DIMENSIO	NS mm	in	mm	in	mm	in	of holes
3x3"	76	3	76	3	2.15	.085	6
3.5x3.5"	89	3.50	89	3.50	2.15	.085	6
4x4"	101	4.00	101	4.00	2.5	.098	8
4.5x4.5"	114	4.50	114	4.50	3.4	.13	8

- 40% thicker than conventional ones.
- Smooth opening and closing.
- Greater load capacity.
- Made of steel.
- High quality luxury finishes.
- Loose bolt and 2 bearings.
 Two flat heads.

ITEM	EIIN
 Includes insta 	Illation screws.

Includes insta	Illation screws.		
ITEM	FUNCTION	Ø	
	Satin nickel		
31BL	3" x 3"	3	
32BL	3.5" x 3.5"	3	
33BL	4" x 4"	3	
34BL	4.5" x 4.5"	3	

SQUARE LOOSE BOLT HINGES WITH FLAT HEADS









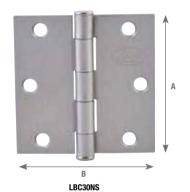




Loose bolt and smooth drive flat heads.

DIMENSIO	A NS mm	in	B mm	in	Thick mm	ness in	Number of holes
2x2"	51	2.00	51	2.00	1	0.06	4
2.5x2.5"	63	2.50	63	2.50	2	0.07	6
3x3"	76	3.00	76	3.00	2	0.08	6
3.5x3.5"	89	3.50	89	3.50	2	0.09	6
4x4"	101	4.00	101	4.00	2	1.00	8

ITEM	DIMENSIONS Satin nickel	Ø
I DOGGNIC	2" x 2"	40
LBC25NS	L X L	10
	2.5" x 2.5"	10
LBC30NS	3" x 3"	10
LBC35NS	3.5" x 3.5"	10
LBC40NS	4" x 4"	10



ITEM	DIMENSIONS Polished brass	Ø	
LBC20LB	2" x 2"	10	
LBC25LB	2.5" x 2.5"	10	
LBC30LB	3" x 3"	10	
LBC35LB	3.5" x 3.5"	10	
LBC40LB	4" x 4"	10	



LBC30LB



LBC30LA

PRICE PER PIECE

PRICE PER

- Made of steel.
- High quality luxury finishes.Loose bolt.
- Two flat heads.
- Includes installation screws.

	garage of	
Section 1		- 100

ITEM	DIMENSIONS	Ø	
	Antique brass		
LBC20LA	2" x 2"	10	
LBC25LA	2.5" x 2.5"	10	
LBC30LA	3" x 3"	10	
LBC35LA	3.5" x 3.5"	10	
LBC40LA	4" x 4"	10	

ELONGATED STUD BOLT HINGES WITH FLAT HEADS



ITEM

LBA10NI

LBA15NI

LBA20NI

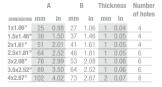
LBA25NI

LBA30NI

LBA35NI

LBA40NI





DIMENSIONS

1" x 1.06"

1.5" x 1.46"

2" x 1.61"

2.5" x 1.81"

3" x 2.08"

3.5" x 2.52

4" x 2.87"

Nickel



Riveted bolt and smooth drive flat heads.

Ø

10

10

10

10

10

10

10



ITEM	DIMENSIONS	Ø	
	Polished brass		
LBA10LB	1" x 1.06"	10	
LBA15LB	1.5" x 1.46"	10	
LBA20LB	2" x 1.61"	10	
LBA25LB	2.5" x 1.81"	10	
LBA30LB	3" x 2.08"	10	
LBA35LB	3.5" x 2.52"	10	
LBA40LB	4" x 2.87"	10	

LBA35NI



LBA35LB



- Made of steel. High quality luxury finishes.
- Riveted bolt.
- Includes installation screws



IIIGIUUGS IIISta	iliation solows.	•	
ITEM	DIMENSIONS	Ø	
	Antique brass		
LBA15LA	1.5" x 1.46"	10	
LBA20LA	2" x 1.61"	10	
LBA25LA	2.5" x 1.81"	10	
LBA30LA	3" x 2.08"	10	
LBA35LA	3.5" x 2.52"	10	
LBA40LA	4" x 2.87"	10	

PRICE PER PIECE



DOUBLE ACTION HINGE SETS















- · Made of stainless steel.
- High quality finishes.
- · Includes screws and installation accessories.

•	For heavy use	and	adjustable	tension.
	Recidential			

- Resideridal.		
ITEM	DIMENSIONS	Ø
	Black	
10BR	3"	1
	Polished brass	
11BR	3"	1





MOUNTED LATCHES

MOUNTED LATCHES



10CE

0.07

6PINS 3CROSS

Bolt body, made of steel sheet.

1.58

2.42"

4.01"







11CE





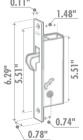




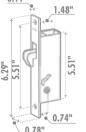














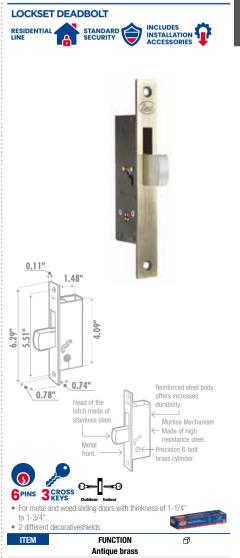
- Precision 6-bolt brass cylinder. Metal front. · Solid brass latch
- Includes two versions of decorative shields.

ITEM	FUNCTION Satin nickel	Ø
10CE	Double	1
	Black	
11CE	Double black	1



· 2 different decorative shields ITEM FUNCTION Satin nickel L2101NI Hook **Antique brass** L2101

L2102



Palette









Back check:

Final impulse regulating valve.

> Adjustable brake system that avoids collisions between the door and the wall.

Final boost: Mechanism that allows to regulate the closing speed.

both closing speed, final impulse and Back check function according to your needs.

Valve

regulation: Turn the valve with a

screwdriver to adjust

11BA

Sweep one touch 1 point

 Adjustable steel arm. Aluminum body.Anti-spill hydraulic cylinder.

 Opening range: 180°. · Closing speed and final blow adjustment screws

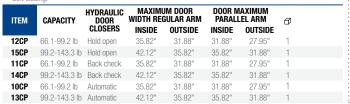
Soft closing

Hold open:

automatically.

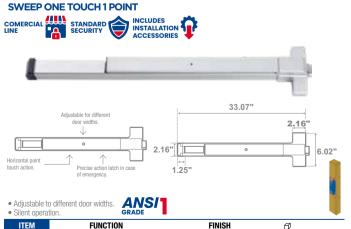
Mechanism that allows

you to keep the door open

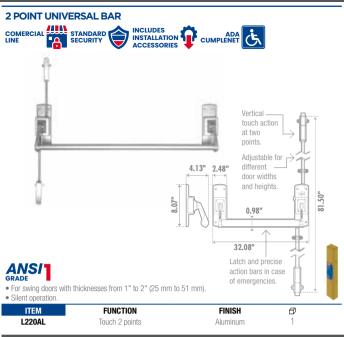


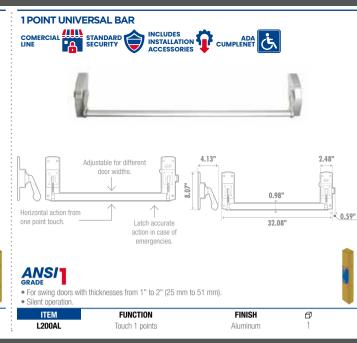






Aluminum





DOOR GUARD WITH CHAIN

L044CSB

L044LBB

L044LAB







• Smooth performance mechanism. · Reinforced chain for greater security.













Nickel

1.96"

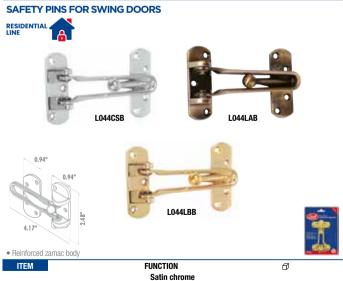
3.14"

4.72"

1.96"

Polished brass

ITEM	FUNCTION	Ø	
	Antique bi	ass	
L048LAB	Safety pin	1	



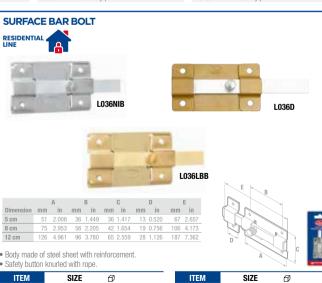
Safety

Safety

Polished brass

Antique brass

		denia
		5 cn 8 cn 12 c
۵.	•	Boo Saf



L036LBB

L038LBB

L035D

L036D

L038D

3.14"

4.72"

1.96"

3.14

Burnished brass

L035NIB

L036NIB

L038NIB

L035LBB

DOOR HASP

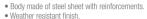
DOOR HASP







		Α		В		C		D		Е
DIMENSION	mm	in	mm	in	mm	in	mm	in	mm	in
1 3/4"	19	0.75	49	1.92	20	0.80	- 11	0.45	16	0.64
2 1/2"	25	1.00	63	2.49	31	1.23	27	1.07	17	0.69
3 1/4"	38	1.50	87	3.43	38	1.52	36	1.43	42	1.68
4 1/2"	38	1.50	115	4.56	37	1.47	35	1.38	42	1.65
6"	45	1.77	158	6.22	78	3.08	44	1.75	46	1.81





ITEM	FUNCTION	Ø
	Polished bra	SS
LPC134LBB	1-3/4"	1
LPC212LBB	2-1/2"	1
LPC314LBB	3-1/4"	1
LPC412LBB	4-1/2"	1

DOOR VIEWER

RESIDENTIAL LINE





LM200NSB

LM200LBB

LM200LAB



• For doors from 1.37" to 1.77" (1-3/8" to 1-3/4").

Brass body.
Lens with 200° angle of visibility.

