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PANEL SPECIFICATIONS

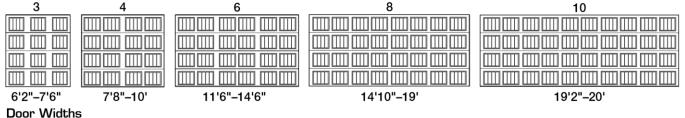
The illustrations below show the number of panels across for specific door widths.

For example, a 10' wide, short emboss panel door has 4 panels across.

All examples shown are for a 7' high door. Other door heights may have a different number of sections high (see pages AC18-AC21).

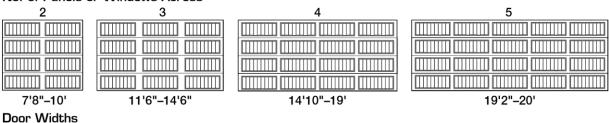
SHORT EMBOSS PANEL STYLES (AR2SU, AR1SU, AR2SP, AR1SP, AR4SV, AR5SV, AR4S, AR5S)

No. of Panels or Windows Across



LONG EMBOSS PANEL STYLES (AR2LU, AR1LU, AR2LP, AR1LP, AR4LV, AR4L)

No. of Panels or Windows Across



WIDTH OPTIONS

Models AR2SU, AR2SP, AR4SV and AR4S are available in 2" increments from 6'2" to 20' wide. Models AR2LU, AR2LP, AR4LV and AR4L are available in 2" increments from 7'8" to 20' wide. Models AR1SU, AR1SP, AR5SV and AR5S are available in 2" increments from 6'2" to 18' wide. Models AR1LU, AR1LP are available in 2" increments from 7'8" to 18' wide.

STANDARD HEADROOM REQUIREMENTS					
Extensio	n Springs	Torsion Springs			
Track Radius 12" 15"	Headroom Requirements 10" 12"	Track Radius 12" 15"	Headroom Requirements 12" 14"		



WARMER. QUIETER. STRONGER.

Garage doors featuring Intellicore® insulation technology represent the ultimate smart choice for homeowners. Intellicore by Holmes Garage Door Company® is a proprietary polyurethane foam that is injected into a garage door, expanding to fill the entire structure. The result is a door with incredible strength and durability. Its dense insulation also produces a quieter door, while its industry-leading

R-values (up to 18.4) provide year-round comfort and improved energy efficiency.

Look for the Intellicore® icon throughout this brochure on select door models.







PRODUCT INFORMATION

SELECTION GUIDE

	SHORT SOLID (NO WINDOW)	SHORT PLAIN	SHORT RECTANGLE GRILLE	SHORT SQUARE GRILLE	ARCH1 PLAIN	ARCH2 PLAIN	ARCH3 (DOUBLE CAR I		ARCH3 VERTICAL GRILLE (DOUBLE CAR DOORS ONLY)
INEL INEL									
BOSS PAN	LONG SOLID (NO WINDOW)	LONG PLAIN	LONG RECTANGLE GRILLE	LONG SQUARE GRILLE	ARCH1 VERTICAL GRILLE	ARCH1 GRILLE	ARCH2 VERTICAL GRILLE	ARCH2 GRILLE	ARCH3 GRILLE (DOUBLE CAR DOORS ONLY)
SHORT	WROUGHT IRON ARCH	WROUGHT IRON SHORT	WROUGHT IRON LONG	TRENTON® SHORT	TRENTON® Long	KRISTIN® Short	KRISTIN® Long	CLAYTON™ SHORT	CLAYTON™ LONG
	SHORT SOLID (NO WINDOW)	SHORT PLAIN	SHORT RECTANGLE GRILLE	SHORT SQUARE GRILLE	ARCH1 PLAIN	ARCH2 PLAIN	ARCH3 (DOUBLE CAR I		ARCH3 VERTICAL GRILLE (DOUBLE CAR DOORS ONLY)
Ę									
EMBOSS PAN	LONG SOLID (NO WINDOW)	LONG PLAIN	LONG RECTANGLE GRILLE	LONG SQUARE GRILLE	ARCH1 VERTICAL GRILLE	ARCH1 GRILLE	ARCH2 VERTICAL GRILLE	ARCH2 GRILLE	ARCH3 GRILLE (DOUBLE CAR DOORS ONLY)
LONG	WROUGHT IRON ARCH	WROUGHT IRON SHORT	WROUGHT IRON LONG	TRENTON® SHORT	TRENTON® LONG	KRISTIN® SHORT	KRISTIN® Long	CLAYTON™ SHORT	CLAYTON" LONG
	6320 6320				44444 44444				

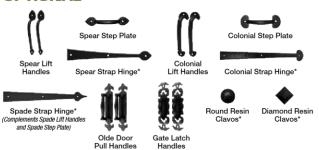
NOTE: Single doors are illustrated above (including ARCH3). All window/top section options are available on double doors (see pages AC18-AC21 for all illustrations).

