



smoking shelters

SPACES IN HARMONY

As smoking bans gained steam in the 1980s, Duo-Gard's team addressed the need to accommodate both smokers and nonsmokers in a smoke-free workplace. We developed our smoking shelters to improve and enhance our customers' environments across the country. Our Air-Flo Smoking Shelter earned a product of the year award in 1990 by *Plant Engineering Magazine* and propelled Duo-Gard forward as an industry innovator and leader. Our shelters are built to last - we originated the concept in the late 1980s and the first shelters we installed are still used every day.

REAP THE BENEFITS

- Maintain clean & welcoming entryways
- Present a positive corporate image
- Decide where you want smokers to go
- Create a safe & secure, designated area for smokers
- Provide a professional-looking alternative
- Eliminate non-smokers' concerns
- End doorway confrontations
- Establish a year-round, long-term solution
- Comply with codes & fire testing
- Work within a budget tailored to your specific needs

PARTNER WITH AN INDUSTRY PACESETTER

- Over a quarter-century of shelter innovation
- Unique architectural appeal
- Designs to complement your existing building
- Accommodation for site requirements
- Cost-effective solutions
- Our crews install anywhere in the country



WE WROTE THE BOOK

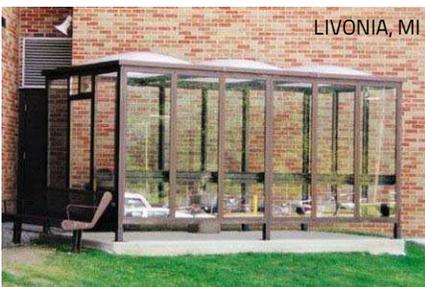
Duo-Gard helps you to provide tailored accommodation that makes it easier to enforce a designated smoking area. Choose from our unmatched array of sizes, styles, options and services. Take advantage of the expertise that pioneered the industry. Expertise that warranted the country's first smoking shelter GSA contract. Expertise in design, engineering, project management and installation - all geared around your project goals.

SHELTER HIGHLIGHTS

- Designed for any smoke-free facility
- Open, partially or fully enclosed
- Wide array of roof styles & materials to choose from to fit site requirements
- Large standard shelter sizes offered
- Broad range of amenities to outfit your shelter
- Electrical packages completely pre-wired at our factory
- Engineered for wind & snow loads
- Can be designed to meet any design code in North America pending structural engineer review
- Engineer-stamped designs available
- Easy to install & maintain
- Installation in all 50 states

PRE-WIRED AT DUO-GARD & READY FOR ACTION

- Complete electrical & lighting available
- Standard lighting or solar LEDs/PVs
- Heaters
- Air conditioners
- Exhaust fans
- Automatic door openers/closers
- Electronic controls: photocells, motion sensors, timers

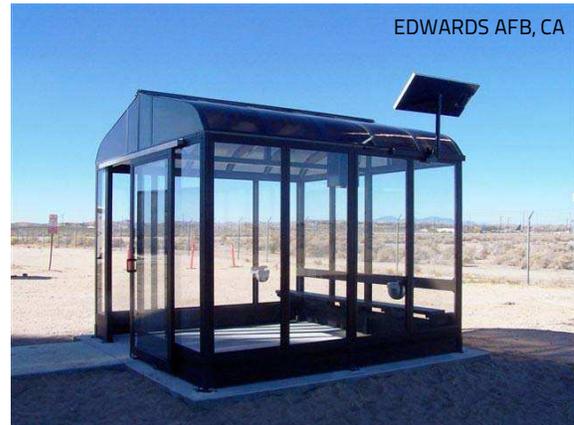


GO WITH THE FLO

Duo-Gard's Air-Flo Smoking Shelter was the world's first fully engineered, fully enclosed smoking shelter with built-in ventilation. It provides year-round accommodation and it's engineered for your code compliance requirements and your climate's wind and snow loads. Inventoried materials, standard features and available options combine for economy, shorter lead time and long life.