ITEM	FINISH	Ø	
LM200NSB	Satin nickel	6	
LM200LBB	Polished brass	6	
LM200LAB	Antique brass	6	

DOOR STOP

MAGNETIC DOOR STOP







CATARINA TYPE STOP

RESIDENTIAL







L054LBB



L054LAB



• Spring stop with magnetic action that fixes the door in addition to protecting it.

 Includes screws a 	nd installation plugs.	-
ITEM	FUNCTION	Ø
	Satin nickel	
L1054LCS	From the floor	6



- · Zamac body.
- Rubber reinforcement for door protection.
 Includes screw and plug for installation.
- ITEM FUNCTION Satin chrome **L054CSB** From the floor 1



ITEM FUNCTION Antique brass L054LAB From the floor 1

KICK DOWN DOOR STOP













- Made of zamak with non-slip rubber tip.
 Includes screw and plug for installation.

ITEM	FUNCTION	Ø	
	Satin chrome		
L059CBB	For door	1	

ITEM	FUNCTION	Ø	
	Polished brass		
L059LBB	For door	1	

ITEM	FUNCTION Antique brass	Ø	
L059LAB	For door	1	

DOOR SEAL AUTOMATIC









- System that facilitates door opening and prevents rapid wear of the rubber.
 Prevents the entrance of dust, dirt, insects, rodents and drafts.
- Aluminum profile and high resistance PVC rubber.
- Easy to cut to install on smaller doors.

 For use on fro 	int doors, bedrooms, patios, balconies,	office, home, industry, etc.	50.	-11
ITEM	LENGTH	FINISH	Ø	
12GP	35.43"	Aluminum	10	
LGPA100A	39.37"	Aluminum	10	
LGPA100B	39.37"	White	10	
LGPA100N	39.37"	Black	10	
LGPA100D	39.37"	Golden	10	
14GP	39.37"	Bronze	10	

MAILBOXES

MAILBOXES



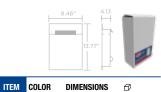






- Wide entrance for envelopes.
- Hinged collection door.
- Padlock holder.Weather resistant.

ITEM	COLOR	DIMENSIONS	Ø
10BZ	White 8	3.46" x 13.77" x 4.13"	1



Black 8.46" x 13.77" x 4.13" 1

11BZ

DOOR SEAL CLASSIC















- Prevents the entrance of dust, dirt, insects, rodents and drafts.
 Aluminum profile and high resistance PVC rubber.
- Easy to cut to install on smaller doors.
- BULK • For use on front doors, bedrooms, patios, balconies, office, home, industry, etc LENGTH

11210	LLITUIII	i iitioii	LP .	
10GP	35.43"	Aluminum	10	
LGP100A	39.37"	Aluminum	10	
LGP100B	39.37"	White	10	
LGP100N	39.37"	Black	10	
LGP100D	39.37"	Golden	10	

METAL BOXES FOR KEYS

KEYS BOXES















ITE

CLL:



STEEL GALIGE	CAPAC
• •	
🐃 🧠 🙈	
THE PERSONS	
V	

A		С	-
	T	$\overline{\Box}$	
•	В		
			L B

	С.	
$=$ \top	$\overline{\Box}$	@
• B		-
	Ш	No. of Concession,

wo.			
M	MATERIAL	STEEL GAUGE	CAPACI
36	Steel	0.7	36 key
60	Steel	0.7	60 key





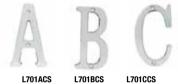




ITEM	FUNCTION	Ø
	Satin chrome	
L70AC	Letter A	5
L70BC	Letter B	5
L70CC	Letter C	5
L70DC	Letter D	5

LETTER 4" SLIM





Ď	V	
01BLB	L701CLB	

	1	COM.	C. Carlotte			Λ.
	L7	01ALB	L701BLB	L701CLB	10	Ĵ
ITEM	FUNCTION	Ø	ITE	M FUNCTION	N Ø	
	Satin chrome			Polished I	orass	
L701ACS	Letter A	5	L701/	ALB Letter A	5	
L701BCS	Letter B	5	L7011	BLB Letter B	5	
L701CCS	Letter C	5	L7010	CLB Letter C	5	
L701DCS	Letter D	5	L7011	DLB Letter D	5	

NUMBER 4" BOLD

L601C





L603C

ITEM	FUNCTION	Ø
	Satin chrome	
L600C	Number 0	5
L601C	Number 1	5
L602C	Number 2	5
L603C	Number 3	5
L604C	Number 4	5
L605C	Number 5	5
L606C	Number 6	5
L607C	Number 7	5
L608C	Number 8	5
I 609C	Number 9	5

L602C

NUMBER 4" SLIM





L6801CS L6802CS L6803CS

ITEM	FUNCTION	Ø
	Satin chrome	
L6800CS	Number 0	5
L6801CS	Number 1	5
L6802CS	Number 2	5
L6803CS	Number 3	5
L6804CS	Number 4	5
L6805CS	Number 5	5
L6806CS	Number 6	5
L6807CS	Number 7	5
L6808CS	Number 8	5
L6809CS	Number 9	5

L6801LB L6802LB L6803LB



ITEM	FUNCTION	Ø
	Polished brass	
L6800LB	Number 0	5
L6801LB	Number 1	5
L6802LB	Number 2	5
L6803LB	Number 3	5
L6804LB	Number 4	5
L6805LB	Number 5	5
L6806LB	Number 6	5
L6807LB	Number 7	5
L6808LB	Number 8	5
L6809LB	Number 9	5

RIM LOCK

FUNCTION





DETERMINE THE DIRECTION OF THE DOOR

The opening direction of the doors is determined by standing on the outside of the room facing the door and observing the position of the hinges, if the hinges are placed on the right side, the door is right, while if

they are placed on the left side will be the left door.



EASY INSTALL SYSTEM

The outer cylinder is attached to the lock body, this system reduces installation time, especially in new installations.

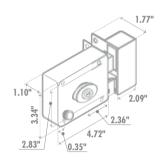


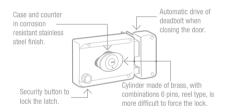
CLASSIC SYSTEM

The outer cylinder is separated from the main body, this system favors the installation for replacements in old or current installations.

LOCK, DEADBOLTS AUTOMATIC HIGH SECURITY

FUNCTION





LOCK, 2 DEADBOLTS AUTOMATIC HIGH SECURITY COMERCIAL EXTREME SECURITY











- · Automatic activation when the door is closed
- · Case and counter in corrosion resistant stainless steel.
- · Lock button.

ITEM L7725ADBIN

FUNCTION FINISH



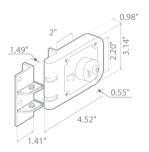
- · Automatic activation when the door is closed
- · Case and counter in corrosion resistant stainless steel.
- Lock button.

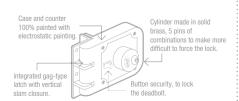
ITEM L7725ATAIN FUNCTION

FINISH



FUNCTION





SLIDING DOOR RIM SURFACE LOCK, SIMPLE CYLINDER











- Iron body with weldable base.
- Jimmy proof style deadlock with integrated latch and deadbolt.

Lock button.

ITEM	FUNCTION	FINISH	Ø	
L520DGS	Right	Gray	1	
L520IGS	Left	Gray	1	

SLIDING DOOR RIM SURFACE LOCK, DOUBLE CYLINDER

















RIM LOCK STANDARD KEY NICKEL SATIN FINISHED

Riaht

Left

Right

Left

· Pin combination.

• Two deadbolts for more security. Integrated cylinder.

RIM LOCK STANDARD KEYS WITH 2 DEADBOLTS RESIDENTIAL ,







ITEM

32CS

33CS

34CS

35CS







ITEM	FUNCTION	PACKAGE	Ø	
29CS	Right	Blister	1	
28CS	Left	Blister	1	
31CS	Right	Color box	1	
30CS	Left	Color box	1	

SURFACE RIM LOCK WITH STAINLESS STEEL EASY TO INSTALL

RIM LOCK TETRA KEY STAINLESS STEEL RESIDENTIAL LINE EASY INSTALL

Cylinder cover stainless steel.



Cylinder cover stainless steel.

RIM LOCK STANDARD KEY STAINLESS STEEL

Blister

Blister

Color box

Color box















Blister

Color box

Color box

FUNCTION

Right

Left

Right

Left

PACKAGE	Ø	
Blister	1	

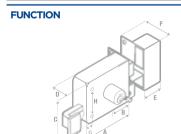
 Screw lock se 			
ITEM	FUNCTION	PACKAGE	Ø
10CS	Right	Blister	1
11CS	Left	Blister	1
12CS	Right	Color box	1
13CS	Left	Color box	1





 Screw lock se 				
ITEM	FUNCTION	PACKAGE	Ø	
14CS	Right	Blister	1	
15CS	Left	Rlister	1	

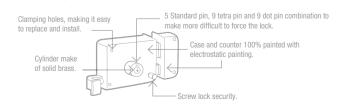
CLASSIC SURFACE RIM LOCK WITH STAINLESS STEEL



10PINS 3CROSS · Cover of stainless steel

· Latch of two steps.

	1111111	1111
Α	97	3.82
В	47	1.85
C	83	3.27
D	25	0.98
Е	37	1.46
F	47	1.85
G	9	0.35
Н	66	2.60



RIM LOCK TETRA KEY WITH STAINLESS STEEL

ITEM

16CS

17CS

18CS

19CS







Latchbolt of two steps

Cylinder cover stainless steel

Clamping holes, making it easy to replace and install.				
ITEM	FUNCTION	PACKAGE	Ø	
20CS	Right	Color box	1	
21CS	Left	Color box	1	





Color box

Left

Clamping holes, making it easy to replace and install.				
ITEM	FUNCTION	PACKAGE	Ø	
22CS	Right	Color box	1	
23CS	Left	Color box	1	





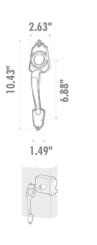


SURFACE HANDLE

DECORATIVE HANDLE FOR SURFACE LOCK







27CS





THE FUNCTION DETERMINES THE DIRECTION OF THE DOOR





The opening direction of the doors is determined by standing on the outside of the room facing the door and observing the position of the hinges, if the hinges are placed on the right side, the door is right, while if they are placed on the left side will be the left door.

