A shopkeeper rolls out an awning at the beginning of the workday; a family gathers under a porch awning on a late summer afternoon. These are familiar and compelling images of earlier urban and residential life in America. For two centuries, awnings not only played an important functional role, they helped define the visual character of our streetscapes. Yet, compared to historic photographs of downtowns and neighborhoods with myriad awnings, today’s streets often seem plain and colorless.

Throughout their history, awnings have had great appeal. Along with drapes, curtains, shutters, and blinds they provided natural climate control in an age before air conditioning and tinted glass. By blocking out the sun’s rays while admitting daylight and allowing air to circulate between interior and exterior, they were remarkably efficient and cost effective. Awnings permitted window-shopping on rainy days; they protected show window displays from fading due to sunlight. On the primary facade and near eye level, they were central to a building’s appearance. Manufacturers came up with attractive, attention-getting awnings featuring distinctive stripes, ornate valances and painted lettering and logos. With a wide range of color and pattern choices, owners could select an awning that complemented the building and get both style and function in a relatively affordable package (Figs. 1 and 2).

In recent years, building owners and others interested in historic buildings have rediscovered awnings. Local
Figure 2. Awnings were an easy way to dress up and distinguish homes of virtually any style. Image: Otis Awning Fabrics Company brochure, c. 1920s.

“main street” preservation programs encouraging—and in some cases funding—rehabilitation work have helped spur the awning’s return. Continued concerns over energy efficiency have also persuaded building owners and developers to use awnings to reduce heat gain, glare, and cooling costs. Because awnings were so common until the mid-twentieth century, they are visually appropriate for many historic buildings, unlike some other means of energy conservation.

This Preservation Brief provides historical background information about diverse awning applications in the United States; suggests ways that historic awnings can best be maintained, repaired, and preserved; and recommends the varying circumstances in which replacement in kind, or new awning design may be appropriate for historic buildings.

Historical Background

Awnings are remarkable building features that have changed little over the course of history. Records dating back to ancient Egypt and Syria make note of woven mats that shaded market stalls and homes. In the Roman Empire, large retractable fabric awnings sheltered the seating areas of amphitheatres and stadiums, including the Coliseum. The Roman poet Lucretius, in 50 B.C., likened thunder to the sound that “linen-awning, stretched, o’er mighty theatres, gives forth at times, a cracking roar, when

Figure 3. Early 19th century awnings featured canvas coverings stretched between the building facade and post-supported front bars. Projecting frameworks of extension bars were not common until later in the century. Photo: Second Street, Philadelphia, c. 1841, Print and Photo Collection, The Free Library of Philadelphia.
Awning Vocabulary

roller window awning

fixed-arm awning

to

lateral-arm awning

scissors-arm awning

fixed pipe frame

projection

drop

roller

valance

extension arm

slide rod

gearbox

covering

extended

hood

extended

retracted

front-bar

upright

rafter

head-rod
awnings. Photographs from the mid-1800s often show the bare framework, suggesting that the covering was extended only when necessary. Canvas duck was the predominant awning fabric (Fig. 4). A strong, closely woven cotton cloth used for centuries to make tents and sails, canvas is a versatile material with a relatively short lifespan compensated for by its low cost.

Awnings became a common feature in the years after the Civil War. Iron plumbing pipe, which was quickly adapted for awning frames, became widely available and affordable as a result of mid-century industrialization. It was a natural material for awning frames, easily bent and threaded together to make a range of different shapes and sizes (Fig. 5). At the same time the advent of the steamship forced canvas mills and sail makers to search for new markets. An awning industry developed offering an array of frame and fabric options adaptable to both storefronts and windows.

Operable Awnings. In the second half of the 19th century, manufactured operable awnings grew in popularity (Fig. 6). Previously, most awnings had fixed frames—the primary way to retract the covering was to roll it up the rafters by hand. Operable systems for both storefront and window awnings had extension arms that were hinged where they joined the facade. The arms were lowered to project the awning or raised to retract the awning using simple rope and pulley arrangements. Because the canvas remained attached to the framework, retractable awnings allowed a more flexible approach to shading—shopkeepers and owners could incrementally adjust the amount of awning coverage depending upon the weather conditions. When the sun came out from behind clouds, the awning could be deployed with ease. In case of sudden storms, owners could quickly retract the awning against the building wall where it was protected from wind gusts.