AIR-FLO SHELTER FEATURES

- 77 Sizes - from 4' x 4' to 16' x 37'
- Custom sizes also available
- Range of roof style options
- Continuous roof-ridge vent option
- 38" Swinging or sliding door
- Automatic door system option
- Storefront walls available
- Sliding screen panels available
- Shatter-proof & flame-retardant polycarbonate
- Other options include electrical packages, lighting, heating, cooling, exhaust, visibility panels, electronic controls, seating, ash urns & more (see pages 6-9)
- Engineer-stamped drawings available
- Standard sizes typically built & shipped in about 8 weeks



THE SKY'S THE LIMIT

Fully enclosed, open with a top canopy only or partially enclosed with two or three walls, these durable, vandal-resistant shelters are easy to install and maintain. Whether it is freestanding or located adjacent to an existing building, we create a structure that integrates seamlessly into your environment. We also offer an array of products and services that enhance and harmonize with your shelter to meet all of your requirements - both functionally and aesthetically.



COMPLEMENTARY PRODUCTS

- Passenger waiting shelters
- Canopies & walkways
- Solar PV canopies with charging stations
- Bike shelters
- Bike racks
- Site furnishings
- Benches & seating options
- Trash receptacles
- Ash urns & lighters
- ATM enclosures
- Parking meter/payment enclosures
- Mailbox enclosures



PRICING AND OPTIONS

Read on to see standard shelter sizes with pricing and more specifics including options, but keep in mind that Duo-Gard will design a custom size and configuration that best suits your situation. Don't know what you need? Call us. Talk with us about your company philosophy, climate and budget. The more comfortable occupants are, the more likely they'll be to use the shelter. We'll help you develop a smarter solution for all the people in your workplace.



AIR-FLO SMOKING SHELTER STANDARD SIZES

Duo-Gard offers 77 standard shelter sizes listed below, but we can design any custom size and configuration your organization requires.

		WIDTH						
		4'1"	6'1"	8'0"	10'2"	12'1"	14'1"	16'3"
L E N G T H	4'5"	✓						
	6'4"	✓	✓					
	8'3"	✓	✓	✓				
	10'5"	✓	✓	✓	✓			
	12'5"	✓	✓	✓	✓	✓		
	14'4"	✓	✓	✓	✓	✓	✓	
	16'6"	✓	✓	✓	✓	✓	✓	✓
	18'8"	✓	✓	✓	✓	✓	✓	✓
	20'7"	✓	✓	✓	✓	✓	✓	✓
	22'9"	✓	✓	✓	✓	✓	✓	✓
	24'9"	✓	✓	✓	✓	✓	✓	✓
	28'10"	✓	✓	✓	✓	✓	✓	✓
	32'11"	✓	✓	✓	✓	✓	✓	✓
37'0"	✓	✓	✓	✓	✓	✓	✓	

- Shelters shipped knocked-down & require assembly & installation
- Installation available nationwide
- Consult our Engineering Services Department for recommended foundation specifications
- Engineering & design services available for larger & custom-sized units
- All dimensions are +/- 1"
- We reserve the right to improve our product without notice
- All shipments F.O.B. Canton Michigan unless otherwise specified
- **Cancelled orders subject to minimum 20% restocking charge**

SHELTER OPTIONS

ELECTRICAL/LIGHTING PACKAGES

All wiring is in compliance with NEC standards. We have specification drawings available for standard & upgraded electrical/lighting packages for your review. Review local codes for compliance. Due to modular construction, the shelters are not hard-wired. The light fixture(s) plug into an overhead, supplied outlet. Standard & upgraded packages are designed to meet NEMA 3 requirements.

Standard This package is designed for 120 volt single-phase service & associated appliances. It includes (1) 4', two-tube, weather-resistant, fluorescent light fixture, (1) wall switch, (1) overhead outlet, (1) wall outlet with GFI, an exterior weatherproof electrical connection box & complete wiring through surface-mounted EMT & flexible conduit. Wired specifically for your floor plan. All electrical components are spec grade.

An **interior disconnect box** with fuses can be added.

Upgraded This package is designed for more complex electrical requirements involving 208 or 240 volt single-phase service & peripherals. It includes the base items in the standard package as well as a locking interior breaker panel (with clip-type breakers) of 60 or 100 amps, depending on shelter requirements. The appliances included will be wired, as described above, with appropriate circuits & breakers, depending on voltage & amps required.

