



WINDBREAKER

Residential Buyer's Guide

THE DOOR TO QUALITY.





In the midst of a storm, your garage door should be the least of your worries. The Windbreaker Series from C.H.I. offers the best in dependability, functionality, and style. The engineering team at C.H.I. is on the cutting edge of innovation in wind load technology, constantly testing doors in our ISO accredited wind-chambers to assure that your door will stand up to the toughest weather conditions.

DEPENDABLE. RESILIENT.

Made with only the finest materials and built by skilled craftsmen, all of our residential doors are designed with precision to add beauty and value to your home.



Pictured. 9' x 7' white 5531 doors

TOUGH. RELIABLE. LONG-LASTING.





CARRIAGE HOUSE COLLECTION

The carriage house style has been a fundamental design for decades. Whether it's the 5500 series fiberglass exterior or 5300 series pre-finished steel; you will always get the look of an old-world carriage house door. The numerous hardware, decorative window, and designer glass options will continue to add character and value to your home for years of trouble-free service.

Pictured. 16' x 7' 5534A almond with optional 2-2 pc. stockton windows and optional 2 sets of wrought iron hardware

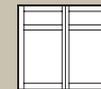


9' x 7' 5332A white with stamped exterior hardware and optional arched madison windows.

MODEL 5500 **Fiberglass Exterior**

MODEL 5300 **Pre-finished Steel Exterior**

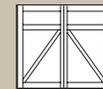
- The **5500** and **5300** exterior is factory-finished in three designer colors: white, almond or sandstone
- White painted end stiles are standard
- Interior is factory-finished in white
- Optional glass is available in clear glass, glue chip pattern or seeded glass
- Section joints utilize a ship-lap design for protection from the elements
- Concealed steel plates run continuously from top to bottom of each section for fastening hardware
- Stamped decorative hardware is standard for all doors or add optional Wrought Iron designs to replicate an old-world look
- **Model 5300 R-Value - 6.29***
Model 5500 R-Value - 6.29*



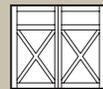
5331



5332



5333



5334



5531



5532



5533



5534

FEATURES

5500 DOOR CONSTRUCTION

Polystyrene insulation is sandwiched between high performance steel skins. The interior skin is always white. The exterior fiberglass skin is extremely impact-resistant and available in three designer colors.



**Calculated in accordance with ASHRAE standard formulas*

CHARACTER. TRADITIONAL.