But the early operable awnings had their own drawbacks. When retracted, the covering on early operable awnings bunched up against the building facade where it was still partially exposed to inclement weather. (In fact, deterioration was often accelerated as moisture pooled in the fabric folds.) Also, the retracted fabric often obscured a portion of the window or door opening and unless it was folded carefully, presented an unkempt appearance.
Roller Awnings. Addressing the drawbacks of the original hinged awning, new roller awnings featured a wood or metal cylinder around which the canvas was stored when the awning was retracted. When fully retracted, only the valance was visible (Fig. 7). The roller was usually bolted to a backboard set against the building and protected beneath a wood or galvanized metal hood. In some cases it was installed in a recessed box built into the facade. A long detachable handle (called a "winding brace"), or a gearbox and crankshaft attached to the building, was used to turn the roller. Some later models were operated by electric motor. Rollers, especially those on window awnings, often contained a spring that helped retract the awning and kept the canvas from sagging excessively.

Most 19th century roller awnings had fixed arms that were similar to those found on the earlier operable awnings. The arms hinged flush to the building when the awning was retracted and, with the help of gravity, straightened out over the sidewalk when extended. When a storefront awning's projection exceeded its drop by more than a foot, its long arms were connected to an adjustable slide rod rather than hinged directly to the building facade—increasing head room along the sidewalk (Fig. 8).

Shapes and Stripes. An expanded variety of available canvas colors, patterns, and valance shapes also appeared during this period. Some coverings were dyed a solid color; shades of slate, tan, and green were especially popular. Others had painted stripes on the upper surface of the canvas. Awning companies developed a colorful vocabulary of awning stripes that enhanced the decorative schemes of buildings, and in some cases, served as a building's primary decorative feature (Fig. 9).

The broader choice of frame and canvas options encouraged the reassessment of awnings simply as a means to provide shelter from rain and sun. Homeowners found that the new generation of awnings could enhance exterior paint schemes and increase the visual appeal of their homes. Manufacturers developed new awning shapes, colors, patterns, and hardware to fit different house, door, window and porch styles (Fig. 10). They were an affordable, quick and simple improvement. They also proved to be an easy means of capturing outside space. Homeowners could use awning-covered balconies, porches and patios at any time of day; grocery stores were able to convert sidewalks to outdoor display areas protected from sunlight and quick changes in the weather. On Main Street, businesses used the expanded repertoire of awnings to draw attention to their buildings with bright colors, whimsical stripe patterns and exotic scallops.

Figure 7. Early 20th century photo showing two operable awnings, an early version on the left and a next-generation roller awning on the right. The roller awning, with no side panels and just the valance showing, presented a clean storefront appearance. Photo: Utah State Historical Society, used by permission, all rights reserved.

Figure 8. The roller bar at the top of a fixed-arm awning is cranked to release the fabric. As the canvas unfurls the vertical arms swing downward from their lower point. Because the pictured awning had a large projection, extending far from the building wall, the lower hinges were mounted on vertical slide rods affixed to the facade. When the awning is lowered, the bottom hinges of the arms travel up the slide rod to increase headroom beneath the fully extended awning.
Awnings increasingly functioned as signs identifying the proprietor’s name, goods on offer, or year of establishment. It was a trend that would culminate over a century later with awning installations in which shelter was secondary to advertisement (Fig. 11).

**Awnings in the 20th Century**

Awnings were manufactured frames and cut cloth for every type of window and door opening. This 19th century catalog illustration provided measuring instructions to assure a custom fit. Awnings were typically set within the window opening.

New folding-arm awnings appeared that operated either vertically or horizontally supplementing the fixed-arm awnings developed in the latter 19th century. Vertical folding arms were made up of smaller hinged arms that crossed like scissors. Operated by gravity, the arms extended outward pulling the covering off the roller. Like a fixed-arm awning, the pitch of this scissors-type awning varied depending on whether it was fully or only partially extended (Fig. 12). Somewhat different was the “lateral arm” awning, a horizontally operating awning that worked like a human elbow with the spring action in the arms pushing outward toward the street, unfurling the cover from the roller and maintaining tension. Lateral-arm awnings featured a shallow drop that remained relatively constant regardless of how far the arms were extended (Fig. 13). Operable awnings, whether fixed arm, scissors arm, or lateral arm, rapidly gained popularity as customers came to appreciate the flexibility, concealed appearance, and longer lifespan made possible by roller units.