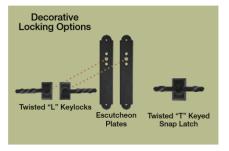
DECORATIVE HARDWARE (SEE PAGE AC16 FOR COMPLETE DETAILS)

STANDARD



OPTIONAL





*Door may not open properly if installed near the top depending on opening dimensions and lift type.

ULTRA-GRAIN® WOODGRAIN PAINT FINISH







Ultra-Grain® Oak Dark Finish



Ultra-Grain[®] Oak Walnut Finish

Ultra-Grain® woodgrain paint finish available only on Models AR2SU, AR2LU, AR2SP, AR2LP, AR1SP, AR1LP with an additional cost. For complete list, see page AC17.







CONSTRUCTION	MODELS	MODELS FEATURES WARR		
THREE-LAYERDOORS steel lusulation Steel steel	AR2SU (Short Panel) AR2LU (Long Panel)	 2" Thick Intellicore* Polyurethane Insulation (R-value = 18.4*) 27 Gauge Exterior and Interior Steel† 	LIMITED WARRANTY LIFETIME LO VEARYEAR	
Intelli COYE. Steel Insulation Steel	AR1SU (Short Panel) AR1LU (Long Panel)	 13/8" Thick Intellicore® Polyurethane Insulation (R-value = 12.9*) 27 Gauge Exterior and Interior Steel® 	LIMITED WARRANTY LIFETIME LO YEARYEAR	
Steel Insulation Steel	AR2SP (Short Panel) AR2LP (Long Panel)	 2" Thick Polystyrene Insulation (R-value = 9.0*) 27 Gauge Exterior and Interior Steel[‡] 	LIMITED WARRANTY LIFETIME LO YEARYEAR	
Steel Insulation Steel	AR1SP (Short Panel) AR1LP (Long Panel)	 13/8" Thick Polystyrene Insulation (R-value = 6.5*) 27 Gauge Exterior and Interior Steel* 	LIMITED WARRANTY LIFETIME LO YEARYEAR	
TWO-LAYERDOORS Insulation Insulation	AR4SV (Short Panel) AR4LV (Long Panel)	 15/16" Thick Polystyrene Insulation (R-value = 6.3*) 24 Gauge Steel Construction 	LIMITED WARRANTY LIFETIME LO YEARYEAR	
Steel - Insulation	AR5SV (Short Panel)	 15/16" Thick Polystyrene Insulation (R-value = 6.3*) 25 Gauge Steel Construction 	LIMITED WARRANTY 3 15 VEARYEAR VEARYEAR	
ONE-LAYERDOORS I page 1	AR4S (Short Panel) AR4L (Long Panel)	Non-Insulated24 Gauge Steel Construction	LIMITED WARRANTY LIFETIME LO YEARYEAR	





PRODUCT INFORMATION



CONSTRUCTION

- · See page AC6 for insulation and steel gauge options.
- Extension springs with a safety containment cable are standard on all single car doors (up to 10' wide and up to 8' high). To upgrade to EZ-SET® extension add \$38.38, for EZ-SET® torsion springs add \$62.89, for standard torsion springs add \$34.11.
- EZ-SET® torsion springs are standard on all double car doors (over 10' wide and up to 8' high). For standard torsion springs deduct \$12.79.
- Torsion springs are standard on all extended height doors (over 8' high).
 Other springs are not available for extended height doors.
- Bottom weatherseal in rust-proof aluminum retainer.
- · Operator reinforcement bracket is standard.

STYLE AND FINISH

- Hot-dipped galvanized steel skin with a baked-on primer and top coat.
- Door can be painted.
- · Two deep panel emboss designs.
- Twenty-two window options available in plain DSB or obscure glass. (Wrought iron is available in acrylic only).
- Standard hardware included: 8' 20' wide doors receive (2) spade lift handles and (1) spade step plate.

SIZES

- Heights are determined using a combination of 18", 21" and 24" sections allowing for door heights from 6' to 16' high (for more information on door heights see page AC2).
- Available in widths from 6'2" to 20' wide in 2" increments (see page AC3 for complete details).