FIXED BOLT LOCK

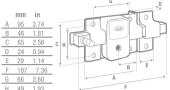


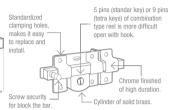
The bar can only be operated by means of the key to close or open.

OPEN BOLT LOCK



The bar can be manually moved to open or close once it is turned with the key 360 in open or closed position. Turn the key back another 360 to lock the





OPEN BOLTLOCK, TETRA KEY













L590ICB











ITEM	FUNCTION	FINISH	Ø	
L590DCB	Right	Polished chrome	1	
L590ICB	Left	Polished chrome	1	

OPEN BOLTLOCK, STANDARD KEY



















- 1110				
ITEM	FUNCTION	FINISH	Ø	
		Blister		
L570DCBB	Right	Polished chrome	1	
L570ICBB	Left	Polished chrome	1	
	C	olor box		
L570DCB	Right	Polished chrome	1	
L570ICB	Left	Polished chrome	1	



FIXED BOLTLOCK, TETRA KEY



















ITEM	FUNCTION	FINISH	Ø	
	E	Blister		
L580DCBB	Right	Polished chrome	1	
L580ICBB	Left	Polished chrome	1	
	Co	lor box		
L580DCB	Right	Polished chrome	1	
L580ICB	Left	Polished chrome	1	

FIXED BOLTLOCK, STANDARD KEY















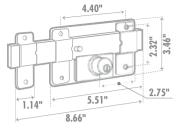


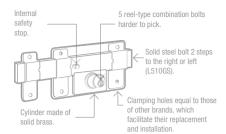


1,1210	•			
ITEM	FUNCTION	FINISH	Ø	
		Blister		
L560DCBB	Right	Polished chrome	1	
L560ICBB	Left	Polished chrome	1	
	C	olor box		
L560DCB	Right	Polished chrome	1	
L560ICB	Left	Polished chrome	1	

OPEN BOLT CURTAIN LOCK, DOUBLE LOCK







- Solid brass cylinder.
- Two-step bolt.
- Holding holes equal to other brands.

• IIILEIIIdi Sa	iety stop.
ITEM	
L510GS	

ГЕМ	FUNCTION
10GS	Double bolt



DOWELS FOR SMITHY





	Α	В	C	D
ITEM	in	in	in	in
LPM85	3.42"	0.59"	0.19"	3.59"
LPM100	4.13"	0.94"	0.19"	4.44"
LPM130	5.11"	1.10"	0.23"	5.82"
LPM145	5.74"	1.10"	0.23"	5.82"

- Easy to install with screws, rivets or solder.
- Open-close in 2 steps.
- For installation on left or right door.
 Die cut body in one piece.
- · Carbon steel bar.
- 14 gauge plate.

(U)	
75	

 Double drilled eyel 	BULK	
ITEM	DIMENSION	Ø
LPM85	3.34"	5
LPM100	3.93"	5
LPM130	5.11"	5
LPM145	5.70"	5

WINDOW PINS RESIDENTIAL & PAVEC1

. Body made of zamak, against for a better closure. Pin for folding windows.

ITEM	FINISH	DIMENSIONS	Ø
PAVEN1	Natural without strike plate	2.87"x 0.62"x 1.57"	10
PAVEN2	Natural with strike plate	2.87"x 0.62"x 1.57"	10
PAVEC1	Chrome without strike plate	2.95"x 0.62"x 1.57"	10
PAVEC2	Chrome with strike plate	2.95"x 0.62"x 1.57"	10

HIDDEN PIN FOR DOORS AND WINDOWS

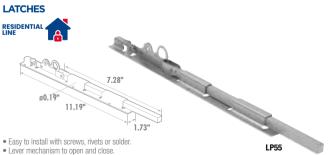


- 14 gauge sheet body, 1018 3/8 round stud, threaded bar for mechanism adjustment.
- To fix on blacksmith doors and windows.
 Galvanized finish.

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ITEM	DIMENSIONS	Ø	
PAOC	13.07" x 1.10"	10	

BULK

LATCHES



- With hole for padlock body die cut in one piece.
- 14 gauge steel plate.
 Solid 1/2 "square steel bar.

Tor use in gates, pars, doo	Tor use in gates, bars, doors, windows, large windows, etc.			
ITEM	DIMENSION	Ø		
LP30	11.81"	5		
LP40	15.74"	5		
LP55	21.61"	5		





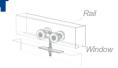
BULK



BULK

GATE TROLLEYS





	Diameter	Pellets	Body		Nut	Screw
	wheels			gauge		
PP500	1-7/8"	3/16"	3/4"	12	3/8"	3/8" x 3-11/16"
CP300	15/16"	1/8"	5/8"	14	5/16"	5/16" x 2-3/16"





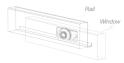
LCP500

LCP300

BULK

WINDOW TROLLEY





	Diameter	Pellets	Gauge	Drilling	
LCV20	7/8"	1/8"	14	3/16"	



- Wheel of 7/8" diameter steel and steel pellets.
 Holes of 3/16" To fix on window.
 Body of 14 gauge sheet of carbon steel.

BULK

ITEM	LOADING CAPACITY	Ø
LCV20	44.09 lb	10

STEEL HINGES FOR BLACKSMITH

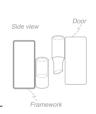
TUBULAR HINGES





- Coupling design.Installation with welding.
- Made of forged steel.
- Natural finished.
 To be used on metalics doors and windows

to be deed off frictation deeds and windows.				
ITEM	DIAMETER	Ø		
LBT38	3/8"	20		
LBT12	1/2"	20		
LBT58	5/8"	20		
LBT34	3/4"	10		
LBT1	1"	6		







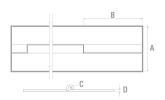
PIANO HINGES











Coil	A	D	U	D	Lengin
GUII	in	in	in	in	feet
LBP13	1	0.59	0.07	0.02	11.48
LBP23	1-1/4	0.59	0.07	0.02	11.48
LBP33	1-1/2	0.59	0.07	0.02	11.48
Sections					
LBP1	1	1.14	0.07	0.02	3.28
LBP2	1-1/4	1.14	0.07	0.02	3.28
LBP3	1-1/2	1.14	0.07	0.02	3.28



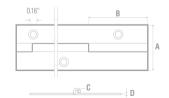
· Made of carbon steel.

ITEM	WIDTH	LENGTH	FINISH	Ø
LBP1	1"	3.28 ft	Natural	10
LBP2	1-1/4"	3.28 ft	Natural	10
LBP3	1-1/2"	3.28 ft	Natural	10
LBP13	1"	11.48 ft	Natural	1
LBP23	1-1/4"	11.48 ft	Natural	1
LBP33	1-1/2"	11.48 ft	Natural	1

PIANO HINGES WITH HOLES







	A	D	. 0	D	Lengui
			box		
	in	in	in	in	feet
LBP13H	1	0.59	0.07	0.02	11.48
LBP23H	1-1/4	0.59	0.07	0.02	11.48
LBP33H	1-1/2	0.59	0.07	0.02	11.48
	S	ection	ıs. baç	1	
LBP1H	1	1.18	0.07	0.02	3.28
LBP2H	1-1/4	1.18	0.07	0.02	3.28
LBP3H	1-1/2	1.18	0.07	0.02	3.28



- IVIUUC OI I	GUIDOII SIGGI.			-	
ITEM	WIDTH	LENGTH	FINISH	Ø	
LBP1H	1"	3.28 ft	Natural	10	
LBP2H	1-1/4"	3.28 ft	Natural	10	
LBP3H	1-1/2"	3.28 ft	Natural	10	
LBP13H	1"	11.48 ft	Natural	1	
LBP23H	1-1/4"	11.48 ft	Natural	1	
LBP33H	1-1/2"	11.48 ft	Natural	1	

















Key operated latch.For swing doors.

ITEM	FUNCTION	Ø
	Gray	
13CL	Double cylinder	1

ITEM	FUNCTION	Ø	
	White		
10CL	Double cylinder	1	

ITEM	FUNCTION	Ø
	Black	
11CL	Double cylinder	1

CLASSIC LINE

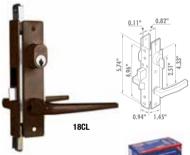
















 For swing 	g doors.		
ITEM	FUNCTION	Ø	
	Gray		
14CL	Turn button-cylinder	1	
15CL	Double cylinder	1	

ITEM	FUNCTION	Ø	
	White		
16CL	Turn button-cylinder	1	
17CL	Double cylinder	1	

ITEM	FUNCTION	Ø	
	Black		
19CL	Turn button-cylinder	1	
20CL	Double cylinder	1	

ITEM	FUNCTION	Ø	
	Brown		
18CL	Double cylinder	1	

COMMERCIAL LOCKS

















ITEM	DIMENSION	FINISH Hook	Ø	
22CL	1-7/64"	Aluminum	1	
24CL	61/64"	Aluminum	1	

FURNITURE LOCKS





















· For use in wood and metal furniture. ITEM FUNCTION

11CM

Flat latch

FINISH 0 Polished chrome

CABINET LOCK













- · For use in showcases and sideboards with sliding doors.
- · For use in glass or acrylic doors.
- Rubber protections

ITEM FUNCTION FINISH 0 26CM Cabinet Polished chrome

COMERCIAL HIGH SECURITY













· For use in cabinets, mailboxes and lockers



CLOSET ACCESSORY

DOOR HANGER SET DOUBLE





Double top rail.



- Manufactured from 14 gauge galvanized sheet.
- · Wheels made of nylon.
- Include stop, guide and screws
- For installation on right or left doors.
- Closet trolley compatible with JJ type rails on the market

· Easy sliding once installed.

