

Ligature Resistant Locks



Ligature Resistant Rx Series

TownSteel is pleased to introduce the most complete line of Ligature Resistant Locks available today in the commercial contract hardware industry: ADA Ligature Resistant Levered Mortise Lock (MRX-L), ADA Ligature Resistant Arch Levered Mortise Lock (MRX-A), Levered Cylindrical Lock (TRX-L, HRX-L), Standard configuration Ligature Resistant Conical Knob Mortise Lock (MRX-K), and Conical Knob Cylindrical Lock (CRX-K). TownSteel also offers the only Ligature Resistant Rejuvenator Conical Knob lock retrofit trim set (RRX-K) which will retrofit most major brand mortise locks.





Contact us for more info.

Phone: 1-877-858-0888 Web: www.townsteel.com Email: sales@townsteel.com

Ligature Resistant Series Family

Grade 1 Mortise Lock -Lever



Grade 1 Mortise Lock - Knob



MRX-E-I



MRX-S-L



MRX-S-L



MRX-



Grade 1 Cylindrical Lock -Lever



MRX-E-K



MRX-S-K



MRX-S-K



Grade 1 Cylindrical Lock - Knob



HRX-L



TRX-L



Rejuvenator





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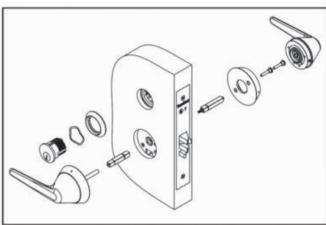
optional)

DRX

MRX-L ANSI Grade 1 Mortise Lock with Ligature Resistant Trim-Lever







- High quality stainless steel components
- Meets or exceeds all performance testing of ANSI A156.13 Grade 1 mortise locks
- Integral part of your Health/Safety and Accident Prevention programs
- Mortise is UL listed for a 3 hour fire door
- Clutching mortise
- Clutching function can be activated for I/S and / or O/S levers
- Outside clutching lever to protect lock against abuse and allow free rotation.
- Variety of mortise functions available to fit your unique security and safety requirements
- ADA turn piece, standard
- Tamper resistant mounting screws, standard
- Heavy duty escutcheon and sectional trim available
- Handing field reversible
- Schlage C keyway, standard
- Small Format 6 or 7 pin Interchangeable Core (SFIC) available
- 32D Finish



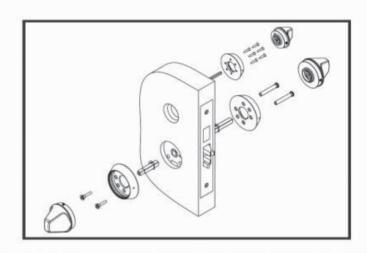


How To	o Order	
Trim		Resistant Lever Mortise-Escutcheon Trin Resistant Lever Mortise-Sectional Trim
Function	Please Refer to	Function Sheet
IC	IC	
1. Ligature Lever M Escutch 2. Function 3. IC (opt	Resistant lortise	MRX-E-L-04-IC

Important Note:

MRX-K ANSI Grade 1 Mortise Lock with Ligature Resistant Trim-Knob





- High quality stainless steel components
- Meets or exceeds all performance testing of ANSI A156.13 Grade 1 mortise locks
- Integral part of your Health/Safety and Accident Prevention programs
- Mortise is UL listed for a 3 hour fire door
- Variety of mortise functions available to fit your unique security and safety requirements
- Tamper resistant mounting screws, standard
- Heavy duty escutcheon and sectional trim available
- Schlage C keyway, standard
- Small Format 6 or 7 pin Interchangeable Core (SFIC) available
- 32D Finish



Trim		Resistant Mortise-Escutcheon Tri Resistant Mortise-Sectional Trim
Function	Please Refer to	Function Sheet
IC	IC	
Exam	ple	MRX-E-K-04-I
1. Ligature Knob M Escutch		
2. Function	on	
3. IC (opt		