Custom Custom electrical components can be specified in accordance with shelter & site requirements.

Additional Electrical/Lighting Options

Extra Lighting Units 2-tube, weather-resistant, 4' fluorescent commercial fixture including additional wiring.*

Extra Lighting Units 2-tube, weather & vandal resistant, 4' fluorescent commercial fixture including wiring.*

*Fluorescent tubes are not included in price and are to be provided by customer.

Outdoor High-Pressure Sodium Light Excellent lighting option for exterior of a shelter location.

Solar & LED Lighting Options Contact Duo-Gard for details.

CONTROLS

Our standard electrical packages utilize spec-grade switches to operate the specified shelter appliances. We also offer the following alternative control mechanisms:

Photocells A standard photocell will operate the lights.

Motion Sensor Operates 120 volt interior appliances such as exhaust fans &/or lights. 208 & 240 volt require special sensors. Contact Duo-Gard for additional information.

Additional Duplex Outlets One duplex is included with a standard electrical/lighting package. Additional locations are available with appropriate wiring.

Timers Pushbutton or spring-wound type, 15-60 minute range, typically used with 120-volt infrared Heaters.

SMARTER SOLUTIONS FOR ALL TYPES OF SHELTERS

HEATING

Electric Infrared Heaters

5118 BTU This 46" quartz tube heater runs on 120 volts & includes wiring & wall switch.

10,000 BTU This 49" quartz tube heater runs on 208 or 240 volts, includes wiring & wall switch.

Infrared Heater Guards These wire grate-type guards cover IR Heaters.

Electric Forced Air Heaters

17,000 BTU This ceiling-mounted unit runs on 240 volts & includes a thermostat & appropriate wiring. On/off control is maintained in the lockable breaker panel.

25,000 BTU This ceiling-mounted unit runs on 240 volts and includes a thermostat & appropriate wiring. On/off control is maintained in the lockable breaker panel.

Custom Heating Special heating requests can be accommodated to meet your requirements.

COOLING

A/C Ready Our shelters can be manufactured to accommodate air-conditioning units. This includes an opening built to your specification with reinforced framing & brackets. Wired & circuited into our electrical package.

12,000 BTU Air Conditioner running on 120 volt service

18,000 BTU Air Conditioner running on 208 volt service

24,000 BTU Air Conditioner running on 208 volt service

Heat Pumps & larger AC units are available. Please contact Duo-Gard for additional information

EXHAUST FANS/AIR QUALITY

All exhaust fans come with appropriate wiring, switch & framing for easy installation.

7" Exhaust Fan 135-cfm unit

10" Exhaust Fan 520-cfm unit

12" Exhaust Fan 980-cfm unit

DOORS

Manual Door Systems

One 38" x 80" sliding or outward swinging door system is included in the price of the standard unit. The standard door includes bronze PCSS glazing. The swinging door also includes a stop chain. Additional doors can be included.

42" Doors are available in sliding or swinging versions as an upgrade.

Door Closers A commercial closer including reduced opening force below 5 pounds, delay feature & hold-open capability. Medium-duty for standard, heavy-duty for storefront door.

Storefront Doors 36" x 80" door, commercial grade, narrow stile, aluminum door & frame with ¼" clear tempered safety glass. Out or in swing with closer, dead bolt lock & 10" ADA bottom rail. Hold-open delay feature capability.

42" & other custom doors & glazing options are available upon request.

Automatic Door Systems

We offer automatic door systems for both swinging & sliding doors. Field installed.

Swinging Automatic Door These systems can work with either our standard door or customer doors. They include adjustable, hold-open features, wall-mounted push plates.

Sliding Automatic Door These systems typically include a single-panel glass door with motion sensors, adjustable, hold-open feature & meet all building & fire-code requirements.