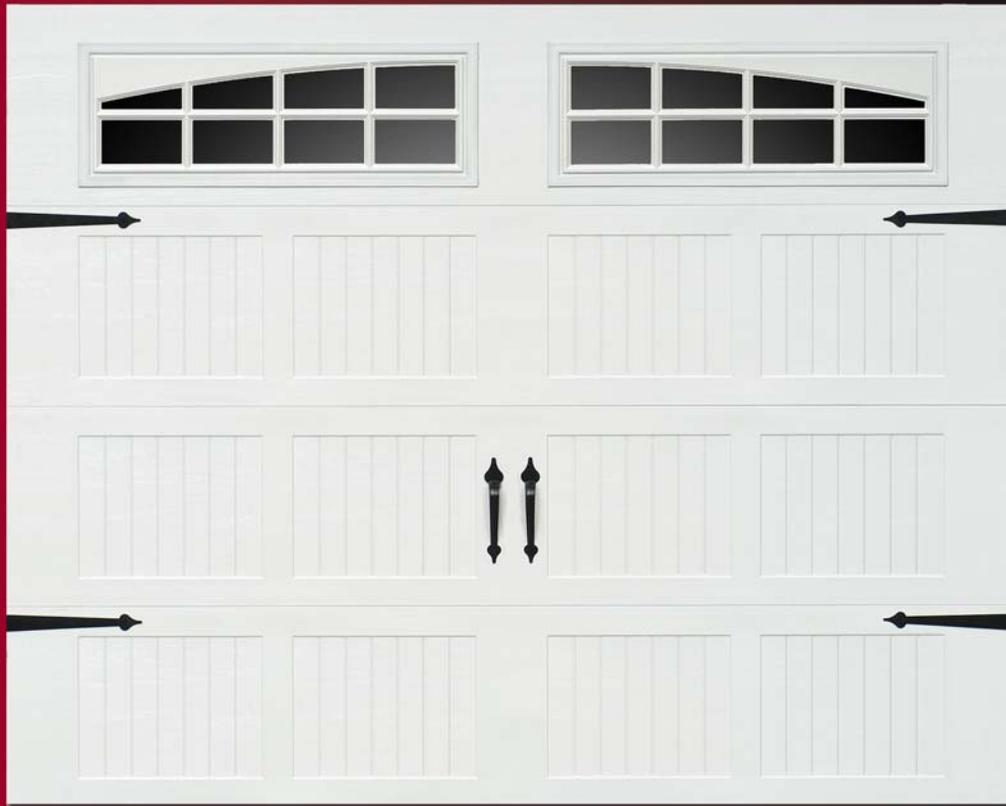




ALL-STEEL CARRIAGE HOUSE COLLECTION

The 5200 Series Steel Carriage House Door is truly an innovative product. Not only is it the premier carriage house door to be constructed entirely of steel, but it has been designed to give you, the homeowner, an historically accurate re-creation of the traditional wood carriage house door. C.H.I.'s Steel Carriage House Door provides the maintenance-free durability of steel and a limited lifetime warranty for years of worry-free protection. With a diverse collection of windows, hardware and color options, you can be certain to find the door that will complement your home perfectly.

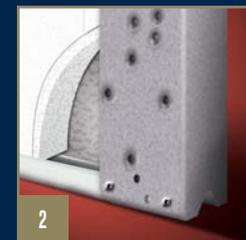
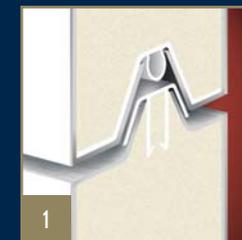
Pictured. 16' x 7' 5216 white with optional cascade windows and stamped hardware



9' x 7' 5240 white with stamped exterior hardware and optional arched stockton window inserts.

MODEL 5216	Insulated Polyurethane
MODEL 5240	Uninsulated, 24-Gauge
MODEL 5241	Insulated 1-3/8" Polystyrene

- **Model 5216** exterior skins are formed from 26-gauge galvanized draw quality steel and the interior is 27-gauge steel.
- **Models 5240/5241** offer the durability of tough 24-gauge draw quality steel in a pan-type product.
- **Model 5241** includes 1-3/8" polystyrene insulation, with a vinyl back cover
- Stamped decorative hardware is standard for all doors or add optional Wrought Iron designs to replicate an old-world look
- Glazing options include standard glass and glue chip glass with three optional insert designs
- **Models 5240/5241** inside stiles are made of galvanized steel and stile holes are "dimpled" for increased holding power
- All models are available in white, almond, sandstone or brown
- **Model 5241** R-value – 6.85*
Model 5216 R-value – 14.3*
- Patented design



FEATURES

DOOR CONSTRUCTION

(1) 5216 employs a high-density polyurethane injected core with a 26-ga. exterior and 27-ga. interior skins. (2) The 5241 utilizes 24-gauge exterior steel skin with 1-3/8" thick polystyrene foam insulation with a vinyl back cover.

5216R-value - 14.3* 5241R-value - 6.85*

*Calculated in accordance with ASHRAE standard formulas

ELEGANT. DURABLE.





THERMALLY-BROKEN, POLYURETHANE CORE SANDWICH DOOR

This exceptional line of garage doors incorporates a thermally-broken section design for superior climate protection. A 26-gauge exterior steel skin and 27-gauge interior steel skin filled with foamed-in-place polyurethane creates an extremely rigid barrier. A continuous section joint seal that impedes air infiltration additionally enhances this door. Available in six designer colors and a diverse collection of window options, this door will add value and appeal to your home for years to come.

Pictured. 16' x 8' 2216 white with optional 2-4 pc sunburst windows
9' x 8' 2216 white with optional 4 pc sunburst windows



9' x 7' 4216 white with optional cascade window inserts.