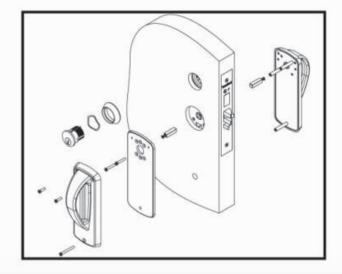
Important Note:



MRX-A ANSI Grade 1 Mortise Lock with Ligature Resistant Trim-Arch







- Designed for areas housing patients and individuals at risk.
- Meets or exceeds all performance testing of ANSI A156.13 Grade 1 mortise locks
- Mortise body is UL listed for a 3 hour fire door
- Ligature resistant, an integral part of your Health/Safety and Accident Prevention programs.
- 5 Point design: a 0.5mm diameter wire or greater cannot be attached to the lock from any direction (up, down, horizontal right, horizontal left or perpendicular to surface of the door).
- Heavy duty ligature resistant arch lever trim (requires handing).
- High quality stainless steel components.
- Tamper resistant security stainless steel mounting screws
- Variety of mortise functions available to fit your unique security and safety requirements.
- Horizontal or vertical trim mounting.
- ADA thumb turn, standard.
- Schlage C keyway, standard.
- Small format 6 or 7pin interchangeable Core (SFIC) available.
- US32D finish.





Trim	MRX-A Ligature Resistant Mortise Arch Lever Trim				
Function	Please Refer to Fun	ction Sheet			
IC	Small Format IC Le	ss Core (Optional)			
LH	Left Hand Door				
Exam	ple	MRX-A-04-IC-LF			
Mortise	Ligature Resistant Arch Lever Trim				
Mortise	Arch Lever Trim				
	I F-04 function ————————————————————————————————————	(Optional)			
	hand door				

Important Note:

Ligature Resistant Mortise Series

Funct	ions	r		*Levers rotate up and down freely in the locked or unlocked positions
Outside Inside	Series/ Function	Туре	ANSI No.	Function Description
	MRXL-01 MRXK-01	Passage or Closet	F01	Latch bolt operated by lever from either side at all times.
A)	MRXL-02 MRXK-02	Privacy or Bathroom	F02	Latch bolt operated by lever from either side. Dead bolt operated by turn from inside and emergency release from outside.
→ mose.	MRXL-04 MRXK-04	Entry/ Office	F04	Latch bolt operated by lever from either side, except when outside lever is made inoperative by a push button rocker. When outside lever is locked, latch bolt is retracted by key from outside or by operating inside lever. ***Auxiliary dead latch.
	MRXL-05 MRXK-05	Classroom	F05	Latch bolt operated by lever from either side, except when outside lever is locked from outside by key. When outside lever is locked, latch bolt may be retracted by key, or by operating key and outside lever or by operating inside lever. ***Auxiliary dead latch.
	MRXL-07 MRXK-07	Storeroom or Closet	F07	Latch bolt operated by key from outside or by rotating inside lever. Outside lever is always inoperative. ***Auxiliary dead latch.
A CONTRACTOR OF THE CONTRACTOR	MRXL-08 MRXK-08	Front Door or Corridor Lock	F08	Latch bolt operated by lever from either side, except when outside lever is made inoperative by a push button rocker. Dead bolt is operated by turn inside. Key outside operates both bolts.
A CONTRACTOR	MRXL-12 MRXK-12	Dormitory or Exit	F12	Latch bolt operated by lever from either side, except when outside lever is made inoperative by a push button rocker. Dead bolt projected by key from outside and by turn from inside. Deadbolt retracted by key from outside and by turn from inside. Operating inside lever retracts both bolts and outside remains locked.
	MRXL-13 MRXK-13	Dormitory or Exit	F13	Latch bolt operated by lever from either side. Dead bolt projected by key from outside and thumb turn from inside. Operating inside lever retracts both bolts and unlocks outside.

