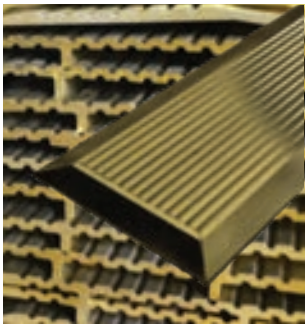
Materials

Aluminum *(CA) (MA) (BK) (DB) (GD)*

Aluminum shapes by Legacy are extruded in a mill finish. Parts are available in clear anodized (204R1 clear), mill finish, black anodized, dark bronze anodized, and gold anodized. Legacy uses a 6063 alloy with a hardness between T5 and T6.



Bronze *(BR)*

Architectural Bronze shapes by Legacy are extruded in brass alloy #380. This alloy has the following breakdown: 57.5% copper, 41% zinc, 1.3% lead, and 0.2% aluminum. Legacy's bronze products are provided in a standard mill finish. However, Legacy also offers a variety of bronze finish options such as polishing and oil-rubbing. Over time, the gold color bronze that Legacy provides will oxidize to a dark bronze. Legacy also has roll-formed spring bronze. This product is about 90% copper and 10% zinc. Most commonly used in part 5911BR.

Neoprene *(N) (SPR)*

Legacy Manufacturing extrudes our own neoprene at our Ohio facility. Neoprene is provided in two different forms: Closed-Cell Neoprene (N) and Sponge Rubber (SPR). Because of the chemical composition of neoprene, the product can only be extruded in a black color. The primary chemical that limits the color of neoprene is chlorine, which is required in Legacy's products for fire-rating purposes. Technical data is provided on request. Neoprene generally has a tensile strength up to 3000 PSI, with a hardness range is between 40-70 (Shore A), and provides excellent adhesion to both aluminum and bronze. Neoprene is superior to vinyl for its tear resistance and resilience under temperature changes.

Silicone *(S)*

Also produced at our Ohio facility, Legacy's silicone can be extruded in a variety of colors including white, blue, green, grey, brown, black, and clear. Silicone has excellent resistance to oxidation, heat, cold, and water absorption. Silicone should not be used in areas that have concentrated exposure to chemicals and acids.

Polypropylene Brush *(PB)*

Pile Brush inserts are used in a variety of applications and mostly for interior openings. The brush consists a polypropylene fiber that is mechanically fastened to a plastic backing. Custom brushes are also available depending on customer specifications. Fibers are generally flexible.

Fasteners *(SMS) (FA)*

Standard threaded-to-the-head sheet metal screws are supplied for all head and jamb gasketing material. Legacy has a variety of options for the screw head including Phillips, slotted, truss, pan, and flat head. Flat head screws are generally provided for threshold applications. We also offer a wide range of anchors that can be used with these screws. (See page 28 for available anchors.)

Finishes

CA - Clear Anodized Aluminum

MA - Mill Aluminum

DB - Dark Bronze Anodized Aluminum

BR - Architectural Bronze

MB - Matte Black Powder Coat

BK - Black Anodized Aluminum

WP - White Powder Coat

ORB - Oil Rubbed Bronze

SP - Gray Steel Prime

SS - Stainless Steel

GD - Gold Anodized Aluminum

POL - Polished Bronze

Aluminum

Clear Anodized	ANSI/BHMA 628	US28	CA
Mill Finish	ANSI/BHMA 719	US27	MA
Black Anodized	–	–	BK
Dark Bronze Anodized	–	–	DB
Gold Anodized	–	–	GB
Powder-Coated Colors	SEE ABOVE	–	–

Architectural Bronze

Satin Finish	ANSI/BHMA 728	US4	BR
Oil-Rubbed	ANSI/BHMA 722	US10B	ORB
Polished	ANSI/BHMA 721	US3	POL

Stainless Steel

Mill Finish	–	–	SS
Brushed (#4)	ANSI/BHMA 630	US32D	SS-Brushed
Polished	ANSI/BHMA 629	US32	SS-POL