	,	 	_
n	EM		E
CC	LOD		

BEARING 15/16"

MAXIMUN LOAD 🛭 66.1 lb x sheet

DOOR HANGER SET SIMPLE









- Manufactured from 14 gauge galvanized sheet.
- · Wheels made of nylon.
- . Include stop, guide and screws For installation on right or left doors.
- Closet trolley compatible with JJ type rails on the market.

· Easy sliding once installed

ITEM	BEARING	MAXIMUN LOAD	6
CCLOS	15/16"	66.1 lh x sheet	1

DOOR HANGER SET FOR FLOOR







Ø

- Manufactured from 14 gauge galvanized sheet.
- . Wheels made of nylon.
- Include stop, guide and screws
- For installation on right or left doors.
- Closet trolley compatible with JJ type rails on the
- market · Easy sliding once installed.





BEARING 15/16"

MAXIMUN LOAD 🛭 44 lb x sheet



CLOSET TROLLEY RAIL TT 4 BEARINGS









wheels.













- mounting system. · Includes adjusting screw.
- · Easy sliding once installed.
- Closet trolleys compatible with TT type rails.

· Easy installation

ITEM CCLORT4

BEARING 15/16"

BEARING NUMBER

0

BAG

CLOSET TROLLEY RAIL TT 2 BEARINGS







Quick door



wheels.

galvanized finish.

14-gauge sheet steel body.

- mounting system. Includes screw
- Easy sliding once installed
- · Closet trolleys compatible with TT type rails
- · Easy installation ITEM

CCLORT2

BEARING 15/16"

BEARING NUMBER



RIAL TT FOR CLOSET







RIALT2, RIALT3, RILAT2 and RILAT3 need the trolley rial CCLORT4 and CCLORT2.

- Sheet rail with gray paint finish.
- Natural finish aluminum rail.
- . Compatible with TT system trolley.
- It can be assembled to all kinds of closets.

Fasy	installation.	

Laby inotalia					
ITEM	MATERIAL	LENGHT	FINISH	Ø	
RILAT2	Caliber 22 sheet	3.3 ft	Liquid gray paint	1	
RILAT3	Caliber 22 sheet	8 ft	Liquid gray paint	1	
RIALT2	Aluminum	6.5 ft	Natural	1	
RIALT3	Aluminum	0.8 ft	Natural	1	

OVAL TUBE FOR CLOSET







- Aluminum tube compatible with BCLO.
- Natural finished.
- · Easy installation.
- For use in closet.
- · Aluminum tube, hollow and light.

ITEM	MATERIAL	LENGHT
TOLO2	ΑΙ	0.04#

HAT HOOK





- . Body made of zamak. . To hang clothes, hats, bags, etc.
- Includes screws for installation.

ITEM	MATERIAL	Ø	
10PE	Polished brass	10	
11PE	Satin nickel	10	

RIAL JJ FOR CLOSET

RESIDENTIAL &





- Sheet rail with gray paint finish.
- Natural finish aluminum rail.
- Compatible with TT system trolley.
- It can be assembled to all kinds of closets.
- Recommended to use with CCLOS or CCLOD.
- · Easy installation.





RILAJ2, RILAJ3, RIALJ2 and RIALJ3 no the trolley rial CCLOS and CCLOD.

	318
and	RIALJ3 need

BULK

ITEM	MATERIAL	LENGHT	FINISH	Ø
RILAJ2	Caliber 22 sheet	3.3 ft	Liquid gray paint	1
RILAJ3	Caliber 22 sheet	8 ft	Liquid gray paint	1
RIALJ2	Aluminum	6.5 ft	Natural	1
RIALJ3	Aluminum	9.8 ft	Natural	1

SUPPORT SET FOR OVAL TUBE





To hang clothes hooks in closet and also for curtain.

BAG

ITEM	MATERIAL	6
BCLO	Zamak	1

DOUBLE HAT HOOK

• Easy to install with screws or rivets.

• Includes screws.

Made of zamak.

• TCLO3 compatible.

BULK

0





12PE

- . Body made of zamak. To hang clothes, hats, bags, etc.
- Includes screws for installation.

ITEM	MATERIAL	Ø
12PE	Polished brass	10
13PE	Satin nickel	10

BIDIMENSIONAL HINGES

Piston.

Full coverage.

ITEM

LBD35RP

Includes screws.

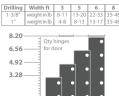
ITFM

LBD26R

LBD35R

Price per bag with 2 pieces

Oty hinges for door Ideal measures to drill the door



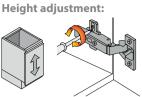




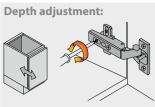
Three independent adjustment







ANGLED HINGE



BIDIMENSIONAL SOFT CLOSING HINGE



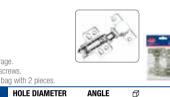
ANGLE

105°



Ø





1059

0





- Piston. Full coverage.
- Includes screws. Price per bag with 2 pieces
- HOLE DIAMETER ITEM LBD35AP 1-3/8"



1050



0

BIDIMENSIONAL HINGES

HOLE DIAMETER

1-3/8"





110°

Piston.

ITEM

LBD35CP

Full coverage.

Includes screws.

Price per bag with 2 pieces

1-3/8"







Price per han with 2 pieces

i noo por bag mar	E p100001
ITEM	HOLE DIAMETER
LBD26C	1-1/32"

ITEM	HOLE DIAMETER	ANGLE	Ø	
LBD26C	1-1/32"	95°	1	
LBD35C	1-3/8"	110°	1	



1-3/8"





BULK







- · Zamac body.
- Screws included.Total length 4.24"

ITEM

LJ1C01N

DISTANCE BETWEEN SCREWS FINISH 0 10 Satin nickel 3-63/64"



Screws included.Total length 4.22"

BULK

DISTANCE BETWEEN FINISH 0 ITEM SCREWS LJ1C02B Polished brass 10 3-35/64"



- · Zamac body.
- Screws included.Total length 5.15"

FINISH ITEM

DISTANCE BETWEEN SCREWS 0 LJ1C06B Polished brass 10

MODERN HANDLES





Screws included.

DISTANCE BETWEEN SCREWS ITEM FINISH LJ1M01B Polished brass 10





• Total length 4.98".				BULK
ITEM	FINISH	DISTANCE BETWEEN SCREWS	Ø	
LJ1M04B	Polished brass	3.74"	10	
LJ1M04A	Antique brass	3.74"	10	





MODERN HANDLES









· Screws included.

ITEM	FINISH	DISTANCE BETWEEN SCREWS	Ø
	Solid	d stainless steel bar	
LJM124	Satin nickel	2.51"	10
LJM156	Satin nickel	3.77"	10
LJM188	Satin nickel	5.03"	10
LJM220	Satin nickel	6.30"	10
LJM252	Satin nickel	7.55"	10

	ITEM		FII
		_	
	OCIEVVS	Ш	iciuded

• Screws II	iciuded.			
ITEM	FINISH	DISTANCE BETWEEN SCREWS	Ø	
	Soli	d stainless steel bar		
LJM316	Satin nickel	10.07"	10	
LJM444	Satin nickel	15.11"	10	
LJM501	Satin nickel	17.63"	10	
LJM668	Satin nickel	23.93"	10	

 Screws in 	cluded.			
ITEM	FINISH	DISTANCE BETWEEN SCREWS	Ø	
	Hollo	w stainless steel bar		
LJM124H	Satin nickel	2.51"	10	
LJM156H	Satin nickel	3.77"	10	
LJM188H	Satin nickel	5.03"	10	
LJM220H	Satin nickel	6.30"	10	
LJM252H	Satin nickel	7.55"	10	

BUTTONS

CLASSIC BUTTONS





				BULK
M	FINISH	DIAMETER	Ø	
02R	Satin nickel	1.25"	10	



				BULK
ITEM	FINISH	DIAMETER	Ø	
 1.12C03N	Satin nickel	1 10"	10	





		LJ	12M01N		BULK
	ITEM	FINISH	DIAMETER	8	
:	LJ2M01N	Satin nickel	1.14"	10	
	LJ2M01B	Polished brass	1.14"	10	

HIGH SECURITY PADLOCK

HIGH SECURITY PADLOCKS, DISC KEY



















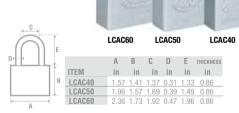














- Lock extra hard designed to places with high security requirements
- · Ideal to doors, fences, roll doors, storage boxes.
- Steel lock with 5 capes of coating and chrome finished.
 Thermical hardening fork resistent to cuts.
- Steel hardening body high resistant to all physical attacks type.
- · Resistant to cutters, saws, impacts, levers, bits, acid and hex wrenches.

ITEM	WIDTH	LEVEL	PINS	Ø	
LCAC40	1.57"	10	7	1	
LCAC50	1.96"	10	8	1	
LCAC60	2.36"	10	9	1	

HIGH-LEVER PADLOCKS, DISC KEYS





















L22A70DCSB L22A60DCSB L22A50DCSB L22A40DCSB



	Α	В	C	D	Ет	HICKNESS
ITEM	in	in	in	in	in	in
L22A40DCSB	1.57	1.96	0.78	0.27	0.39	0.78
L22A50DCSB	1.96	2.36	0.90	0.31	0.59	0.78
L22A60DCSB	2.36	2.75	1.06	0.35	0.70	0.78
L22A70DCSB	2.75	2.95	0.90	0.39	0.74	0.78



ITEM	WIDTH	LEVEL	Ø	
L22A40DCSB	1.57"	8	1	
L22A50DCSB	1.96"	9	1	
L22A60DCSB	2.36"	9	1	
L22A70DCSB	2.75"	9	1	



ARMORED HOOK PADLOCKS



























19CA

19CA

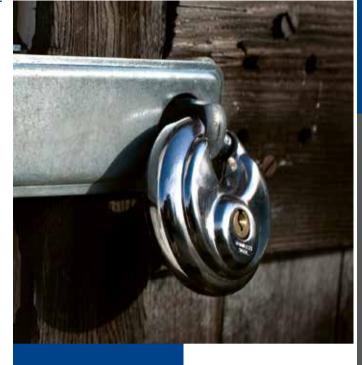


- · Lock with protected hook.
- Abloy (R) key.
- Solid brass cylinder.Lock doors, fences, chains.
- · Ideal to outdoor uses.