Ligature Resistant Mortise Series

*Levers rotate up and down freely in the locked or unlocked positions

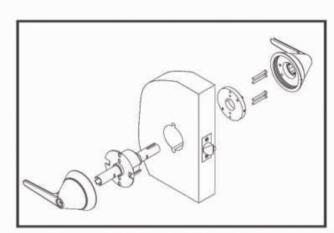
Func	tions	*		*Levers rotate up and down freely in the locked or unlocked position
Outside Inside	Series/ Function	Туре	ANSI No.	Function Description
	MRXL-14	Store Door Lock	F14	Latch bolt operated by lever from either side. Dead bolt operated by key from either side.
	MRXL-15 MRXK-15	Hotel or Motel	F15	Latch bolt operated by key from outside or by rotating inside lever. Outside lever is always inoperative. Dead bolt operated by thumb turn from inside and all keys except emergency and display key are shut out. Operating inside lever retracts both bolts. ***Auxiliary dead latch.
	MRXL-19 MRXK-19	Privacy or Bathroom	F19	Latch bolt operated by lever from either side. Dead bolt operated by turn from inside and emergency release from outside. Operating inside lever retracts both bolts.
	MRXL-20 MRXK-20	Apartment/ Corridor	F20	Latch bolt operated by lever from either side, except when outside lever is made inoperative by push button rocker. Dead bolt projected by key from outside and by thumb turn from inside. Key outside operates both bolts. Operating inside lever retracts both bolts and outside remains locked. Latch bolt is deadlocked when outside lever is made inoperative or when the dead bolt is projected. When dead bolt is retracted, lever is unlocked by stop or mechanical means other than key.
	MRXL-22 MRXK-22	Privacy	F22	Latch bolt operated by lever from either side, except when outside lever is locked by inside turn. Operating inside lever, closing door or operating outside emergency release unlocks outside lever.
	MRXL-26 MRXK-26	Institutional Privacy	F26	Latch bolt operated by lever from either side except when outside lever is locked by turn inside. Latch bolt operated by key outside with override of turn inside when manually held in locked position. Operating inside lever or closing door unlocks outside lever. ***Auxiliary dead latch.
	MRXL-29 MRXK-29	Classroom Dead Lock	F29	Key from outside operates dead bolt. Turn from inside retracts but does not project dead bolt.
	MRXL-30 MRXK-30	Institutional	F30	Latch bolt operated by key either side. Both levers always inoperative. ***Auxiliary dead latch.

Ligature Resistant Mortise Series

Functions ·				*Levers rotate up and down freely in the locked or unlocked positions
Outside Inside	Series/ Function	Туре	ANSI No.	Function Description
	MRXL-32 MRXK-32	Intruder Latch bolt	F32	Latch bolt operated by lever either side, except when outside lever is locked from inside or outside by key. When outside lever is locked, latch bolt is retracted by key from inside or outside or by operating inside lever. ***Auxiliary dead latch
	MRXL-33 MRXK-33	Intruder Dead bolt	F33	Latch bolt operated by lever either side, except when outside lever is locked from inside or outside by key. Dead bolt operated by key either side. Inside lever retracts both bolts and unlocks outside lever.
	MRXL-34 MRXK-34	Intruder Dead bolt	F34	Latch bolt operated by lever either side, except when outside lever is locked from inside or outside by key. Dead bolt operated by key either side. Operating inside lever retracts both bolts and unlocks outside. *** Auxiliary dead latch or latch bolt dead locked when dead bolt is thrown.
	MRXL-35 MRXK-35	Storeroom with Dead bolt	F35	Latch bolt operated by lever from either side, except when outside lever is made inoperative by a push button rocker. Dead bolt operated by key from either side.
A BO	MRXL-46 MRXK-46	Institutional Privacy with key locked feature		Latch bolt operated by lever from either side except when outside lever is locked by turn inside or key outside. Latch bolt operated by key outside with override of turn inside when manually held in locked position. Operating inside lever or closing door unlocks outside lever. ***Auxiliary dead latch.
	MRXL-RF MRXK-RF	Female Privacy RF		Latch bolt operated by lever from either side except when outside lever is locked from outside by key or inside turn. When outside lever is locked latch bolt may be retracted by inside lever or outside lever when unlocked by key. Inside lever retracts the latch bolt but does not unlock the outside lever.
	MRXL-LTF MRXK-LTF	Female Privacy LTF		Latch bolt operated by lever from either side except when outside lever is locked from outside by key or inside turn. When outside lever is locked latch bolt may be retracted by inside lever or outside lever when unlocked by key. Operating the inside lever or closing the door unlocks the outside lever.