Product Symbols

Acoustic | ADA Accessible | EMI / RFI | FEMA Compliant | Fire | Non-Slip | Smoke

Regulatory Standards

Fire Rated

UL10B Standard for Fire Tests of Door Assemblies
UL10C Standard for Positive Pressure Fire Test of Doors
UBC 43-2 Fire Test of Door Assemblies
UBC 7-2-97 PART I Fire Test Standard for Swinging Fire Doors
CAN / ULC S104
ASTM E152 Method of Fire Test of Door Assemblies
ASTM E2074 Standard Test Method for Fire Tests of Door Assemblies, including Positive Pressure Testing of Side Hinged and Pivoted Swinging Door Assemblies
IBC 2009 International Building Code
NFPA 80 Standard for Fire Doors and Fire Windows
NFPA 101 Life Safety Code
NFPA 105 Recommended Practice for the Installation of Smoke and Draft Control Door Assemblies
NFPA 252 Standard Method of Fire Tests of Door Assemblies SDI 118 Basic Fire Door Requirements

FEMA Compliant

FEMA Technical Bulletin 3-93 Non-Residential Flood-proofing
FEMA Flood-proofing Non-Residential Structures #102
FEMA P-259 Engineering Design and Principles

Smoke

UL1784 Standard for Air Leakage Tests of Door Assemblies
IBC 2009 International Building Code
UBC 7-2-97 PART II Method of Smoke and Draft Control Tests of Door Assemblies

Acoustic

Acoustical ratings are achieved by OEM testing using specific door assembly configurations. See our acoustical section located on pages 67 for more detailed STC ratings.

ADA Accessible

ADAAG-1998
ICC/ANSI A117.1-1998 Standard for Accessible and Usable Buildings and Facilities
IBC 2009 International Building Code

Non-Slip Surface

ASTM F-609 Standard for Safety for Slip Resistance of Floor Surface
MIL-D 23003 A Deck Covering Compound, Non- Slip, Rollable
UL 410 Standard for Safety for Slip Resistance of Floor Surface

Electromagnetic / Radio Frequency Interference

EMI testing is achieved by testing against standards of **MIL-STD-285** and **NSA 73-2A**. We are happy to work directly with you and your opening to achieve positive results.

MIL-STD-285 Attenuation measurement for enclosures, electromagnetic shielding
NSA 73-2A Performed for electric field attenuation over the frequency range 10 MHz to 1 GHz

SPECIFIABLE OPTIONS – Legacy's Signature Advantage for Specifiers

While we are recognized and applauded for our unique capabilities and appetite for customization, it is Legacy's unequaled range of standard features and options that puts the power of ultimate flexibility in the hands of the specifier. The options listed in this catalog are explained in more detail below.

ACF	**Aluminum Composite Filler** -- for Thresholds	Strengthens and reinforces thresholds to prevent bending or crushing under high-traffic and heavyweight use in schools, industrial and manufacturing plants, and other high-stress applications.
AIR	**Air Flow** -- for Door Sweeps	Double rows of notched and staggered neoprene seals allow free flow of air while still blocking light at the bottom of the door.
Blank	**No option specified**	Standard features apply (if any).
CE	**Concealed Electric** -- for Hinges	26-gauge wires for buzzers, alarms and other electrified hardware mounted in a removable hinge section for easy access if needed. Specify up to 12 wires.
EA	**Electrical Actuator** -- for Automatic Door Bottoms	Allows electronic activation of door opening hardware (i.e., pushbutton, key pad or card reader) using a mortised motor. Motor and casing are provided for wiring by installer. Not available elsewhere.
EMI/RFI	**Electromagnetic/ Radio Frequency Interference Blocking**	An iridate coating on aluminum housings and solid carbon-filled neoprene rubber gaskets ensure maximum electrical conductivity for blocking both electromagnetic and radio frequency interference in applications such as laboratories, hospitals, brokerage houses, embassies and other facilities using sensitive electronic equipment. (See p.85 for details.)
EP	**Extended Plunger** -- for Automatic Door Bottoms	50 mm brass hex nut (versus standard 30 mm) helps compensate for excessive gap between the door and frame.
EPT	**Electrical Power Transfer Cut-Out** -- for Hinges	Notches cut out on both sides of the continuous hinge accommodate installation of a power transfer unit without interfering with hinge operation. Specify handing and cut-out dimensions when ordering.
EPX	**Epoxy Abrasive** -- for Thresholds	Non-slip abrasive epoxy is chemically applied to the grooves of the threshold for improved strength and grip.
FL	**Fire Label**	Available for products with published fire ratings. When properly applied, fire labels are visible and legible to meet inspection requirements.
FOAM	**Foam** -- for Perimeter Seals	Acoustical foam insert for additional sound-blocking density.
FX	**Intumescent**	Where offered, this option allows adding Legacy's proprietary intumescent material to products where it is not already integrated as standard design. Useful for fire applications to ensure effective sealing of all gaps.
HD	**Heavy Duty** -- for Hinges	Specify for high-traffic and heavy doors up to 475 lbs. Hinge cut-out differs from standard to support roughly double the usual number of bearings. Call our Engineering Department for guidance on your specific application. (For example, 83" door height/ 32 bearings supplied; 95"/ 36 bearings; 107"/ 42 bearings. Other heights can also be accommodated.)
HT	**Hospital Tip** -- for Hinges	Sloped barrel end on hinge top simplifies cleaning and helps prevent insertion of foreign items that might cause harm. Ideal for security doorways in prisons; hospitals and mental health facilities; and clean rooms.
LA	**Lead Anchor Fastener**	Lead anchors for use with standard #10 screws
LIG	**Ligature Resistant**	Notching silicone or neoprene seal at 8-inch intervals ensures that gasketing will break into pieces if removed from extrusions or aluminum housing for any reason. Common applications are prisons and psychiatric facilities.
LL	**Lead Lined**	Integrates lead into parts for lead-lined openings, primarily used for x-ray protection.