	ITTER		WIDTH	
•	Most reliab	ility.		
	oleel bouy	Lovereu n	Jy HylUH.	

*		Α	В	G	D	E TH	ICKNESS
	ITEM	in	in	in	in	in	in
(D) E	19CA	1.96	2.77	0.77	0.34	1.04	0.98
	20CA	2.55	3.48	25.40	1	0.42	1.14
B							

IVIOST reliabil	ITY.			100	
ITEM	WIDTH	LEVEL	DISCS	Ø	
19CA	1.57"	10	10	1	
20CA	1.96"	10	10	1	











			330	ж		
B						
<u> </u>		Α	В	C	D	WIDTH
	ITEM	mm	mm	mm	mm	mm
	55CA	109	46	36	14	34
<u></u>	56CA	109	67	36	14	34
Α						

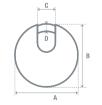


Short and long hook type.

IVIDAGO OF OLOGI.					
ITEM	WIDTH	LEVEL	PINS	Ø	
	:	Short shackle			
55CA	4.3"	10	5	1	
		Long shackle			
56CA	4.3"	10	5	1	







	Α	В	C	D	WIDTH
ITEM	mm	mm	mm	mm	mm
57CA	70	70	24	9.5	25



Maria and Maria
• —
40
(8)

Made of steel.					
ITEM	WIDTH	LEVEL	PINS	Ø	
57CA	2.75"	10	4	1	

SHORT SHACKLE PADLOCKS COMERCIAL STANDARD SECURITY SAW SHOCK SHOCK

























L9L38EGS

LONG SHACKLE PADLOCKS



L9L38ERJ







L9S38EGS

L9S38ERJ

L9S38EAZ

L9S38ENG

	Α	В	C	D	Е	THICKNESS
ITEM	in	in	in	in	in	in
L9S38EGS	1.49	1.41	0.71	0.27	1.06	0.82
L9S38ERJ	1.49	1.41	0.71	0.27	1.06	0.82
L9S38EAZ	1.49	1.41	0.71	0.27	1.06	0.82
L9S38EAM	1.49	1.41	0.71	0.27	1.06	0.82
L9S38ENG	1.49	1.41	0.71	0.27	1.06	0.82





	Α	В	C	D	Е	THICKNESS
ITEM	in	in	in	in	in	in
L9L38EGS	1.49	1.41	0.71	0.27	1.57	0.82
L9L38ERJ	1.49	1.41	0.71	0.27	1.57	0.82
L9L38EAZ	1.49	1.41	0.71	0.27	1.57	0.82
L9L38EAM	1.49	1.41	0.71	0.27	1.57	0.82
L9L38ENG	1.49	1.41	0.71	0.27	1.57	0.82



COLOR

Grav

Red

Blue

Black







ITEM	WIDTH	LEVEL	COLOR	Ø
L9L38EGS	1.49"	3	Gray	1
L9L38ERJ	1.49"	3	Red	1
L9L38EAZ	1.49"	3	Blue	1
L9L38ENG	1.49"	3	Black	1

2 PADLOCKS SET, SHORT SHACKLE STANDARD KEY 1-31/64"

STEEL PADLOCKS

4 PADLOCKS SET, SHORT SHACKLE STANDARD KEY 1-31/64"





WIDTH

1.49"

1.49"

1.49"

1.49



LEVEL







Ø

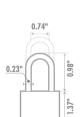














L22S384



PIECES

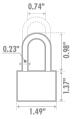


WIDTH

1.49"





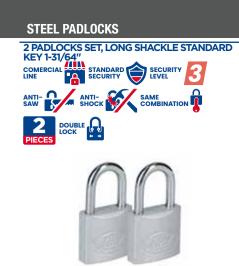


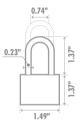


ITEM	
L22S382	



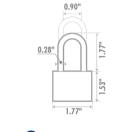
















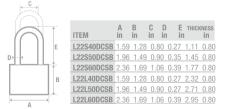












	7DISCS	3 ABLOY®
:	ITEM	WIDTH

ITEM	WIDTH	LEVEL	Ø	
	Short	shackle		
L22S40DCSB	1.59"	5	1	
L22S50DCSB	1.96"	6	1	
L22S60DCSB	2.36"	6	1	



STANDARD KEY PADLOCKS, BLISTER PACKAGE























STANDARD KEY PADLOCKS, BOX PACKAGE COMERCIAL STANDARD SECURITY SAW SHOCK SHOCK











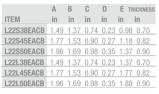














ITE	M	WIDTH	
INS (3 STAND	D><	

	Α	В	C	D	Етн	ICKNESS
ITEM	in	in	in	in	in	in
L22S38A	1.49	1.37	0.74	0.23	0.98	0.70
L22S45A	1.77	1.53	0.90	0.27	1.18	0.82
L22S50A	1.96	1.69	0.98	0.35	1.37	0.90
L22L38A	1.49	1.37	0.74	0.23	1.37	0.70
L22L45A	1.77	1.53	0.90	0.27	1.77	0.82
L22L50A	1.96	1.69	0.98	0.35	1.88	0.90

PINS



			Ø	
	Short shackle			
1.49"	3	4	1	
1.77"	4	5	1	
1.96"	4	5	1	
	Long shackle			
1.49"	3	4	1	
1.77"	4	5	1	
1.96"	4	5	1	
	1.77" 1.96" 1.49" 1.77"	1.49" 3 1.77" 4 1.96" 4 Long shackle 1.49" 3 1.77" 4	1.49" 3 4 1.77" 4 5 1.96" 4 5 Long shackle 1.49" 3 4 1.77" 4 5	1.49" 3 4 1 1.77" 4 5 1 1.96" 4 5 1 Long shackle 1.49" 3 4 1 1.77" 4 5 1

ROUND PADLOCKS, STANDARD KEY















COMERCIAL EXTREME SECURITY SECURITY SECURITY SAW SHOCK



















14	1
L22L65EACB	L22S65EACB

	D>
5 PINS 3 STANDARD	$ \begin{array}{c} A \end{array} $

	Α	В	C	D	Етн	ICKNESS
ITEM	in	in	in	in	in	in
L22S65EACB	2.55	2.20	0.94	0.39	2.44	1.10
L22L65EACB	2.55	2.20	0.94	0.39	3.54	1.10

3 KEYS	A				
ITEM	WIDTH	LEVEL	PINS	Ø	
		Short shackle			
L22S65EACB	2.55"	7	5	1	
		Long shackle			
1221 65FACR	2 55"	7	5	1	

	Short shackle						
L22S38A	1.49"	3	4	1			
L22S45A	1.77"	4	5	1			
L22S50A	1.96"	4	5	1			
		Long shackle					
L22L38A	1.49"	3	4	1			
L22L45A	1.77"	4	5	1			
1 221 504	1.06"	4	5	1			

LEVEL

STANDARD KEY PADLOCK

















Ø



These characteristics apply to: L22S63ELBB

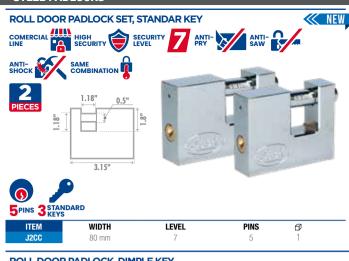




	Α	В	С	D	Етн	ICKNESS
ITEM	in	in	in	in	in	in
L22S32ELBB	1.25	1.18	0.62	0.19	0.70	0.55
L22S38ELBB	1.49	1.29	0.78	0.19	1.29	0.59
L22S50ELBB	1.96	1.57	1.02	0.27	1.49	0.78
L22S63ELBB	2.48	1.92	1.29	0.35	2.24	0.86



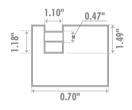
Brass tinish.					
ITEM	WIDTH	LEVEL	PINS	Ø	
L22S32ELBB	1.25"	3	4	1	
L22S38ELBB	1.49"	3	4	1	
L22S50ELBB	1.96"	4	5	1	
L22S63ELBB	2.48"	4	5	1	





ROLL DOOR PADLOCK, DIMPLE KEY











ROLL DOOR PADLOCKS, TETRA KEY









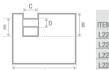












	Α	В	C	D	Е	THIC	KNESS
ITEM	in	in	in	in	in		in
L22C70TCSB	2.75	1.18	0.90	0.0	47	1.02	0.78
L22C80TCSB	3.14	1.37	1.14	4 0.	51	1.02	0.78
L22C70TLBB	2.75	1.18	0.90	0.	47	0.98	0.78
L22C80TLBB	3.14	1.37	1.14	4 0.	51	1.18	0.78

*	A	→	
(3)	No.		
PINS	CROSS		

Polished brass							

C T		Α	В	CI	D E	THICK	NESS
E Î D B	ITEM	in	in	in	in	in	in
<u> </u>	L22C70ECSB	2.75	1.18	0.78	0.47	0.98	0.78
	L22C80ECSB	3.14	1.37	1.18	0.51	1.18	0.78
	L22C70ELBB	2.75	1.18	0.78	0.47	0.98	0.78
	L22C80ELBB	3.14	1.37	1.18	0.51	1.18	0.78
A							



J. H. J. KEYS			-						
ITEM	WIDTH	LEVEL	Ø						
Satin chrome									
L22C70ECSB	2.75"	6	1						
L22C80ECSB	3.14"	7	1						
Polished brass									
L22C70ELBB	2.75"	6	1						
I 22CQUEI RR	3 1/1"	7	1						