HRX-L ANSI Grade 1 Cylindrical Lock with Ligature Resistant Trim-Lever





- Design impedes ability to attach laces, cords, and lines to the lever set
- Enhances opportunity to reduce accidents in health care facilities, detention centers and other potential high risk areas
- Designed to be an integral part of your Accident Prevention and Safety Program
- Outside clutching lever to protect lock against abuse and allow free rotation.
- Cylindrical is UL listed for a 3 hour fire door
- ADA compliant
- Meet or exceed ANSI 156.2-4000 Grade 1 Standard
- Tamper resistant mounting screws, standard
- Schlage C keyway, standard
- Small Format 6 or 7 pin Interchangeable Core (SFIC) available
- 32D Finish



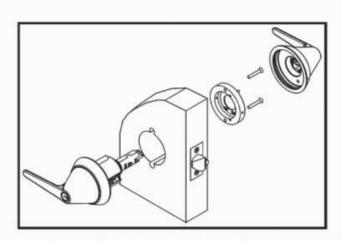


HOW I	Order						
Trim	HRX-L Ligature Resistant Lever Grade 1 Cylindrical Lo						
Function	Please Refer to Function Sheet						
ıc	ıc	ıc					
	e Resistant Cylindrical	HRX-L-81-IC					

Important Note:

TRX-L ANSI Grade 1 Cylindrical Lock with Ligature Resistant Trim-Lever





- Design impedes ability to attach laces, cords, and lines to the lever set
- Enhances opportunity to reduce accidents in health care facilities, detention centers and other potential high risk areas
- Designed to be an integral part of your Accident Prevention and Safety Program
- Outside clutching lever to protect lock against abuse and allow free rotation.
- Cylindrical is UL listed for a 3 hour fire door
- ADA compliant
- Meet or exceed ANSI 156.2-4000 Grade 1 Standard
- Tamper resistant mounting screws, standard
- Schlage C keyway, standard
- Small Format 6 or 7 pin Interchangeable Core (SFIC) available
- 32D Finish



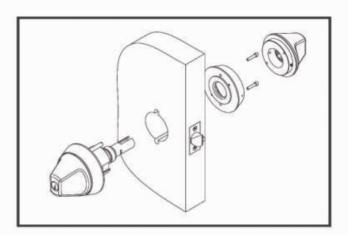


How To	Order						
Trim	TRX-L Ligature Resistant Lever Grade 1 Cylindrical Lo						
Function	Please Refer to Fu	inction Sheet					
IC	ıc	IC					
Exam	ple	TRX-L-81-IC					
Lever (Resistant Cylindrical on ———— ional)						

Important Note:

CRX-K ANSI Grade 1 Cylindrical Lock with Ligature Resistant Trim-Knob





All locks provided are non-handed and 3 hour UL fire listed. The latch and dead latch are sintered stainless steel. The lock chassis is heavy duty wrought steel construction. Springs are tensioned for knob use and provide long life and smooth operation. Knobs are of stainless steel construction. Locks meet all requirements for ANSI grade 1 series 4000 locks. Locks fit into a standard ANSI 161 door preparation. 32D Finish. Schlage C keyway, standard