MODEL 2216 Short Panel, Insulated

MODEL 2217 Flush, Insulated

MODEL 4216 Long Panel, Insulated

- Door exterior skins are formed from 26-gauge galvanized draw quality steel and the interior is 27-gauge steel
- High-density polyurethane injected core
- Long-lasting rollers assure consistent, efficient operation
- Heavy-duty 14-gauge hinges with “wide body” pattern for greater stability and longer life
- Extra-heavy paint system includes .25 mil. primer with rust inhibitor and a .75 mil. coating of baked-on polyester paint in white, almond, sandstone, brown, bronze, or evergreen
- Concealed steel plates run continuously from top to bottom of each section for fastening hardware
- Optional white, powder-coated hardware
- White, powder-coated hardware is available as an option
- Thermally-broken for optimum climate protection
- Bottom weather seal utilizes an aluminum retainer and extruded virgin vinyl
- A continuous weather seal at the section joint assures maximum protection from the elements
- Raised panel R-value – 14*
 Flush panel R-value – 14.3*

DOOR CONSTRUCTION

These models utilize 26-gauge exterior and 27-gauge interior steel skins injected with polyurethane insulation. The thermally-broken tongue-and-groove section joint includes a continuous weather seal offering exceptional protection from the elements.



FEATURES

SUPERIOR. THERMALLY-BROKEN.

*Calculated in accordance with ASHRAE standard formulas



RAISED PANEL/FLUSH SANDWICH DOOR

The beautifully sound, top-of-the-line 2285/86, 4285 models are designed to be both energy-efficient and low-maintenance. These doors feature a pre-painted, easy-to-clean steel exterior with an insulated core and are built to fill the most demanding requirements. Owners will soon find themselves taking for granted the longevity, durability, and smooth operation which come naturally to a door built this well.

Pictured. 9' x 7' 2285 silver with optional stockton windows
16' x 7' 2285 silver with optional stockton windows



9' x 7' 4285 white with optional two-piece sunburst window inserts.

MODEL 2285 Short Panel, Insulated

MODEL 2286 Flush Panel, Insulated

MODEL 4285 Long Panel, Insulated

- Door exterior skins are formed from 26-gauge galvanized draw quality steel and the interior is 27-gauge steel
- Section joints are roll-formed into a tongue-and-groove design which produces a superior weather seal
- Bottom weather seal utilizes an aluminum retainer and extruded virgin vinyl
- Concealed steel plates run continuously from top to bottom of each section for fastening hardware
- Extension or torsion springs are coated and individually computer-calibrated to lift your door
- Extra-heavy paint system consists of .25 mil. primer with rust inhibitor and a .75 mil. coating of baked-on polyester paint in your choice of white, almond, sandstone, brown, bronze, silver or evergreen
- Hinges are stamped from galvanized steel in a "wide body" pattern for greater stability and longer life
- Optional automatic latching lock system opens easily from inside or outside
- Double sided steel doors are 2" thick
- Raised panel R-value – 8.07*
 Flush panel R-value – 8.72*

DOOR CONSTRUCTION

These models utilize 26-gauge exterior and 27-gauge interior steel skins. Polystyrene insulation is secured in place with a urethane adhesive to increase structural integrity. The front and back skins are locked together in a tongue-and-groove design for years of worry-free protection.



FEATURES

**Calculated in accordance with ASHRAE standard formulas*

ATTRACTIVE. RELIABLE.





RAISED PANEL/FLUSH SANDWICH DOOR

An attractive, select model engineered for durability and energy efficiency. The 2283/2284 models are available in three pre-painted, easy-to-care-for colors, with an insulated core that protects through the harshest conditions. The beauty of these doors are continued on the inside with polyester coated steel protection. Designed to complement a wide variety of home styles, these models will provide many years of dependable service.

Pictured. 9' x 7' 2283 white door with optional v-groove cathedral glass
16' x 7' 2283 white door with optional v-groove cathedral glass



9' x 7' 2284 white with optional cascade window inserts.

MODEL 2283 Raised Panel, Insulated

MODEL 2284 Flush Panel, Insulated

- Door sections are formed from 27-gauge galvanized draw quality steel
- Section joints are roll-formed into a tongue-and-groove design which produces a superior weather seal
- Bottom weather seal utilizes an aluminum retainer and extruded virgin vinyl
- Concealed steel plates run continuously from top to bottom of each section for fastening hardware
- Extension or torsion springs are coated and individually computer-calibrated to lift your door
- Extra-heavy paint system consists of .25 mil. primer with rust inhibitor and a .75 mil. coating of baked-on polyester paint in your choice of white, almond or sandstone
- Hinges are stamped from galvanized steel in a "wide body" pattern for greater stability and longer life
- Optional automatic latching lock system opens easily from inside or outside
- Double sided steel doors are 2" thick
- Raised panel R-value – 8.07*
 Flush panel R-value – 8.72*

DOOR CONSTRUCTION

These models utilize 27-gauge exterior and 27-gauge interior steel skins. Polystyrene insulation is secured in place with a urethane adhesive to increase structural integrity. The front and back skins are locked together in a tongue-and-groove design for years of worry-free protection.