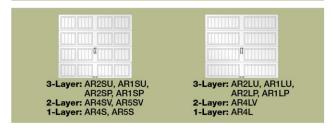
SPECIAL NOTES

- Standard decorative hardware included with door; optional decorative hardware is also available at an additional charge.
- If you have restricted headroom, special hardware is available (see pages AC16–AC17 for details).
- Interior slide lock is standard.
- Includes struts as per schedule on page AC2.

ADDITIONAL ITEMS (SEE PAGES AC16-AC17)

- · Low headroom and springing options
- Vinyl perimeter seals (stop molding).
- · Rear track hanging kit.
- · Decorative hardware.

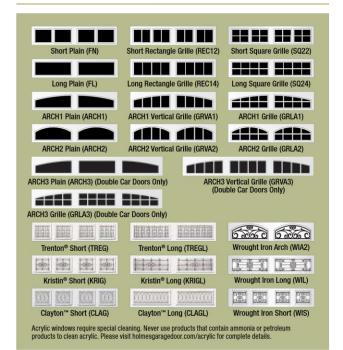
PANEL OPTIONS



PANEL COLORS



WINDOW OPTIONS



For safety reasons, Holmes Garage Door Company does not approve of the installation of standard torsion springs by anyone other than a trained and experienced professional installer or contractor using specialized tools. Holmes Garage Door Company disclaims any and all liability, including any obligations or liability under indemnification agreements with distributors or retailers, for death, personal injury, expense or property damage incurred by customer or installer who attempts to install or who installs torsion springs. Holmes Garage Door Company strongly recommends the use of the patented EZ-SET® torsion springs when available.





MAINTENANCE AND CARE

Painting your Door

Painting: Your steel garage door can be painted with a high quality 100% acrylic latex (flat, satin, or semigloss) exterior grade paint. Before painting the door it must be free of dirt, oil, caulk, waxes and mildew.

Do not use any type of oil based paint or Alkyd modified acrylic latex paint. These paints will void the warranty of your door.

Painting preparation: Clean surface first with a diluted solution of Trisodium Phosphate. The recommended concentration is 1/3 cup of powder to 1-1/2 to 2 gallons of water. A cleaning pad (3M Synthetic steel wool GRAY not green) should be used saturated with this cleaning solution. Rub with even pressure to lightly scuff the surface while applying the cleaning solution over all surfaces to be painted. A final wipe and rinse with clean water and sponge should be done to remove any loose material. Change water often to ensure clean rinse and allow to dry. Pre test your paint on a small area (see paragraph Paint below). If the paint shows signs of poor adherence, (tape test below) there may be a problem with the paint or the surface preparation. DO NOT PROCEED! A new paint or further preparation of the surface is called for.

Alternate cleaning compounds: Areas of the country that do not carry Trisodium Phosphate can use a biodegradable cleaner with the cleaning pad above. Follow above directions to rinse completely and pre test paint.

NOTE: Sanding could remove rust-inhibiting compounds, therefore, sanding should be done only to damaged areas where bare metal has been exposed. Refer to the "Paint Repair" section of these instructions.

Paint Repair: Should your door's paint finish become damaged, exposing the bare metal, it will become necessary to repair this area to prevent rust from forming. The damaged area should be lightly sanded with a medium to fine sandpaper making sure to remove all visible red and white rust. Wipe this area with a dry, clean rag. Coat the sanded area with a high quality, rust inhibiting, zinc enriched primer. This type of primer can be found at most paint or hardware stores, and should be labeled for covering bare and galvanized steel. Once the primer is applied, wait the time specified on the primer's instructions before you finish painting your door.

Paint: Your steel garage door can be painted with a high quality, 100% acrylic latex (flat, satin, or semigloss) exterior grade paint. Since all paints are not created equal, the following test needs to be performed: paint should be applied on a small area of the door (following the instructions on the paint container), allowed to dry, and evaluated prior to painting the entire door. Paint defects to look for are blistering and peeling. An additional test is to apply a strip of masking tape over the painted area and peel back, checking to see that the paint adheres to the door and not to the tape.

After satisfactorily testing a paint, follow the directions on the container and apply to the door. Be sure to allow adequate drying time should you wish to apply a second coat. Window frames & inserts can be painted with a high quality, 100% acrylic latex. The plastic should first be lightly sanded to remove any surface gloss.

NOTE: Do not apply paint when door surface temperature is different from manufacturer's suggested temperature range for application.

Snap-In Grille Removal And Replacement:

NOTE: DO NOT REMOVE SCREWS from the window frame. Decorative grilles are designed to snap-in and out of the window frame.