TUBULAR KEY PADLOCKS COMERCIAL HIGH SECURITY SECURITY LEVEL 5 ANTI-PRY ANTI-SAW SHOCK ANTI- DOUBLE LOCK



	Α	В	C	D	Етн	ICKNESS
ITEM	in	in	in	in	in	in
L20S40BB	1.57	1.33	0.82	0.27	1.22	0.78
L20S50BB	1.96	1.45	1.06	0.31	1.45	0.74
L20S60BB	2.36	1.61	1.30	0.39	1.81	0.74
	L20S40BB L20S50BB	ITEM in L20S40BB 1.57 L20S50BB 1.96	ITEM in in L20S40BB 1.57 1.33 L20S50BB 1.96 1.45	ITEM in in in L20S40BB 1.57 1.33 0.82 L20S50BB 1.96 1.45 1.06	ITEM in in in in L20S40BB 1.57 1.33 0.82 0.27 L20S50BB 1.96 1.45 1.06 0.31	

7PINS 3WAI	FER S				100
ITEM	WIDTH	LEVEL	PINS	Ø	
L20S40BB	1,57 "	5	7	1	
L20S50BB	1,96"	6	7	1	
L20S60BB	2,36"	6	7	1	





C							
		Α	В	C	D	Етн	ICKNESS
_	ITEM	in	in	in	in	in	in
D)K	L20S40QB	1.57	1.33	0.82	0.31	1.22	0.86
	L20S50QB	1.96	1.45	1.06	0.35	1.57	0.86
	L20S60QB	2.36	1.61	1.29	0.39	1.81	0.94
· .*.							







c	1							
(())	E		Α	В	C	D	Етн	IICKNESS
D)<	-	ITEM	in	in	in	in	in	in
	*	L20S40TB	1.57	1.29	0.82	0.27	1.22	0.86
	В	L20S50TB	1.96	1.45	1.06	0.35	1.57	0.86
		L20S60TB	2.36	1.61	1.29	0.39	1.81	0.94
- Δ								

12PINS 3K	ROSS EYS				3.15
ITEM	WIDTH	LEVEL	PINS	Ø	
L20S40TB	1,57 "	5	12	1	
L20S50TB	1,96"	5	12	1	



	Α	В	C	D	Ет	HICKNESS
ITEM	in	in	in	in	in	in
L20S20EB	0.78	0.78	0.43	0.11	0.55	0.39
L20S25EB	0.98	0.94	0.51	0.15	0.66	0.39
13CA	1.57	1.29	0.82	0.24	1.11	0.55
15CA	1.57	1.29	0.82	0.24	1.11	0.55
L20L25EB	0.98	0.94	0.51	0.15	1.10	0.39
14CA	1.57	1.29	0.82	0.24	1.94	0.55



PINS 3	KEYS	KD.			-			
ITEM	WIDTH	LEVEL	PINS	Ø				
Short shackle								
15CA	1.57"	3	5	1				



PINS 3	STANDA KEYS	RD							
ITEM	WIDTH I	LEVEL	PINS	Ø					
Short shackle									
L20S20EB	0.78"	3	3	1					
L20S25EB	0.98"	3	3	1					
13CA	1.57"	3	5	1					
Long shackle									
L20L25EB	0.98"	3	3	1					
14CA	1.57"	3	5	1					



	Α	В	C	D	Етн	IICKNESS
ITEM	in	in	in	in	in	in
L20S30EB	1.18	1.10	0.63	0.20	0.83	0.51
L20S40EB	1.57	1.30	0.87	0.24	1.14	0.55
L20S45EB	1.77	1.38	0.98	0.28	1.34	0.55
L20S50EB	1.97	1.57	1.06	0.31	1.46	0.63
L20L30EB	1.18	1.10	0.63	0.20	1.30	0.51
L20L40EB	1.57	1.30	0.87	0.24	1.42	0.55
L20L45EB	1.77	1.38	0.98	0.28	1.89	0.55
L20L50EB	1.97	1.57	1.06	0.31	1.97	0.63
L20X30EB	1.18	1.10	0.63	0.20	2.87	0.51
L20X40EB	1.57	1.30	0.87	0.24	3.15	0.55
L20X50EB	1.97	1.57	1.06	0.31	3.07	0.63

ITEM	WIDTH	LEVEL	PINS	Ø				
	Sho	rt sha	ckle					
L20S30EB	1.18"	3	4	1				
L20S40EB	1.57"	3	5	1				
L20S45EB	1.77"	3	5	1				
L20S50EB	1.97"	4	5	1				
Long shackle								
L20L30EB	1.18"	3	4	1				
L20L40EB	1.57"	3	5	1				





U K	ETO				
ITEM	WIDTH	EVEL	PINS	Ø	
	Lon	g sha	ickle		
L20L45EB	1.77"	3	5	1	
L20L50EB	1.97"	4	5	1	
	Extra	long s	shackle		
L20X30EB	1.18"	3	4	1	
L20X40EB	1.57"	3	5	1	
L20X50EB	1.97"	4	5	1	

ROLL DOOR PADLOCK, STANDARD KEY



ANTI-SHOCK





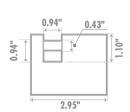
































	Α	В	C	D	E TH	HICKNESS
ITEM	mm	mm	mm	mm	mm	mm
43CA	1.18	0.51	1.12	0.19	0.86	0.63
44CA	1.57	0.57	1.34	0.25	1.19	0.87
45CA	1.77	0.63	1.46	0.28	1.38	0.95
46CA	1.97	0.77	1.63	0.31	1.44	1.10
47CA	2.36	0.83	1.81	0.35	1.79	1.26
48CA	1.18	0.51	1.12	0.19	1.77	0.63
49CA	1.57	0.57	1.34	0.25	2.13	0.87
50CA	1.77	0.63	1.46	0.28	2.56	0.95
51CA	1.97	0.77	1.63	0.31	2.44	1.10
52CA	2.36	0.82	1.81	0.35	3.09	1.25







< ≪ NEW





ITEM	WIDT
L20C75EB	2.95

VIDTH	LEVEL	PINS	Ø
2.95"	6	5	1



WIDTH	LEVEL	PINS	Ø	
	Short shackle			
1.18"	4	5	1	
1.57"	4	5	1	
	Long shackle			
1.18"	4	5	1	
2.36"	4	5	1	
	1.18" 1.57" 1.18"	Short shackle	Short shackle 1.18" 4 5	Short shackle 1.18" 4 5 1

LAMINATED PADLOCK

WATERPROOF PADLOCK SET, STANDARD KEY









































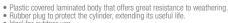
- Plastic covered laminated body that offers great resistance to weathering.
 Rubber plug to protect the cylinder, extending its useful life.
 Ideal for outdoor use.
 They open with the same key, ideal for use on double-padded curtains or for gates and rear doors.

ITEM	WIDTH	LEVEL	PINS	Ø	
18CA	1.57"	4	4	1	





J4CIL



CÓDIGO WIDTH LEVEL PINS





WATERPROOF PADLOCKS, STANDARD KEY















C25L40

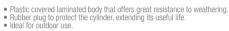
C25S40





	Α	В	C	D	E 1	THICKNESS
ITEM	in	in	in	in	in	in
C25S40	1.57	1.54	0.75	0.31	1.02	1.26
C25L40	1.57	1.54	0.75	0.31	2.13	1.26





ITEM	WIDTH	LEVEL Short shackle	PINS	Ø			
C25S40	1.57"	4	4	1			
Long shackle							
C25L40	1,57"	4	4	1			

LAMINATED PADLOCKS SET

















16CA





	Α	В	С	D	Етн	HICKNESS
ITEM	in	in	in	in	in	in
16CA	1.57	1.28	0.83	0.24	1.14	0.89
17CA	1.97	1.46	0.94	0.35	1.46	1.02





- Double lock.
- Hardened steel shackle.
 Solid brass cylinder.
 Reinforced laminated body.

High resistance and durability.
Hardened steel shackle that increases cut resistance.

LAMINATED PADLOCK, STANDARD KEY

8		
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150	#	_
	••	

ITEM	WIDTH	LEVEL	PINS	Ø	
16CA	1,57"	4	5	1	
17CA	1,97"	4	5	1	

COMERCIAL STANDARD SECURITY SAW SHOCK SHOCK

4 LAMINATED PADLOCKS SET





























- Double lock.Hardened steel hook.

- Harderleu sizer novo.
 Solid brass cylinder.
 Reinforced laminated body.
 High strength and durabilify.
 Hardened steel fork that increases resistance to cutting.
 Open with the same key, 5 pin, 4 pieces.



