



Radiant Panels & Chilled Sails Architectural Portfolio

Radiant panels & chilled sails improve thermal comfort while providing energy efficiency and contributing to LEED designation.

Visit twapanel.com/radiant-panels
for more information.



Radiant Panels & Chilled Sails

Architectural Portfolio

Twa radiant panels are an excellent way to provide improved thermal comfort and energy efficiency while conforming into the architectural design of a space.

The following pages showcase the various configurations that Twa offers, and provides images of past installations to illustrate how Twa radiant systems can be installed in a variety of shapes, sizes, and finishes to satisfy the unique demands of each application.

Twa invites the opportunity to work closely with your design team to produce a solution that is ideal for your unique design vision.



Custom Linear Radiant Panels 04



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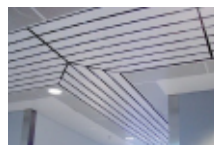
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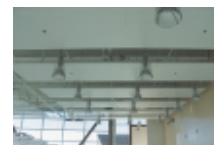
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Custom Linear Radiant Panels

Linear panels are at the heart of the Twa panels offering, and can be customized in a variety of ways to suit specific architectural requirements. Some of the more common methods of customization are described below:

Curved

Linear panels can be curved to create a sleek, modern design.

Element Integration

Cutouts for lights, sprinklers, grilles, and registers can be integrated into panel construction to save ceiling space and improve aesthetics.

Support Integration

Panels can be built around building structural supports increasing design flexibility.

Custom Sizes

The length and width of each panel can be customized to fit the specific requirements of your design.

Security

Smooth-faced aluminum radiant panels are vandal resistant, making them ideal for high-security areas.

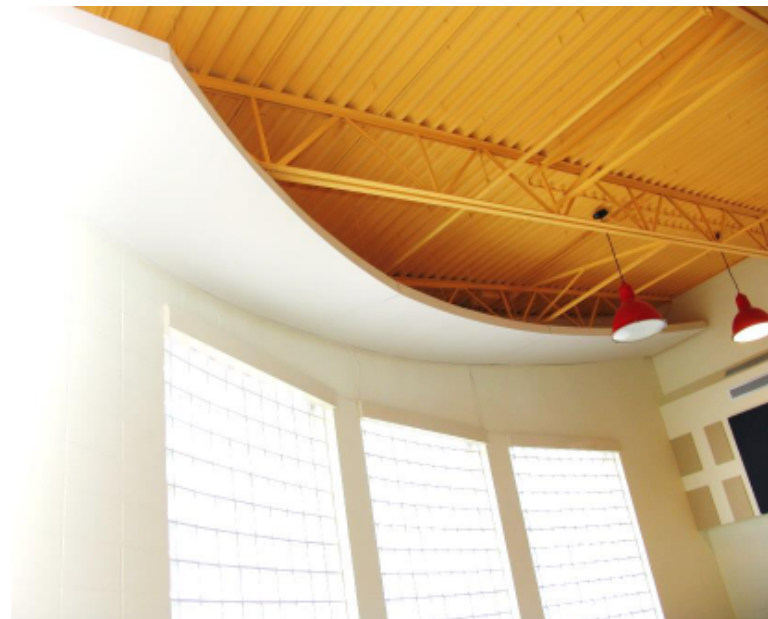


Pictured left to right (following page):

Segmented Arc with linear panels can provide cooling/heating while following an Architectural feature 01

Smooth Arc with custom panels can provide cooling/heating while following an Architectural feature 02

Aesthetically pleasing finishes and surfaces can be applied to blend into, or compliment an Architectural design 03





01



02



03

Modular Radiant Panels

Modular panels can be easily installed in an exposed grid acoustical ceiling system including both T-Bar and Tegular options:

T-Bar

Modular panels can be laid into traditional T-Bar systems.

Tegular

Tegular panels are available for a more streamlined appearance.

Security

Steel and aluminum Security panels are available for applications requiring a higher level of damage resistance.

Hinged Panels

For easy access to the space above, modular panels can be hinged, when connected with flexible hosing, to access any portion of the active ceiling space.



Pictured left to right (following page):

- Perforated block pattern modular panels installed in a tegular ceiling 01
- Radiantly activated modular torsion spring ceiling 02
- Perforated block pattern modular panels installed in a standard T-Bar Ceiling 03



Wall Mount Radiant Panels

Wall Mount radiant panels are an excellent way to integrate radiant panels into spaces where overhead panel systems are not practical, or when panels are chosen to be design elements in a space:

Bullnose

These panels are suitable in applications where the panels become design elements in the space.

Corner

Less of an architectural statement than the bullnose panels, Corner panels may be used in applications where design conditions require panels to appear more subtle.