DESIGN & ENGINEERING SERVICES TO ENSURE YOUR SATISFACTION

GLAZING PANEL UPGRADES

Insulated Ceiling & Wall Panels are especially effective if heating &/or cooling is included in the shelter. The ceiling panels are also very beneficial in eliminating solar heat gain & feature highly insulating translucent, Lumira® aerogel by Cabot Corporation. A sales consultant can provide you with pricing for each of our shelter configurations.

Wind Skirting for transit-style shelters closes the airspace at the bottom of the walls & is designed to stop wind & rain, but is not intended as a barrier to prevent ground water penetration. Per linear foot

Sliding Windows with screens can be added to transit-style shelters.

Other Options: Clear or tinted solid polycarbonate or acrylic, tinted glass, laminated glass, perforated metal, solid P15 panels & colored, translucent polycarbonates.

BENCHES WITH BACKRESTS

Anodized Aluminum Bronze anodized seating & backrests attach to the shelter wall. These can be attached to the inside &/or outside of the shelter.
Per linear foot

Hardwood Polyurethane-sealed, hardwood seating & backrests. Eased-edge sanded benches for inside &/or outside of the shelter.
Poplar, Oak or Maple

CIGARETTE URNS

Removable Wall Type These red rectangular urns provide for easy cleaning with appropriate message to users.

Permanent Flip Type Stainless-steel bowl flip-type urn affixes to shelter walls.

Stand Up Type Sand-type urn including a trash receptacle.
Additional urn types available upon request.

CIGARETTE LIGHTERS

Pushbutton or Touch-activated Lighters can be wired into your electrical package.
One-button lighter, installed
Additional options are also available.

CUSTOM ALUMINUM/GLAZING

Various custom colors are available in both aluminum & glazing in addition to our standard bronze color. These are special projects & would add cost and additional turnaround time to our standard offering. A sales consultant can provide you with information based upon your specific project.

A VARIETY OF OPTIONS FOR THE PERFECT FIT

ROOF STYLES

Duo-Gard's standard Smoking Shelter roof style is a vented gable curved eave roof manufactured with 6mm structured polycarbonate. Examples of this roof can be found on page 3, all pictures, & on page 4, Decatur, GA.

Flat Pan Aluminum Roof - This option is the same price as our standard roof for shelter widths of 12' & under. There are additional costs for shelter widths in excess of 12'. The roof is a white - both interior & exterior sides - aluminum roll formed flat pan roof in baked enamel or Kynar finish, both interior & exterior. Examples of this roof can be found on page 1, Columbus, MO & page 4, Broadview, IL.

We have many other roof styles to meet your project requirements. To calculate the price of your shelter with the roof upgrade, simply multiply the base price of the selected shelter by the amount shown below.

Gable Roof Upgrade

The gable roof upgrade includes a standard ¼" clear, opal or bronze tint structured polycarbonate roof or standing seam metal (color from manufacturer's standard color guide).

Hip Roof Upgrade

The gable roof upgrade includes a standard ¼" clear, opal or bronze tint structured polycarbonate roof or standing seam metal (color from manufacturer's standard color guide).

Dome Roof Upgrade

The dome roof upgrade includes a standard white or bronze tint acrylic dome roof.

Barrel Vault Roof Upgrade

This barrel vault roof upgrade is for units greater than 7' 6" in width. The roof is a standard ¼" clear, opal or bronze tint structured polycarbonate. Standard pricing applies to shelters that are less than 7' 6" in width.

Barrel Vault Metal Roof Upgrade

This barrel vault roof upgrade is for any standing seam metal barrel vault units regardless of the roof width. Standing seam metal color is selected from the manufacturer's standard color guide.

STOREFRONT WALL OPTIONS

Our smoking shelters are also available with storefront wall glazing. We offer either ¼" tempered safety glass or 1" insulated glass. Storefront walls provide a greater level of protection from water penetration than standard walls. Wall glazing options include the following:

- ¼" clear tempered safety glass
- ¼" bronze tint tempered safety glass
- 1" insulated glass with clear tempered safety glass
- 1" insulated glass with bronze tint tempered safety glass

FOSTERING SPACES IN HARMONY

Talk to us about forging ahead with reliable products that contribute to a sustainable environment. Call us today at 734.207.9700 or email at info@duo-gard.com