FEATURES

*Calculated in accordance with ASHRAE standard formulas

STRONG. STYLISH.





24-GAUGE RAISED PANEL STEEL

For a traditional-looking, heavy-duty steel door, the 2240/41 and 4240/41 models are truly among the best around. Available in five designer colors, it is an attractive top-of-the-line door that will both complement the looks of your home and provide dependable protection for many years. Designed to accompany a wide variety of home styles, this heavy-gauge model is fit for a long life.

Pictured. 18' x 8' 2241 white with optional stockton windows

MODEL 2240 Short Panel, Uninsulated

MODEL 2241 Short Panel, Insulated

MODEL 4240 Long Panel, Uninsulated

MODEL 4241 Long Panel, Insulated



9' x 7' 4240 white with optional mission window inserts.

- Door sections are formed from heavy, 24-gauge galvanized draw quality steel
- Section joints are roll-formed into a tongue-and-groove design which produces a superior weather seal
- Bottom weather seal utilizes an aluminum retainer and extruded virgin vinyl
- Long-lasting rollers assure consistent, quiet and efficient operation
- Inside stiles are made of galvanized steel and stile holes are "dimpled" for increased holding power
- Extension or torsion springs are coated and individually computer-calibrated to lift your door
- Extra-heavy paint system consists of .25 mil. primer with rust inhibitor and a .75 mil. coating of baked-on polyester paint in your choice of white, almond, sandstone, brown, or evergreen
- Hinges are stamped from galvanized steel in a "wide body" pattern for greater stability and longer life
- Optional automatic latching lock system opens easily from inside or outside
- **Models 2241/4241** include 1-3/8" polystyrene insulation with a vinyl back cover
- **Models 2241/4241** R-value - 6.85*

FEATURES

2241/4241 DOOR CONSTRUCTION

These models utilize 24-gauge exterior steel skin with 1-3/8" thick polystyrene insulation with a vinyl back cover.



*Calculated in accordance with ASHRAE standard formulas

BEAUTIFUL. DEPENDABLE.





25-GAUGE RAISED PANEL STEEL

Built for both longevity and value, this door recreates the elegant look of wood with a deeply-embossed, distinctive panel design. It has the appearance of our top-of-the-line models, yet remains economical and efficient – making it one of our most popular models. Available in four designer colors, this durable steel door complements the look of almost any home.

Pictured. 9' x 8' 2251 white with plain windows

MODEL 2250	Short Panel, Uninsulated
MODEL 2251	Short Panel, Insulated
MODEL 4250	Long Panel, Uninsulated
MODEL 4251	Long Panel, Insulated



9' x 7' 4251 white with optional sherwood window inserts.

- Door sections are formed from heavy, 25-gauge galvanized draw quality steel
- Section joints are roll-formed into a tongue-and-groove design which produces a superior weather seal
- Bottom weather seal utilizes an aluminum retainer and extruded virgin vinyl
- Long-lasting rollers assure consistent, quiet and efficient operation
- Inside stiles are made of galvanized steel and stile holes are "dimpled" for increased holding power
- Extension or torsion springs are coated and individually computer-calibrated to lift your door
- Extra-heavy paint system consists of .25 mil. primer with rust inhibitor and a .75 mil. coating of baked-on polyester paint in your choice of white, almond, sandstone, brown, or evergreen
- Hinges are stamped from galvanized steel in a "wide body" pattern for greater stability and longer life
- Optional automatic latching lock system opens easily from inside or outside
- **Models 2251/4251** include 1-3/8" polystyrene insulation with a vinyl back cover

DOOR CONSTRUCTION

Each model utilizes a 25-gauge exterior steel skin. Chosen for their weather resistant features, models 2251/4251 utilize a 1-3/8" thick polystyrene insulation.

2251/4251R-value - 6.85*



FEATURES

QUIET. ENERGY-EFFICIENT.