LS	**Light Spring -- for Automatic Door Bottoms**	Allows lower operating force to for compliance with ADA requirements when integrated with appropriate head and jamb components.
NH	**No Holes**	Specify to omit standard mounting holes.
NIT	**Nitrile Extrusion**	Extruded rubber in nitrile formulation for protection from corrosive chemical exposures in medical and industrial applications. (See p.85 for details.)
ORB	**Oil-Rubbed Bronze**	Specify for standard architectural bronze components to be provided with BHMA US10b finish.
PB-BK	**Black Pile Brush**	
PB-GY	**Grey Pile Brush**	
PB-WH	**White Pile Brush**	
PEPX	**Photoluminescent Epoxy Abrasive** -- for Thresholds	Specify for compliance with NYC Building Code Standard RS 6-1/1A and IBC 2000 requirements for photoluminescent stairwell and exit path markings. Threshold grooves are filled with a proprietary photoluminescent epoxy that emits luminescence after charging by exposure to ambient light.
POL	**Polished Bronze**	Specify for standard architectural bronze components to be provided with BHMA US3 finish.
PSA	**Pressure Sensitive Adhesive**	Industry-leading 3M tape is supplied for highest-quality pressure-sensitive adhesive.
PULL	**Pull** -- for Automatic Door Bottoms	Removable end cap allows removing the door bottom insert for cleaning or repair while housing remains mounted to the in-place door. Ideal for hospitals, schools, hotels and other applications with high standards for cleanliness.
PV	**Pivot Doors** -- for Automatic Door Bottoms	The larger gap between door edge and frame in pivot door requires a different mechanism and extended brass hex nut for efficient seal drop.
RS	**Ribbon Switch** -- for Perimeter Seals	Mounted to the inside of gasketing to allow integration of switch-operated access-control hardware.
RUB	**Rubber Grip** -- for Thresholds	Typically used for interior applications. In place of conventional rubber inserts, our unique process chemically applies non-slip rubber to threshold grooves for enhanced grip and strength.
SF	**Security Fasteners**	Tamperproof Torx screws are provided.
SL	**Sliding Doors** -- for Automatic Door Bottoms	In place of a conventional spring for latching, a light spring is included for easier activation when the sliding door is closed. Automatic door bottoms specified with this option drop evenly against the floor.
SLC	**Strike Lip Cut** -- for Overlapping Astragals	For pairs of doors with one active and one inactive leaf. A cutout in the astragal accommodates a typical strike with exposed lip in the overlapping astragal.
ST	**School Tip** -- for Hinges	To prevent insertion of foreign objects that might impede hinge operation or damage gears, bearing plugs are mounted flush with the top and bottom openings of the hinge.
S-WH	**White Silicone**	Specify white silicone to replace standard black silicone.
TD	**Top Door Installation** -- for Automatic Door Bottoms	Suitable for maximum 3/8" clearances, mounting this hardware at the top of the door is a useful option for closing gaps for mortised sound control or other applications while maintaining the aesthetics of no exposed hardware.