How To	Order						
Trim	CRX-K Ligature Resista	ant Knob Grade 1 Cylindrical Lock					
Function	Please Refer to Fur	Please Refer to Function Sheet					
Exam	ple	CRX-K-84					
	e Resistant Cylindrical						
2. Functio	on ———						

Important Note:

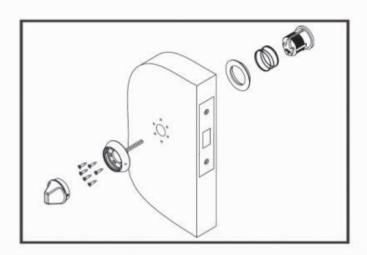


Ligature Resistant Cylindrical Series

Functions [,]			*Levers rotate up and down freely in the locked or unlocked positions	
Outside Inside	Series/ Function	Туре	ANSI No.	Function Description
	CRXK-81 HRXL-81 TRXL-81	Entry / Office	F81	Turn/Push button locking. Pushing and turning button locks outside lever or knob requiring use of key until button is manually unlocked. Pushing button locks outside lever or knob until unlocked from outside by key or operating inside lever or knob. Dead locking latch bolt.
	CRXK-84 HRXL-84 TRXL-84	Classroom	F84	Deadlocking latch bolt operated by lever or knob from either side except when outside lever or knob is locked from outside by key. When outside lever or knob is locked, latch bolt is operated by key in outside lever or knob or operating inside lever or knob.
	CRXK-86 HRXL-86 TRXL-86	Storeroom	F86	Deadlocking latch bolt operated by key in outside lever or knob or operating inside lever or knob. Outside lever or knob is always non-active.
	CRXK-87 HRXL-87 CRXL-87	Asylum	F87	Deadlocking latch bolt operated by key in lever or knob from either side. Both levers or knobs always non-active.
	CRXK-75 HRXL-75 TRXL-75	Passage / Closet	F75	Latch bolt operated by lever or knob from either side at all times.
	CRXK-76 HRXL-76 TRXL-76	Privacy	F76	Latch bolt operated by lever or knob from either side. Outside lever or knob is locked by push button inside and unlocked by emergency release outside, operating inside lever or knob or closing door.
	CRXK-72 HRXL-72 TRXL-72	Double Dummy	F72	Dummy lever or knob for inside and outside.
	CRXK-110	Classroom Intruder	F110	Deadlocking Latch bolt operated by knob from either side except when outside knob is locked from the inside or outside by key. When outside knob is locked latch bolt is operated by inside knob or unlocked by key in outside or inside knob.

DRX ANSI Grade 1 Mortise Deadbolt Lock with Ligature Resistant Thumb Turn





DRX Series- Heavy duty commercial quality deadbolt that provides a positive deterrent to forced entry. The health safety thumb turn design enhances opportunity to reduce accidents in health care facilities, detention centers and potential high risk areas. It is also designed to be an integral part of your Accident Prevention and Safety Program. Schlage C keyway, standard Small Format 6 or 7 pin Interchangeable Core (SFIC) available. 32D Finish. ADA Turn piece available

How To Order Trim DRX Ligature Resistant Knob Deadbolt Lock Function F09, F07, F18 Example DRX-18-ADA 1. Ligature Resistant Knob Deadbolt 2. Function 3. ADA Turn piece (Optional)

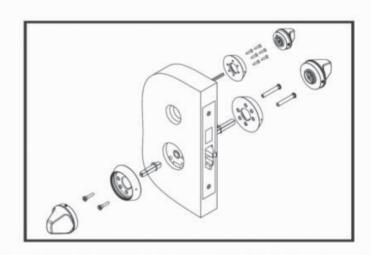
DRX Functions

ANSI F09	Deadbolt operated by key from outside and turn from inside turn retracts but does not project deadbolt
ANSI F07	Deadbolt operated by key from outside and turn from inside
ANSI F18	Deadbolt operated by turn from inside only, no trim on other side