**New Coverings.** Slower to change was the fabric used to cover awnings. Canvas duck remained the common awning fabric during the first half of the 20th century. However, its tendency to stretch and fade, and its susceptibility to mildew, and flammable materials like cigarettes and matches motivated the awning industry to search for alternatives. Shortly after World War II, a vinyl plastic coating that increased fade and water resistance was first applied to the canvas. By the 1960s, vinyl resins, acrylic fibers and polyester materials were all being used to provide a longer-lasting awning cover. Ironically, just when these innovations promised more
Figure 12. Scissors-arm awnings have a pair of vertical, hinged arms on either side of the assembly supporting the front bar. To unfurl the awning, the roller is cranked and the arms extend outward pulling the cover away from the roller.

Figure 13. Lateral-arm awnings were preferred on long elevations, especially those with sheet glass (where vertical arms could not be fastened to the building facade). When lateral arm awnings were installed across a broad storefront or porch, manufacturers recommended spacing the arms at approximately eight foot intervals.

durable awnings, the fabric awning industry felt the impact of changing architectural fashion, the widespread adoption of air conditioning, and the increasing availability of aluminum awnings.

Modernism dominated commercial architecture during the postwar era. The style’s signature form—austere steel, glass and concrete boxes—had little use for fabric awnings. Colorful awnings seemed old-fashioned, an unwanted distraction from the smooth lines of the machine aesthetic. The preference, instead, was for perforated structural screens or brises-soleil (French: “breaks the sun”) that integrated shading functions with new building forms. It was assumed that new buildings had no need for awnings. Widely available for the first time, mechanical air conditioning threatened to make the awning an unnecessary vestige of an earlier era. Awning companies fought back with arguments that traditional shading systems could reduce the required size and investment in air conditioning systems. Though canvas awnings continued to be used on contemporary buildings, new types were often selected to do the job, aluminum and fiberglass awnings.

Widely available by the 1950s, aluminum awnings were touted as longer-lasting and lower-maintenance than traditional awnings. Though used on small-scale commercial structures, they were especially popular with homeowners. Aluminum awnings were made with slats called “pans” arranged horizontally or vertically. For variety and to match the building to which they were applied, different colored slats could be arranged to create stripes or other decorative patterns. While aluminum awnings were usually fixed, in the 1960s several operable roller awnings were developed, including one with the trade name Flexalum Roll-Up (Fig. 14).

Also during this period, manufactured flat-metal canopies were an increasingly popular feature, used in new commercial construction and when remodeling existing storefronts. They were particularly common in the South where shading was critical to the comfort of both window shoppers and store interiors. Often made of aluminum, the canopies could stretch across a single facade, or be connected to extend along an entire block.

New Shapes. An increasing reliance upon fixed aluminum frames and plastic coverings spurred the development of new awning shapes during the 1970s and 1980s. Often, the awning served as a business’s primary sign. Mansard awnings, concave awnings, quarter-round awnings, and quarter-rounds with rounded dome ends appeared with increasing frequency. Most had vinyl or other plastic coverings that were touted as being more resilient than traditional materials. Featuring bold lettering and colors that were often emphasized by illuminating the awnings from within, these awnings were common on new commercial strips and were even popular inside enclosed shopping
centers and food courts. They were also applied, less successfully, to older or historic buildings where their shape, size, and material bore little resemblance to traditional awnings.

Although the 1950s and 1960s saw the end of the canvas awning's ubiquity on Main Street, it remained a moderately popular feature of residential architecture. New materials and technologies such as lateral arm operators, acrylic fabric, and aluminum kept the awning relevant to the postwar ranch house and afforded an economical way to update older structures. Colorful awnings helped suburban dwellers distinguish their homes from other, similar, models in the neighborhood.

**Awnings Today**

Today, awnings come in a variety of shapes, sizes, frames and fabrics. Fixed, quarter-round, back-lit awnings with broad faces featuring company names, logos, phone numbers, and street addresses function more as signs than sunshades. Restaurants and other commercial chains use illuminated awnings with nationally recognized brand graphics and stripe and color patterns to attract customers along suburban strips. The triangular shed frame shape has enjoyed a resurgence of popularity in recent years, in many cases playing off nostalgia for the traditional awning. Relatively new “staple-in” awnings with a shed shape are commonly used on new commercial construction. This system has a welded frame of extruded aluminum with a slot on the outer edge. The fabric covering is pulled taut, and the ends are secured in the groove with galvanized steel staples. A vinyl trim bead covers the groove, protecting the fabric edges and providing a flush appearance.