ME	DIE
40	mı













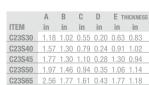


EMPAQUE 🕝 SUB DIST. MAYOREO MENUDEO











KLIS					
ITEM	WIDTH	LEVEL	PINS	Ø	
C23S30	1,18"	3	3	1	
C23S40	1,57"	3	3	1	
C23S45	1,77"	4	5	1	
C23S50	1,97"	4	4	1	
C23S65	2,56"	4	6	1	



C23S30

TSA PADLOCKS

















54CA











ITEM	WIDTH	COLOR	Ø
53CA	0,79"	Pink	1
54CA	1,18"	Black	1

COMBINATION SUITCASE PADLOCK





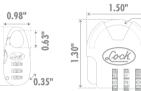


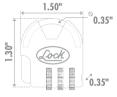


















- With change of comb	ii idiioi i.			
ITEM	WIDTH	LEVEL	Ø	
L21M20PT	0,98"	2	1	
L21M36	1,50"	2	1	

DIGITAL PADLOCK





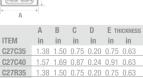






C27C40





C27R40 1.57 1.69 0.87 0.24 1.18 0.63

ITEM	WIDTH	LEVEL	FINISH	Ø	
C27C35	1,38"	3	Polished chrome	1	
C27C40	1,57"	3	Polished chrome	1	
C27R35	1,38"	3	Red	1	
C27R40	1,57"	3	Red	1	

COMBINATION PADLOCKS





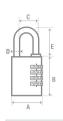














	Α	В	C	D	E TH	IICKNES
ITEM	in	in	in	in	in	in
10CA	0.79	1.18	0.59	0.12	0.98	0.39
11CA	1.18	1.20	0.63	0.16	1.00	0.43
12CA	1.57	1.42	1.38	0.20	1.30	0.51

- · Ideal for lockers and luggage

- Solid brass body and programmable discs.
 Iron short shackle.
 You can change the combination as many times as necessary.

rou ourr oriari	go the combination as many times as	1100000041 31		
ITEM	MEASURE	DISC QUANTITY	Ø	
10CA	0,79"	3	1	
11CA	1,18"	3	1	
12CA	1,57"	4	1	

DISC COMBINATION PADLOCK



















ITEM	WIDTH	LEVEL	PINS	Ø	
L26S50NGB	1,97"	3	Black	1	
L26S50RJB	1,97"	3	Red	1	
L26S50AMB	1,97"	3	Yellow	1	

LOCK FOR MOTORCYCLE

DISC BRAKE PADLOCK































C27R35

DISC BREAK PADLOCK



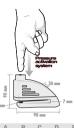


















- · Batteries included.
- Zinc body, chrome finish.
- Acconditionated disc blocked.
- Steel pin. Cylinder's solid brass body.
- Easy to use.
- The disc block the motorcycle movement.

BOLT TYPE LEVEL BODY ITEM 0 CASOD Button Chrome-zinc





INCLUDED BATERIES









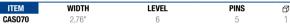






- Aluminum alloy body.
 Steel fork, chrome finish.
 Double lock.
 Batteries included.

- Batterless includes
 Easy to use.
 The alarm sounds when the padlock doesn't close correctly.
 High security dimple key.
 Solid brass body and 5 pins.



CABLE LOCK

CABLE LOCK WITH KEY













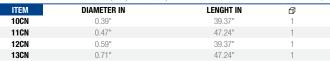








- Key with blue led light.
- PVC cover
- Includes 3 keys with 4 pins.
- Bike frame mount bracket included (except code 13CN)



COMBINATION WIRE LOCK

















Cylinder with combination of 4 numbers.Bike frame mount bracket included.

DIAMETER IN LENGHT IN ITEM 0 14CN 0.31 39.37 15CN 0.31" 47.24"



10BR	ITEM	PAGE	ITEM	PAGE	ITEM	PAGE
10BZ	10BA	14	13CA	36	17P0	9
10CA 39 13CL 25 18CS 20 10CB 8 13CN 40 18MA 10 10CD 11 13CP 14 40 18MA 10 10CE 13 13CS 20 19CA 31 10CL 25 13CA 6 19CL 25 10CN 40 13MA 10 19CS 20 10CP 14 13PE 27 14PA 10 10CS 20 19CA 31 10CS 20 13PO 9 19PO 9 10CG 20 25 10CA 31 10CP 17 14CB 8 20CL 25 20MA 10 10PC 27 14CL 25 20MA 10 10PC 9 14CN 40 20PO 9 11BA 14 14CP 14 21CA 39 11BA 14 14CP 14 21CA 39 11BB 13 14CS 20 21CL 25 20MA 10 11CB 8 14MA 10 21PO 9 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CP 14 15CE 11 22PO 9 11CC 25 25CS 21 11CM 26 15CD 36 22CS 21 11CD 39 15CD 30 30 30 30 30 30 30 3	10BR	13	13CB	8	18CA	37
10CB	10BZ	17	13CE	11	18CL	25
10CC	10CA	39	13CL	25	18CS	20
10CE	10CB	8	13CN	40	18MA	10
100L 25 13GA 6 19CL 25 10CN 40 13MA 10 19CS 20 10CP 14 13PE 27 19MA 10 10CS 20 13PO 9 19PO 9 19PO 9 10GA 6 14CA 36 20CA 31 10GP 17 14CB 8 20CL 25 20MA 10 14CE 11 20CS 20 10PC 27 14CL 25 20MA 10 10PC 9 14CN 40 20PO 9 11BA 14 14CP 14 21CA 39 11BR 13 14CS 20 21CL 25 20MA 10 11CB 38 14GP 17 21MA 10 11CB 8 14MA 10 21PO 9 11CC 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CP 14 15CL 25 23CL 25 25 23CL 25 25 25 25 25 25 25 2	10CD	11	13CP	14	18P0	9
TOCN	10CE	13	13CS	20	19CA	31
10CP	10CL	25	13GA	6	19CL	25
10CS 20 13PO 9 19PO 9 10GA 6 14CA 36 20CA 31 10GP 17 14CB 8 20CL 25 10MA 10 14CE 11 20CS 20 10PE 27 14CL 25 20MA 10 10PO 9 14CN 40 20PO 9 11BA 14 14CP 14 21CA 39 11BR 13 14CS 20 21CL 25 11BZ 17 14GA 6 21CS 20 11CA 39 14GP 17 21MA 10 11CB 8 14MA 10 21PO 9 11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11GA 6 15CP 14 23MA 10 11TMA 10 15CS 20 23PO 9 11TPE 27 15MA 10 25CS 21 11CA 39 16CA 38 22CS 21 11CA 25 15CA 36 22CS 21 11CC 25 15CA 36 22CS 21 11CC 25 15CA 36 22CS 21 11CD 3 15CD 3 20 11CP 14 15CL 25 23CL 25 11CS 20 15CM 40 23CS 21 11CA 39 16CA 38 22CS 21 11CA 39 16CA 38 22CS 21 12CA 39 16CA 38 22CS 21 12CA 39 16CA 38 24CS 21 12CB 8 16CC 11 24PO 9 12CC 11 24PO 9 12CC 25 15CM 26CS 21 12CM 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CA 6 17CA 38 28CS 20 12CA 20 12CA 6 17CA 38 28CS 20 12CA 20 12CA 26 20 12CA 27 12CA 38 28CS 20 12CA 20 12CA 26 47CA 38 28CS 20 12CA 26CA 26CA 26CA 26CA 26CA 26CA 26CA 2	10CN	40	13MA	10	19CS	20
10GA 6 14CA 36 20CA 31 10GP 17 14CB 8 8 20CL 25 10MA 10 14CE 11 20CS 20 10PE 27 14CL 25 20MA 10 10PO 9 14CN 40 20PO 9 11BA 14 14CP 14 21CA 39 11BR 13 14CS 20 21CL 25 11BZ 17 14GA 6 21CS 20 11CA 39 14GP 17 21MA 10 11CB 8 14MA 10 21PO 9 11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11CA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PP 27 15MA 10 11MA 10 15CS 20 23PO 9 11PP 27 15MA 10 11RA 10 15CS 20 23PO 9 11PP 27 15MA 10 11CN 9 15CS 20 23PO 9 11PP 27 15MA 10 11CN 9 15CS 20 23PO 9 11PP 27 15MA 10 11CN 9 15CS 20 23PO 9 11PP 27 15MA 10 24CL 25 11CCA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CB 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 25 12CP 14 16MA 10 26CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CA 6 17CA 38 28CS 20 12CA 20 12CP 14 16MA 10 26CS 20 12CP 17 17CE 11 29CS 20 12CM 26 12CP 17 17CE 11 29CS 20 12CM 26 12CP 17 17CE 11 29CS 20 12CM 20 12CM 20 12CM 20 17CL 25 30CS 20 12CM 20 12CM 20 12CM 20 17CL 25 30CS 20 12CM 20 12CM 20 15PO 9 27CS 21 12CA 20 16PO 9 27CS 21	10CP	14	13PE	27	19MA	10
10GP	10CS	20	13P0	9	19P0	9
10MA	10GA	6	14CA	36	20CA	31
10PE	10GP	17	14CB	8	20CL	25
10PO	10MA	10	14CE	11	20CS	20
11BA 14 14CP 14 21CA 39 11BR 13 14CS 20 21CL 25 11BZ 17 14GA 6 21CS 20 11CA 39 14GP 17 21MA 10 11CB 8 14MA 10 21PO 9 11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15CA 38 24CS 21 12CB 8	10PE	27	14CL	25	20MA	10
11BR 13 14CS 20 21CL 25 11BZ 17 14GA 6 21CS 20 11CA 39 14GP 17 21MA 10 11CB 8 14MA 10 21PO 9 11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8	10P0	9	14CN	40	20P0	9
11BZ 17 14GA 6 21CS 20 11CA 39 14GP 17 21MA 10 11CB 8 14MA 10 21PO 9 11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA ≪EE 10 12CB 8 16CE 11 24PO 9 12CE 11	11BA	14	14CP	14	21CA	39
11CA 39 14GP 17 21MA 10 11CB 8 14MA 10 21PO 9 11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CM 40 15CE 11 22PO 9 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 24C 25 12CB 8 16CE 11 24PO 9 2	11BR	13	14CS	20	21CL	25
11CB 8 14MA 10 21PO 9 11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CB 8 16CE 11 24PO 9 12CP 14 16MA 10 26CS 21 12CP 14	11BZ	17	14GA	6	21CS	20
11CE 13 14PO 9 22CL 25 11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CB 8 16CE 11 24PO 9 12CF 14 16MA 10 26CS 21 12CP 14 16MA 10 26CS 21 12GA 6	11CA	39	14GP	17	21MA	10
11CL 25 15CA 36 22CS 21 11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CB 8 16CE 11 24PO 9 12CF 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20	11CB	8	14MA	10	21P0	9
11CM 26 15CB 8 22MA 10 11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 24CS 21 12CB 8 16CE 11 24PO 9 12CB 8 16CE 11 24PO 9 12CF 11 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12MA	11CE	13	14P0	9	22CL	25
11CN 40 15CE 11 22PO 9 11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12MA 10 17CL 25 30CS 20	11CL	25	15CA	36	22CS	21
11CP 14 15CL 25 23CL 25 11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12MA 10 17CL 25 30CS 20	11CM	26	15CB	8	22MA	10
11CS 20 15CN 40 23CS 21 11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA ≪■■ 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12MA 10 17CL 25 30CS 20	11CN	40	15CE	11	22P0	9
11GA 6 15CP 14 23MA 10 11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	11CP	14	15CL	25	23CL	25
11MA 10 15CS 20 23PO 9 11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	11CS	20	15CN	40	23CS	21
11PE 27 15MA 10 24CL 25 11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	11GA	6	15CP	14	23MA	10
11PO 9 15PO 9 24CS 21 12CA 39 16CA 38 24MA ≪■■ 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	11MA	10	15CS	20	23P0	9
12CA 39 16CA 38 24MA ≪ ■ ■ 10 12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	11PE	27	15MA	10	24CL	25
12CB 8 16CE 11 24PO 9 12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	11P0	9	15P0	9	24CS	21
12CE 11 16CL 25 25CS 21 12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	12CA	39	16CA	38	24MA «NEW	10
12CN 40 16CS 20 26CM 26 12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	12CB	8	16CE	11	24P0	9
12CP 14 16MA 10 26CS 21 12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	12CE	11	16CL	25	25CS	21
12CS 20 16PO 9 27CS 21 12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	12CN	40	16CS	20	26CM	26
12GA 6 17CA 38 28CS 20 12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	12CP	14	16MA	10	26CS	21
12GP 17 17CE 11 29CS 20 12MA 10 17CL 25 30CS 20	12CS	20	16P0	9	27CS	21
12MA 10 17CL 25 30CS 20	12GA	6	17CA	38	28CS	20
	12GP	17	17CE	-11	29CS	20
	12MA	10	17CL	25	30CS	20
12PE 27 17CS 20 31BL 12	12PE	27	17CS	20	31BL	12
12PO 9 17MA 10 31CS 20	12P0	9	17MA	10	31CS	20