Important Note:

RRX-K Ligature Resistant Knob Rejuvenator Retrofit Mortise Kit





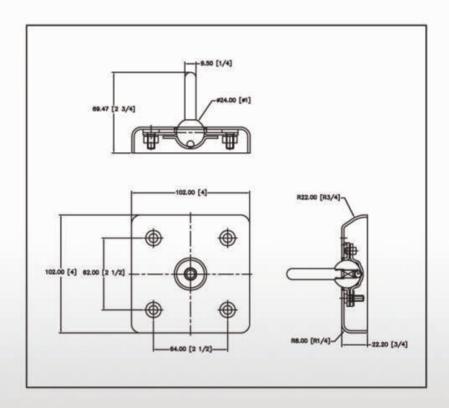
- Heavy Duty Ligature Resistant Knob Retrofit kit
- Convert existing through bolt mortises to an Ligature Resistant Knob lock set
- Fits all major mortise brands*
- Heavy Duty Stainless steel trim
- Maintain existing Keyways and Cylinders
- Part of your environmental Green program to recycle rather than replace entire locksets
- Save costs on conversion to Ligature Resistant
- *Fits- Arrow, Best, Corbin, PDQ, Marks, Sargent, Schlage, Falcon, Yale

Trim	RRX-5-K Ligature Resistant Knob Rejuvenator - Escutcheon Tri RRX-5-K Ligature Resistant Knob Rejuvenator - Sectional Trim				
T-Turn	TX - Ligature Resistant Thumb Turn				
Exar	nple	RRX-E-K-TX			
Knob I	re Resistant Rejuvenator- heon Trim				



VRH Ligature Resistant Hook





FEATURES

- Ldeal for hospital, school and other institutions
- 14 gauge heavy duty 18-8 S, type-304 stainless steel backplate
- Stainless steel pivoting ball joint releases when over 10lbs of force applied
- Pivoting ball tension adjustable
- Surface mounted
- Furnished with tamper resistant #14 x 1 1/2" wood screws
- Available finish: Satin Stainless Steel (US32D)

TDS Ligature Resistant Door Switch

TDS Door Switch -Ligature Resistant Device for facilities housing patients at risk



Use of full surface continuous hinge to reduce pinch points.

Existing hinge pocket used as wire chase and retrofitted with filler plate.



Strobe light placed above room door gives quick visual location.

Key switch with high security Medeco core deactivates and resets the alarm (remote keypad also available).

Key reset system at patient room assures patient safety.



Example of Basic Monitoring Keypad Console

BASIC MONITORING PANEL FEATURES

All wiring and alarm input/output devices are supervised to prevent tampering.

48 double door, 96 single door rooms available on single basic panel. Up to eight panels can be linked together to monitor a total of 384-788 rooms.

Keypad console audible indicator and two-line,32 character LCD display alerts an alarm condition or system trouble at nurses'station.

Main panel provides an event log (history log) that can store up to 512 events. Logged events can be viewed on keypad console.

NEW! Townsteel Door Switch

The TownSteel Door Switch is a patented design. (US Patent No.RE42,991)

For more information, please visit www.townsteel.com or call toll free at (877) 858-0888

Ligature Resistant Project References



MRX-L

- VA Medical Center, Murfreesboro, TN
- VA Medical Center, Nashville, TN
- VA Medical Center, Marion, IL
- VA Medical Center, Salt Lake City, UT
- VA Medical Center, Dayton, OH
- VA Hospital, Tampa, FL
- Forest View Hospital, Wyoming, MI
- Kingbrook Jewish Medical Center, Brooklyn, NY
- Capistrano Care Facility, San Juan Capistrono, CA
- Eastern L.I. Hospital, Greenport, NY
- New York Presbyterian Hospital, New York, NY
- Summit Ridge Hospital, Lawrenceville, GA
- VA Hospital, Tucson, AZ
- First Judicial District, Waterloo, IA
- Navy Medical Center Mental Health Bldg., San Diego, CA
- MSJ ER Psych Eval., Ashville, NC
- North Star Hospital, Anchorage, AK
- Pima Hospital, Tucson, AZ Johns Hopkins Hospital, Baltimore, MD
- Holly Hill Hospital, Raleigh, NC
- Jacobi Medical Center, Bronx, NY
- Meadows Hospital, Centre Hall, PA