Some doors with windows have a decorative grille attached in front of the window. The grille can be removed for cleaning or painting purposes.

- Remove the tabs on the vertical legs of the grille (two on short panel windows, six on long panel windows) from the notches in the front window frame.
- The grille can be firmly pulled out of the window.
- 3) Replacing the grille is the reversal of the process described for removal. The two or six longer tabs on the vertical legs of the grille must be placed in the notches under the lip of the front window frame. The two shorter tabs on the horizontal leg of the grille must be placed under the lip of the front window frame.

Glass Replacement

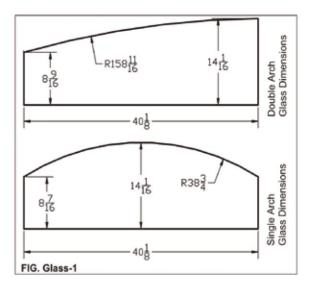


WARNING

To avoid injury, use extreme caution in handling glass window pane. When the frame is removed, the exposed steel edge of the door may be sharp. Avoid contact with the steel edges.

Glass Replacement: If your door is equipped with windows and the glass should need replacement, follow the steps below:

- With someone holding the outside frame, remove the screws from the inside window frame.
- Pull the inside frame out of the door.
- 3) Carefully remove the broken or old glass.
- Insert the new glass. The glass should be 17-5/8" x 14-1/16" (short panel windows) or 40-1/8" x 14-1/16" (long panel windows). See illustration below for glass dimensions of single or double arched windows. (FIG. Glass-1)
- With someone holding the outside frame, reinsert the screws into the inside frame, trapping the glass.







MAINTENANCE AND CARE

Annual Maintenance

- Lubricate all moving parts of the door with light household oil, including:
 - a) Lift cables at the bottom bracket button
 - b) Bearing of the sheaves
 - c) Lock hardware where surfaces turn or slide
 - d) Full length of torsion spring to reduce friction between coils
 - e) Lubricate steel rollers. DO NOT lubricate nylon rollers.
- 2) Check for loose or bent hinges.
 - Tighten loose hinges.
 - b) Straighten or replace bent hinges.

Caution: To replace bent hinge(s) or broken roller(s):

Door must be locked and in the down position.

No more than 1 hinge is to be removed from the door at any given time.

Under no circumstances should you loosen or remove the bottom bracket without disengaging the spring tension. (Follow instructions for removing extension springs.)

- 3) Check roller for broken wheels, bent shafts, or worn out bearings
- Check the door and track supports for loose or missing bolts, screws, etc. Be careful not to over tighten.
- Check the extension cables. Are they running properly in the sheaves? Check for wear of the cable at the bottom bracket button.
- Check for bent track. If bent, call an authorized professional dealer.
- 7) Extension spring hardware, including springs, cables, sheaves, sheave forks, bottom brackets, and containment cables, should be adjusted or repaired only when the spring tension is released (the door must be open). These repairs should be made by a qualified door technician or a mechanically experienced person with proper tools and instructions.
- If your door has torsion springs, the spring assembly and wood anchor pad should only be adjusted or repaired by a professional door technician.

Cleaning the Door

In order to prevent damage (rusting) caused by foreign matter adhering to the door, the door should be cleaned at least twice a year (normal environments) or 4 times a year (coastal environments). The door may need to be cleaned more frequently if road salt accumulates in a winter climate. The door should be wiped down with a mild household detergent and rinsed with clear water.

NOTE: Be sure to clean behind the stop molding on the sides and top of door.

Waxing the Door (Coastal and Harsh Environments)

For coastal and harsh environments, it will be necessary to wax the front side of the door following installation. Select a good quality car wax and apply according to wax manufacturer's instructions. Wax should be applied at least twice a year, immediately after cleaning (see cleaning instructions above).

Glass Windows Cleaning and Care Instructions

Clean with a mild solution of a dishwashing detergent and a soft cloth. After cleaning, rinse thoroughly. DO NOT use any ammoniated, abrasive, or solvent-based cleaners of any kind.

Replacement Parts

Replacement parts are available from an authorized professional dealer or a building supply retailer. When ordering repair parts, always provide the following: part name, model number, and door width and door height (W x H). For the location of the authorized professional dealer or a building supply retailer nearest you, please write or call:

Holmes Garage Door Company Consumer Services Dept. 1400 West Market Street

Trov/01145373

Call Toll Free: 1-800-557-0488 Hours of Operation (EST): Monday – Friday, 8:30 AM - 7 PM Saturday, 8:30 AM - 5

Holmes Garage Door Company® Artistry® Collection Limited Warranty

We will repair or replace (at our option) any garage door section or hardware that is defective in material or workmanship pursuant to the terms of this limited warranty. This warranty extends to and benefits only the original purchaser of the garage door. This warranty does not apply to commercial, industrial or any other non-residential installation.