Apart from the strip mall, awnings are also reappearing in historic business districts and residential neighborhoods. In these locations, new awnings typically feature fixed frames or operating lateral arms—both differing little from the awnings of one hundred years before. Fixed-frame awnings have frames made of either aluminum or light-gauge galvanized or zinc-coated steel pipes welded together. Frames are secured to building facades with clamps, z-shaped clips, and other hardware. Until recently, operable awnings found in historic commercial districts were primarily those with historic frames and hardware that had survived to the present. But new lateral-arm awnings with powder-coated aluminum frames are an increasingly common choice for building owners who want the convenience of an operable system.

Solution-dyed acrylics and acrylic-coated polyester-cotton blended fabrics are often used to replicate historic awning coverings. These relatively new materials resemble canvas in appearance and texture, yet offer greater strength and durability. Because acrylics are woven (with the stripes and colors woven directly into the fabric rather than painted on the surface), they are durable and allow light to filter through while keeping heat out. They dry quickly, thereby reducing damage caused by mildew, and contain a UV inhibitor that further reduces sunlight damage. Poly-cotton fabrics coated with a thin acrylic layer that repels dirt and resists abrasion are also used. Both acrylic and poly-cotton fabrics do not stretch or shrink like traditional canvas so they are generally easier to measure, cut, and install.

**Preserving Existing Historic Awnings**

If awnings already exist on a historic building, they should be evaluated to determine whether they are appropriate to the age, style, and scale of the building, using the criteria identified below. Backlit awnings and dome awnings are usually inappropriate for 19th century and other historic buildings, while aluminum awnings may be perfectly compatible with buildings from the 1950 or 60s (Fig. 15). The time is approaching when some aluminum awnings may even be considered appropriate to older buildings, if the awnings formed part of an updated storefront, or are central features of an intact postwar refashioning of the building’s exterior (Fig. 16).
When an existing awning is determined to be appropriate to the building, a program of repair and regular maintenance should be developed. The condition of its covering, hardware, connections between the hardware and the building, and the awning's operability should be evaluated. Hardware such as arms, rollers, and gearboxes may only need cleaning and lubrication. In other cases more substantial repairs by an awning company familiar with historic hardware may also be needed.

Awning Repair and Maintenance. The best preservation practice is to maintain and repair historic features. The proper care and maintenance of existing awnings and canopies will extend the life of both hardware and covering while ensuring the safety of those passing beneath them. Parts for historic hardware can still be obtained from some suppliers, either from existing stock or as newly manufactured pieces. In some cases, new marine and boating hardware can substitute for missing historic awning hardware. Damaged pieces of the still popular galvanized pipe frames can easily be bent back into shape or, if necessary, replaced with virtually identical material.

Ongoing maintenance consists of keeping all pivot points and gears lubricated and clean of debris. Regular inspections should also include checking for rust on the frame and hardware. Such areas should be promptly scraped and painted, as rust may discolor and deteriorate fabric coverings. When awning hardware is properly repaired and maintained, its lifespan can be significantly extended.

Exposure to the elements and the limited lifespan of even new acrylic fabrics mean the repair and replacement of the covering will probably occur more frequently than work on the frame or hardware. The longevity of any fabric covering is largely dependent upon where it is installed and how it is cared for. Awnings beneath overhanging trees, for example, are vulnerable to sap, fruit, and animal droppings that contain acids, which can deteriorate and discolor fabrics. Branches, flags, banners or other objects brushing against an awning can abrade the awning fabric. With proper care acrylic fabrics on fixed awnings have a service life of eight to fifteen years of year-round exposure.
Regular cleaning will lengthen the lifespan of any awning. About once a month the covering should be hosed down with clean water. Choose a sunny day so that the fabric dries quickly and thoroughly. Keep retractable awnings extended until they dry completely. The awning underside can be kept clean by brushing it with a household broom. Regular cleaning helps prevent dirt from becoming embedded in the fabric. At least twice a year the awning should be gently scrubbed using a soft brush and a mild, natural soap (not a detergent) and rinsed with a garden hose. Every two or three years, professional cleaning is recommended. During this process, the covering is usually removed from the building, washed, and treated with an appropriate water repellant solution. Local awning companies may offer this service or the building owner can ship the covering to a specialty awning cleaning firm. Depending on the frame style and fabric, some awnings may be cleaned without being removed.