*Calculated in accordance with ASHRAE standard formulas



Conversion of pounds per square foot of pressure (PSF) to miles per hour wind speed (MPH) is based on ASCE Standards 7-98, 7-02 and 7-05 under the following conditions:

- Exposure category B
- 30' mean roof height
- Wind speeds listed are 3 second gust
- Negative pressures assume door has 2 feet of width in the building's end zone
- Slope of roof is greater than 10°
- Enclosed structures only
- Positive pressure signifies pressure acting toward the building
- Negative pressure signifies pressure action away from the building

The C.H.I. PSF values are equal to or greater than the equivalent values required in the ASCE Standards for the MPH wind speeds listed.

Design pressures are set according to required MPH wind speeds. Test pressures are calculated at 1.5 times the design pressure and are not to be used to determine door performance under wind events.

MODEL AVAILABILITY PER ZONE

ZONES	PAN STYLE								SANDWICH			URETHANE		CARRIAGE HOUSE				
	2250	4250*	2251	4251*	2240	4240*	2241	4241*	2283/2284	2285/2286	4285*	2216/2217	4216*	5240*	5241	5216*	5331/32/33/34	5531/32/33/34
Z1	●	○	●	○	●	○	●	○	●	●	●	●	●	○	○	○	●	●
Z2	●	○	●	○	●	○	●	○	●	●	●	●	●	○	○	○	●	●
Z3	●	○	●	○	●	○	●	○	●	●	●	●	●	○	○	○	●	●
Z4	●	○	●	○	●	○	●	○	●	●	●	●	●	○	○	○	●	●
Z5	●	○	●	○	●	○	●	○	●	●	●	●	●	○	○	○	●	●
Z6	●	○	●	○	●	○	●	○	●	●	●	●	●	○	○	○	●	●
Z7	●	○	●	○	●	○	●	○	●	●	●	●	●	○	○	○	●	●
Z8	●	○	●	○	●	○	●	○	●	●	●	-	-	○	○	-	-	-
Z9	●	○	●	○	●	○	●	○	●	●	●	-	-	○	○	-	-	-

DESIGN PSF

DOOR WIDTH	ZONE 1 90 mph	ZONE 2 100 mph	ZONE 3 110 mph	ZONE 4 120 mph	ZONE 5 130 mph	ZONE 6 140 mph	ZONE 7 150 mph	ZONE 8 156 mph	ZONE 9 164 mph
To 10'	12.8 pos 14.8 neg	15.9 pos 18.2 neg	19.2 pos 22.0 neg	22.9 pos 26.3 neg	26.9 pos 30.8 neg	31.2 pos 35.8 neg	35.7 pos 41.0 neg	38.7 pos 43.6 neg	42.6 pos 48.1 neg
10'1"-18'	12.4 pos 13.8 neg	15.3 pos 17.0 neg	18.5 pos 20.7 neg	22.0 pos 24.5 neg	25.9 pos 28.8 neg	30.0 pos 33.5 neg	34.4 pos 38.3 neg	37.1 pos 41.2 neg	40.9 pos 45.5 neg

PSF - Pounds Per Square Foot

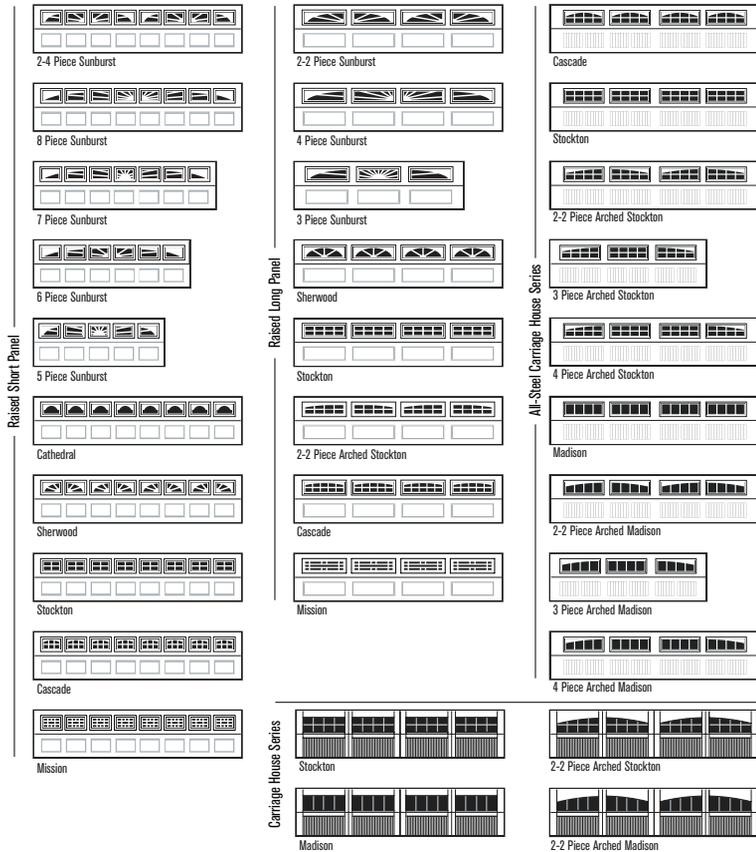
● All sizes available ○ Sizes vary in availability - Currently not available * Windows options vary please contact dealer for details