MRX-K

- VA Hospital, North Chicago, IL
- University of Maryland Medical Center, Baltimore, MD
- NYP Adolescent Separation, New York, NY
- Gustavus Adolphus Home Jamestown, NY



HRX-L

- Southern Hills Hospital Las Vegas, NV
- St.Mary's Psych Russellville, AR
- Freeman Hospital Joplin, MO
- Jackson Healthcare System, Miami, FL
- Peachford Hospital, Atlanta, GA
- Wekiva Spring Mental Health Center Jacksonville, FL
- Coney Island Hospital, Brooklyn, NY



CRX-K

- Aurora Health Care, Wauwatosa, WI
- South Oaks Hospital, Long Island, NY
- Terre Haute Regional Hospital, Terre Haute, IN
- Oswego Hospital, Oswego, NY
- Research Psychiatric Center, Kansas City, MO
- West Central Georgia Regional Hospital, Columbus, GA
- Sentara Norfolk Hospital, Virginia Beach, VA
- KMC-Sycamore Hospital, Miamisburg, OH
- Long Island South Oaks Manor, Amityville, NY



DRX

- VA Central Alabama Medical Center, Montgomery, AL
- Charlotte Behavioral Health Care, Punta Gorda, FL



Other Ligature Resistant Products

- VA Medical Center, Marion, IL
- VA Medical Center, Murfreesboro, TN
- VA Medical Center, Jackson, MS
- Moberly Regional Hospital, Moberly, MO
- Dixie Regional Hospital, St. George, UT
- Fairfax Hospital, Falls Church, Virginia
- St. Elizabeth Medical Center, Youngstown, OH
- St. Joseph Medical Center, Towson, MD
- Carolina East Health Care, New Bertn, NC
- Northern Westchester Hospital, Mt. Kisco, NY
- Abington Hospital, Abington, PA
- Central State Hospital, Milledgeville, GA
- East Central Georgia Regional Hospital, Augusta, GA
- St. Mary's Hospital, Richmond, VA
- Larue D. Carter Memorial, Indianapolis, IN
- Hoboken Hospital, Hoboken, NJ
- Clarks Summit State Hospital, Clarks Summit, PA
- Memorial Hospital, Stillwell, OK
- Thomas B Finan Center, Cumberland, MD
- Balboa Hospital, San Diego, CA
- Capistrano Care Facility, San Juan Capistrono, CA
- Four Winds Hospital, Saratoga Springs NY
- Lutheran Social Services, Sioux Falls, SD
- Olean General Hospital, Olean, NY
- Kaiser Hospital, Los Angeles, CA
- Northwest GA Regional Hospital, Rome, GA
- Howard Community Hospital, Kokomo, IN
- Vanderbilt Hospital, Nashville, TN
- Friends Behavioural Health System, Philadelphia, PA
- Medical Center of McKinney & Wysong Campus, McKinney, TX
- Canyon Hills Center-Luth Social, Spearfish, SD
- Children's Hospital, Dallas, TX
- Sarasota Memorial Public Hospital, Sarasota, FL
- Lewis Gail Hospital, Salem, VA
- Nova House, Dayton, OH
- VA Hospital, Loma Linda, CA
- Harrisonburg-Rockingham Community Services Board, Harrisonburg, VA
- CPSA, Tucson, AZ
- Adventist Health, Rockville, MD
- North Memorial Med Center, Robbinsdale, MN
- Flushing Hospital Medical Center, Flushing, NY