While most fixed awnings remain in place year-round, they last longer if taken down at the end of the warm weather season. Preferably, coverings should be removed by an awning service that can clean them, restitch seams if necessary, and store them for the winter. Property owners removing awning coverings themselves need to store them in a dry place with good air circulation.

If a covering begins to sag between cleanings, the cause (an object on top stretching the material, loose laces, a damaged seam) must be addressed as soon as possible. When other maintenance or repair work is undertaken on the building, it is advisable to remove fixed awnings temporarily, as they are easily damaged or stained by materials dropped from above.

Although more durable than in times past, awning covers can still develop tears and holes caused by ladders, falling trees, and vandalism. Fabric nearing the end of its service life is most vulnerable to tearing along the seams. Though awning companies are usually called to do repairs, enterprising owners can undertake some work themselves. If the damage is minor, repair work may be done while the awning remains in place. Small holes or tears in acrylic coverings can be immediately treated with a hot needle or awl that will melt the frayed edges and prevent the damage from spreading. Patch kits are available that function like band-aids, keeping the torn edges together. These patches, glued or sewn to the fabric, let the awning color show through but do have a semi-gloss sheen to them. Significant damage requires removing the covering and, usually, sending it to a sewing shop. There, work may include inserting a fabric patch, restitching seams, or replacing an entire fabric panel. If the awning is relatively new it is possible to obtain a good match between replacement and original material.

Installing New Awnings

Since fabrics are subject to weathering and deterioration and hardware is exposed to the elements, some awnings may be beyond repair. Depending on the circumstances, new awnings may replace deteriorated existing awnings in kind or be installed where awnings were once in place as seen in pictorial or physical documentation. In other instances, they may be newly installed where no awning previously existed, provided they are compatible with the historic building. Whatever the circumstances, it is important to select an appropriate awning shape, material, frame dimensions, signage (if any), and placement on the facade.

If the condition of a historically appropriate existing awning is beyond repair, it should be used as the basis for selecting a replacement. When a historic awning is missing, owners should first look for evidence of a previous awning installation. Evidence can be either physical or documentary. The existence of surviving hardware—rollers and arms, gearboxes, clamps and other fasteners—or signs that hardware was once in place, such as bolt holes or recessed roller boxes—are the most likely forms of physical evidence (Fig. 17). Storefront remodeling projects often uncover concealed and disused awning hardware that can either be repaired or at least suggest what type of awning was formerly in place. This is especially true for awnings that had an operating rod, gearboxes, and perhaps motors concealed in recesses within the building wall. Protected from the elements, these items are likely to survive in repairable condition. Sometimes physical evidence of earlier awnings can be found in the basement or upper floors where hardware and even old coverings may have been stored after being removed from the facade. Clamps, fasteners, and bolt holes in an exterior wall can reveal the position, type and dimensions of a missing awning.
Figure 17. A gearbox, slide rod, roller, front bar, and extension arm reveal that this 19th century building once featured a retractable awning. It is likely that with minor repairs the surviving hardware could again be made operable, recovered with a canvas or acrylic fabric, and reused to service the storefront.

Where no awning currently exists, and there is no evidence of a past one, it may still be possible to add an awning to a historic building without altering distinctive features, damaging historic fabric or changing the building’s historic character. A new awning should be compatible with the features and characteristics of a historic building, as well as with neighboring buildings, or the historic district, if applicable. Historic photographs of similar neighboring buildings with awnings, can also be helpful in choosing an appropriate installation. When selecting and installing a new awning, a number of other factors should be considered: shape, scale, massing, placement, signage, and color.

Shape. Traditionally, both residential and commercial awnings were triangular in section, usually with a valance hanging down the outside edge (Fig. 19). Early examples of these “shed” awnings had simple...
frameworks consisting of pipes or planks angling out from the building facade and supported on posts. Early retractable versions continued this triangular form. New awning shapes appeared in the later 19th century to accommodate the expanding variety of door and window configurations. Casement window awnings were box-like in shape to accommodate the outward swing of the vertical sash. Window openings with arched tops, such as those found on Italianate houses and commercial buildings, were often shaded by awnings with matching tops.