NOTE: Doors must include either a lock or an operator to meet specifications. Model availability per zone is subject to change without notice. Speak with your local C.H.I. Distributor about which zone you are in and on the use of glass options available in your zone.

SPECIFICATIONS AND OPTIONAL FEATURES

STANDARD WINDOW DESIGN TRIMS

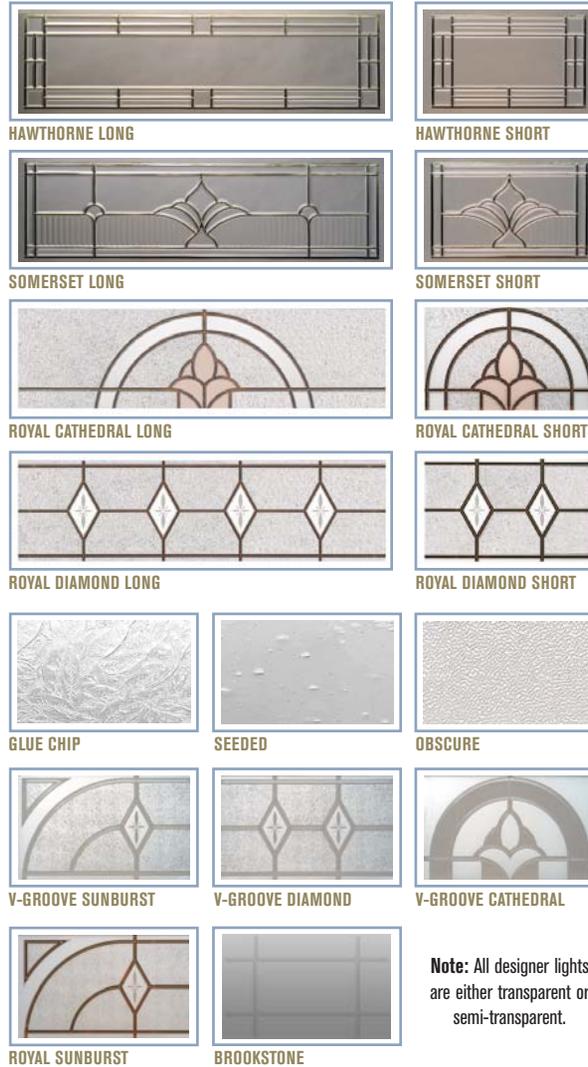
C.H.I. offers several insert designs that add distinction to any home. The convenient interchangeable inserts allow you to transform the look of your door instantly by simply switching insert patterns. Inserts are U.V. protected and are available in all door colors. The inserts can also be painted to match existing trim colors on your home.



Specifications are subject to change without notice.

Please note that some optional features shown may not be available on all models, please see distributor for details.

WINDOW & GLASS OPTIONS



WHITE

ALMOND

SANDSTONE

BROWN

BRONZE

SILVER

EVERGREEN

COLOR SELECTIONS

QUALITY CHOICES.



Please note that all color options are not available for all models. Refer to samples at your local C.H.I. distributor for exact color match.



PLEASE VISIT OUR WEBSITE AT WWW.CH10HD.COM TO SEE OUR ENTIRE LINE OF SECTIONAL AND ROLLING STEEL DOORS.

C.H.I. OVERHEAD DOORS DISTRIBUTED BY:

C.H.I. Overhead Doors are manufactured in Arthur, Illinois, USA.