We will provide, at no cost to you, sections/section components, hardware, springs/spring components or windows to repair or replace defective sections, hardware, springs/spring components or windows.

All labor costs associated with the remove	al and reinstallatior	of any repaired se	ction/section	
components, hardware or spring/spring c	mponents, and th	e installation of rep	lacement	
sections/section components, hardware,	spring/spring comp	onents, or window	s will be your	
responsibility. We reserve the right to ins	pect and/or verify a	ny claimed defect.	The applicable	limited
warranty periods are as follows:				
Model Number	Paint Syste	m Hardware/Spi	rings Section	ns Window
ADAL ADALV ADAC ADACV ADALD AT	01LD	_	_	

Model Number	Paint System	Hardware/Springs	Sections	windov
AR4L, AR4LV, AR4S, AR4SV, AR2LP, AR1LP,	Limited Lifetime	3 years	5 years	10 years
AR2SP, AR1SP, AR2LU, ARL1U, AR2SU, AR1SU				
AR5SV	15 years	3 years	5 years	10 years
AR5S	15 years	3 years	5 years	10 years

Terms and limitations of the limited warranty are further detailed below:

Paint System Limited Warranty

Holmes Garage Door Company warrants the sections of the Models listed above against rust-through due to the paint finish cracking, checking or peeling (losing adhesion) as follows: (a) in residential single family installations for the years designated above from the date of delivery to the original purchaser; (b) in all other residential installations (including installations on facilities owned in common by condominium associations or similar organizations), for ten (10) years from date of delivery to the original purchaser, pursuant to the terms of this limited warranty.

Hardware/Spring & Spring Component/Sections/Section Components Limited Warranty

We will repair or replace (at our option) any garage door hardware, section/section components, spring and/or spring component that is defective in material or workmanship for the term defined in the chart above, pursuant to the terms of this limited warranty. In addition, we will repair or replace (at our option) any garage door section/section component that is defective in material or workmanship. Decorative Windows – Limited Warranty Designer windows, snap-in inserts, clear acrylic windows and window frames are warranted from date of purchase against manufacturing defects and excessive discoloration. This warranty does not cover any damage or loss caused by harmful chemical action, abrasive cleansers, or breakdowns due to climate extremes or environmental conditions. No warranty is available for single pane glass.

WE WILL NOT PAY FOR ANY DAMAGES, INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES, CAUSED BY OR RESULTING FROM DEFECTIVE GARAGE DOOR SECTIONS OR HARDWARE. Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

Our warranty shall not extend to or cover deterioration due to damage or rust to the garage door caused by fire, an act of God, other accident or casualty, vandalism, radiation, harmful fumes or foreign substances in the atmosphere, or occurring as a result of any physical damage or the failure of paint that is not applied per the







manufacturer's specifications after the garage door left our factory, or failure to follow all installation and maintenance instructions. Nor shall our warranty extend to or cover any damages due to normal wear and tear, or claims with respect to any products that in any way or degree have been altered, processed, misused or improperly handled or installed.

If your garage door does not conform to this warranty, notify us in writing at the following address promptly after discovery of the defect. Clopay Building Products, Attn: Consumer Services Dept., 1400 West Market St. Troy, OH 45373. Additional copies of our installation and maintenance instructions may be obtained by calling 1-800-557-0488.

WE MAKE NO OTHER WARRANTIES, REPRESENTATIONS, OR COVENANTS, EXPRESS OR IMPLIED, WITH RESPECT TO THIS PRODUCT, INCLUDING BUT NOT LIMITED TO WARRANTIES, REPRESENTATIONS OR COVENANTS AS TO WORKMANSHIP, DESIGN, CAPACITY, QUALITY, CONDITION, MERCHANTABILITY, OR FITNESS FOR ANY PURPOSE OF THE PRODUCT, EXCEPT FOR ANY "IMPLIED WARRANTY" AS THAT TERM IS DEFINED IN THE MAGNUSON-MOSS WARRANTYFEDERAL TRADE COMMISSION IMPROVEMENT ACT, SUCH IMPLIED WARRANTIES TO BE LIMITED IN DURATION TO A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.