ITEM	PAGE	ITEM	PAGE	ITEM	PAGE
32BL	12	EC10	21	L20S25EB	36
32CS	20	EC11	21	L20S30EB	36
33BL	12	J2CC «NEW	35	L20S40BB	36
33CS	20	J2CCL «NEW	35	L20S40EB	36
34BL	12	J4CIL «NEW	37	L20S40QB	36
34CS	20	J4CL «NEW	33	L20S40TB	36
35CS	20	J4CLA «NEW	38	L20S45EB	36
43CA	37	L035D	15	L20S50BB	36
44CA	37	L035LBB	15	L20S50EB	36
48CA	37	L035NIB	15	L20S50QB	36
52CA	37	L036D	15	L20S50TB	36
53CA	39	L036LBB	15	L20S60BB	36
54CA	39	L036NIB	15	L20S60QB	36
55CA «NEW	31	L038D	15	L20S60TB	36
56CA «NEW	31	L038LBB	15	L20X30EB	36
57CA «NEU	31	LO38NIB	15	L20X40EB	36
BCLO	27	L044CSB	15	L20X50EB	36
BICS20	5	L044LAB	15	L2101	13
BICS25	5	L044LBB	15	L2101NI	13
BICS30	5	L048CSB	15	L2102	13
BICS35	5	L048LAB	15	L21M20PT	39
BICS40	5	L048LBB	15	L21M36	39
C23S30	38	L050TPCBB	26	L220AL	15
C23S40	38	L054CSB	16	L22A40DCSB	30
C23S45	38	L054LAB	16	L22A50DCSB	30
C23S50	38	L054LBB	16	L22A60DCSB	30
C23S65	38	L059CBB	16	L22A70DCSB	30
C25L40	38	L059LAB	16	L22C70ECSB	35
C25S40	38	L059LBB	16	L22C70ELBB	35
C27C35	39	L1054LCS	16	L22C70TCSB	35
C27C40	39	L119ELA	7	L22C70TLBB	35
C27R35	39	L119ELB	7	L22C80ECSB	35
C27R40	39	L119QLA	7	L22C80ELBB	35
CAS070	40	L119QLB	7	L22C80QCBB	35
CASOD	40	L200AL	15	L22C80TCSB	35
CCLOD	26	L20C75EB	37	L22C80TLBB	35
CCLOP	26	L20L25EB	36	L22L382	33
CCLORT2	26	L20L30EB	36	L22L38A	34
CCLORT4	26	L20L40EB	36	L22L38EACB	34
CCLOS	26	L20L45EB	36	L22L40DCSB	33
CLL36 ≪NEW■	17	L20L50EB	36	L22L452	33
CLL60 «MEN	17	L20S20EB	36	L22L45A	34

ITEM	PAGE	ITEM	PAGE	ITEM	PAGE
L22L45EACB	34	L580ICBB	22	L70BC	18
L22L50A	34	L590DCB	22	L70CC	18
L22L50DCSB	33	L590ICB	22	L70DC	18
L22L50EACB	34	L600C	18	L7725ADBIN	19
L22L60DCSB	33	L601C	18	L7725ATAIN	19
L22L65EACB	34	L602C	18	L77LB	21
L22S32ELBB	34	L603C	18	L9L38EAZ	32
L22S382	32	L604C	18	L9L38EGS	32
L22S384	32	L605C	18	L9L38ENG	32
L22S38A	34	L606C	18	L9L38ERJ	32
L22S38EACB	34	L607C	18	L9S38EAZ	32
L22S38ELBB	34	L608C	18	L9S38EGS	32
L22S40DCSB	33	L609C	18	L9S38ENG	32
L22S452	33	L6800CS	18	L9S38ERJ	32
L22S45A	34	L6800LB	18	LBA10LB	12
L22S45EACB	34	L6801CS	18	LBA10NI	12
L22S50A	34	L6801LB	18	LBA15LA	12
L22S50DCSB	33	L6802CS	18	LBA15LB	12
L22S50EACB	34	L6802LB	18	LBA15NI	12
L22S50ELBB	34	L6803CS	18	LBA20LA	12
L22S60DCSB	33	L6803LB	18	LBA20LB	12
L22S63ELBB	34	L6804CS	18	LBA20NI	12
L22S65EACB	34	L6804LB	18	LBA25LA	12
L26S50AMB	39	L6805CS	18	LBA25LB	12
L26S50NGB	39	L6805LB	18	LBA25NI	12
L26S50RJB	39	L6806CS	18	LBA30LA	12
L510GS	23	L6806LB	18	LBA30LB	12
L520DGS	19	L6807CS	18	LBA30NI	12
L520IGS	19	L6807LB	18	LBA35LA	12
L530DGS	19	L6808CS	18	LBA35LB	12
L530IGS	19	L6808LB	18	LBA35NI	12
L560DCB	22	L6809CS	18	LBA40LA	12
L560DCBB	22	L6809LB	18	LBA40LB	12
L560ICB	22	L701ACS	18	LBA40NI	12
L560ICBB	22	L701ALB	18	LBC20LA	12
L570DCB	22	L701BCS	18	LBC20LB	12
L570DCBB	22	L701BLB	18	LBC20NS	12
L570ICB	22	L701CCS	18	LBC25LA	12
L570ICBB	22	L701CLB	18	LBC25LB	12
L580DCB	22	L701DCS	18	LBC25NS	12
L580DCBB	22	L701DLB	18	LBC30LA	12
L580ICB	22	L70AC	18	LBC30LB	12

ITEM	PAGE	ITEM	PAGE	ITEM	PAGE
LBC30NS	12	LCM70ENS	8	LJM316	30
LBC35LA	12	LCM70NS	8	LJM444	30
LBC35LB	12	LCM70QNS	8	LJM501	30
LBC35NS	12	LCP300	24	LJM668	30
LBC40LA	12	LCP500	24	LM200LAB	16
LBC40LB	12	LCV20	24	LM200LBB	16
LBC40NS	12	LGP100A	17	LM200NSB	16
LBD135E	28	LGP100B	17	LMG45ELB	8
LBD165E	28	LGP100D	17	LMG45QLB	8
LBD26C	28	LGP100N	17	LP30	23
LBD26R	28	LGPA100A	17	LP40	23
LBD35AP	28	LGPA100B	17	LP55	23
LBD35C	28	LGPA100D	17	LPC134LBB	16
LBD35CP	28	LGPA100N	17	LPC134NIB	16
LBD35R	28	LH119LA	8	LPC212LBB	16
LBD35RP	28	LH119LB	8	LPC212NIB	16
LBDM	28	LJ1C01N	29	LPC314LBB	16
LBP1	24	LJ1C02B	29	LPC314NIB	16
LBP13	24	LJ1C06B	29	LPC412LBB	16
LBP13H	24	LJ1M01A	29	LPC412NIB	16
LBP1H	24	LJ1M01B	29	LPM100	23
LBP2	24	LJ1M02A	29	LPM130	23
LBP23	24	LJ1M03B	29	LPM145	23
LBP23H	24	LJ1M04A	29	LPM85	23
LBP2H	24	LJ1M04B	29	LR000B	11
LBP3	24	LJ1M06N	29	LR030B	11
LBP33	24	LJ1M12N	29	LR062B	11
LBP33H	24	LJ2C02R	30	PAOC	23
LBP3H	24	LJ2CO3N	30	PAVEC1	23
LBT1	24	LJ2M01B	30	PAVEC2	23
LBT12	24	LJ2M01N	30	PAVEN1	23
LBT34	24	LJ77LB	21	PAVEN2	23
LBT38	24	LJM124	30	RIALJ2	27
LBT58	24	LJM124H	30	RIALJ3	27
LC60ELB	8	LJM156	30	RIALT2	27
LC60QLB	8	LJM156H	30	RIALT3	27
LC70ENS	8	LJM188	30	RILAJ2	27
LC70QNS	8	LJM188H	30	RILAJ3	27
LCAC40	30	LJM220	30	RILAT2	27
LCAC50	30	LJM220H	30	RILAT3	27
LCAC60	30	LJM252	30	TCL03	27
LCHSSPE	7	LJM252H	30		