Generally, traditional shed awnings are appropriate for most historic window, door, and storefront installations. It is preferable (and in some historic districts, required) that these awnings have free-hanging valances, the flapping bottom pieces so characteristic of historic awnings. Quarter-round awnings, modern mansard awnings, and other contemporary commercial designs with distended, fixed valances have no precedent in traditional awning design and are usually inappropriate for historic buildings (Fig. 20).

Likewise, staple-in systems are not recommended for historic buildings. One of the distinctive features of a staple-in system is an exceptionally taut and wrinkle-free appearance; indeed, this is a chief appeal of the system when applied to new construction. Historic awnings, however, were either retractable or built with a covering laced onto a frame. Both forms had a fair amount of give in the fabric. Staple systems, especially those with long valances, usually present an appearance more suited to newer construction. While not recommended for installation on most historic buildings, they may be suitable for infill construction within a historic district.

Scale, Massing, and Placement. Because their primary purpose was functional rather than decorative, awnings were traditionally installed only where necessary. Window awnings were most commonly found on building elevations with southern exposures in the northern areas of the United States and on elevations with both northern and southern exposures in the southern United States. They were also found on east and west elevations, and sometimes just on selective windows. Retractable awnings were originally more common in northern climates where awnings required additional protection from extreme weather conditions.

The design of a particular commercial building influenced the placement of its awnings. Some storefronts with traditional glass transoms had the awning placed below the transom, others, had the awning installed above the transom. On both commercial and residential buildings, awnings were only wide enough to cover the window openings that they sheltered; a single awning rarely covered two or more bays (Fig. 21). On storefronts, they were not higher up on the building facade than was necessary to shade the entrance and display window. Thus, it is important
when installing new awnings on historic buildings to ensure that the covering not obscure the building’s distinctive architectural features (Fig. 22). Also, new awning hardware should not be installed in a way that damages historic materials. Clamps and fasteners used to attach awning frames should penetrate mortar joints rather than brick or other masonry surfaces. If new backboards and rollers are installed, care needs to be taken not to damage cornices or transoms. Finally, awning placement, size, and shape must be compatible with the historic character of the building (Figs. 23 and 24).

Material. Historically, awnings were covered with canvas that was either solid in color or painted with stripes. During the second half of the twentieth century canvas fell out of favor and was superseded by vinyl and other synthetic textiles. For various reasons—particularly its reflectivity and texture—vinyl is generally an unsuitable material for awnings on historic buildings. Many historic review commissions note the inappropriateness of vinyl in their guidelines and call for the use of canvas, canvas blends, or acrylics that resemble canvas.

Weather-resistant acrylic fabrics such as solution-dyed acrylic and acrylic-coated polyester-cotton approximate the historic look of canvas coverings, yet afford a new level of durability, color-fastness, and ease of use. Quality poly-cotton coverings may be more appropriate in some cases because, like traditional awnings, the colors and stripes are painted directly on the upper surface, while the underside remains a pearl gray color.

Signage. In addition to sheltering shoppers and merchandise, and reducing glare and temperatures, awnings on commercial buildings offer valuable advertising space. Photographs from the mid-19th century show a wide range of lettering and logos—business names, types of trade (hosiery shop, telegraph house), street numbers—on the sloped coverings and side flaps of awnings. The most common placement of a shop proprietor’s business name or service was on the valance hanging down from the awning edge. The front valance provided a flat surface visible whether the awning was retracted against the building wall or fully extended (Fig. 25). Many establishments, however, left their awnings unadorned without any lettering.
Figure 24. This awning, extending across much of the building, is incompatible in shape. Of greater concern, however, is that its size wholly overshadows the modest historic building behind.

Figure 25. Appropriate lettering, as on this roller awning valance, can function as distinctive signage without detracting from the historic character of the building.

Figure 26. The green and burgundy stripes that decorate these porch awnings complement the matching shutters and brick facade.

designs embellished building facades like a necktie or scarf does a suit. The vibrancy they lent to city streets and neighborhoods is part of the history of these environments and similar results can be achieved today as well.

**Awning and Canopy Regulation**

Because commercial awnings often extend into the public right-of-way, municipal building departments usually regulate their use. Regulations specify construction type (materials and dimensions of framing members, the use of flame-retardant fabrics), minimum height above the sidewalk (usually between seven and ten feet), minimum distance between the projecting edge and the curb (usually between one and two feet), and maximum projection from the building wall. Today creating large lettered signs on a new awning as part of a rehabilitation project requires special care and is not appropriate in all cases.

Such regulations are meant to ensure that awnings are securely built, do not pose a threat to pedestrians, and

**Color.** As in the past, variety in awning color is an appropriate characteristic when reintroducing awnings in historic districts.

Since the 19th century, awnings have featured a range of different stripe patterns and an extensive color palette (Fig. 26). These lively, even whimsical,
are not at risk from widely-loaded trucks. Lettering, color, and the relationship to adjacent awning designs may also be subject to building department review and approval.

Awning work on buildings located in historic districts will likely be reviewed by a historic district commission (HDC). HDCs may also review grant applications and recommend approvals for facade improvement programs, where such programs are in place. Though commissions look at projects on a case-by-case basis, many have established guidelines that address general issues and local concerns relating to awnings and canopies (Fig. 27). Often, local design guidelines are modeled upon The Secretary of the Interior’s Standards and Guidelines for Rehabilitating Historic Buildings. These standards set forth principles meant to ensure that new elements are added sensitively, do not damage historic fabric, and are compatible with the historic character of the building.

**Summary**

Like all exterior building features that are subjected to snow, rain, sunlight, wind, and pollution—awnings need regular attention. Covered even with modern materials, they require maintenance, repair, and eventually replacement. Awnings are often the first feature to be altered when historic buildings change owners or uses. They often have a significant role in contributing to the historic character of a building. It is important that owners, architects, engineers, historians, and others consider this when planning work on a historic building.

**Awnings and the Sun**

Although their effectiveness can be affected by many factors including location, climate, window size, and glass type, the energy efficiency advantages of awnings are clear. According to the Department of Energy, awnings can reduce heat gain up to 65% in south facing windows and up to 77% on windows facing east. Awnings reduce stress on existing air conditioning systems, and make it possible to install new HVAC systems with smaller capacity, thus saving purchasing and operating costs. Air conditioners need to work less hard, less often. When used with air conditioners, awnings can lower the cost of cooling a building by up to 25%.

Awnings offer a number of benefits to owners of historic buildings. Awnings can make unnecessary a host of other alterations made to buildings in the name of energy efficiency. Awnings provide nearly comparable glare reduction and reduced heat-gain as tinted windows or window films, yet are in keeping with the historic appearance of a building facade. They help protect historic windows and storefronts, and allow windows to remain open, and cool air to circulate, even during inclement weather. In warm climates, they reduce the need to replace existing windows with new insulating glass units for the purpose of energy conservation.

Awnings were reinstalled on the east, west, and south windows of the Florida State Capitol in the 1980s. With a design based on those seen in historic photographs of the building, the new awnings allowed a downsizing of the HVAC system by 25 tons. After installation, the exposed glass surface in a typical first floor office accounted for only 46% of the required cooling load, down from 72%. Photo: Division of Historical Resources, Florida Department of State.
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Acknowledgements

Chad Randl is an Architectural Historian with Technical Preservation Services, Heritage Preservation Services Division, National Center for Cultural Resources, National Park Service, in Washington, D.C.

The author wishes to thank the following for their assistance in the preparation and review of this brief. Scott Massey of Awning Cleaning Industries; Walter L. Conine of John Boyle & Company, Inc.; Jacob I. Luker of Muskegon Awnings; Steve Morenberg of Reeves Brothers, Inc.; Karen Musech of the Industrial Fabrics Association International; Robert Montgomery of Montgomery Shade & Awning, Ltd.; Michelle Capek of the Astrup Company; Bruce N. Wright of Fabric Architecture; Lincoln H. Christensen of Anchor Industries, Inc.; Mike Jackson, FAIA, of the Illinois Historic Preservation Agency; Stephen Stowell of the Lowell Historic Board; and Sharon C. Park, FAIA, Michael J. Auer, Kay D. Weeks, Anne Grimmer, Lauren Van Damme, and Charles E. Fisher of Heritage Preservation Services, National Park Service.

Front cover image: Anchor Industries, Inc.

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ISSN: 0885-7016

April 2005