Gym Panel (4" or 6")

Gym Panels are available in 4" widths for applications requiring a slimmer, more compact appearance, and 6" widths for applications where water lines are being run behind the panels. Panels have been designed to withstand most impacts, and streamlined to prevent objects from getting lodged on top of the panels.

Surface Mount Radiant Panels

While radiant panels are typically mounted in lay-in ceiling types, both linear and modular panels can be mounted to ceiling and wall surfaces for aesthetic or practical reasons:

Bullnose

Bullnose Panels may be mounted virtually anywhere such as interior corridors or walkways, or mounted along the perimeter of a room.

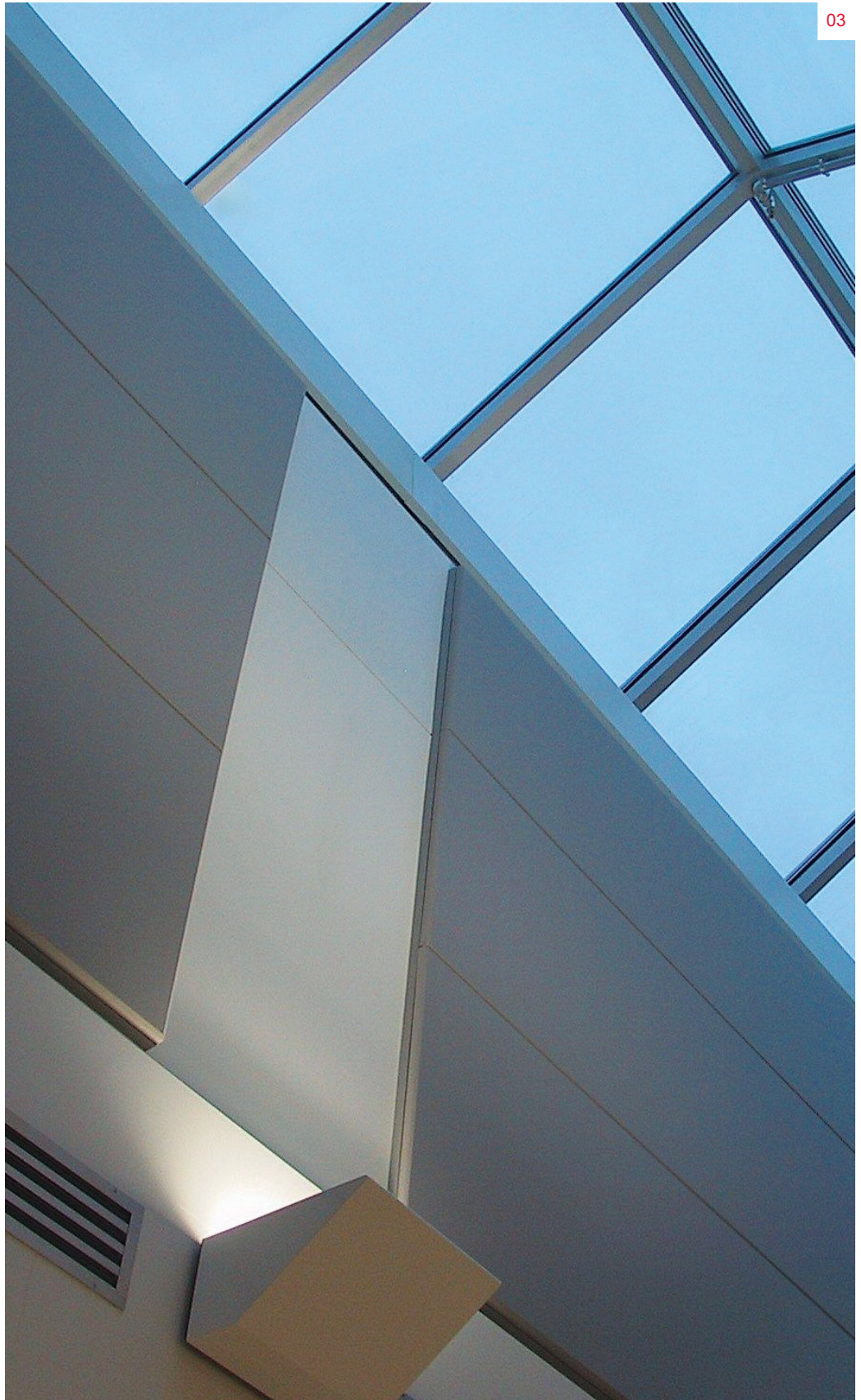
Corner

Corner Interior panels can be used to showcase the panel as an architectural element while corner exterior panels can disguise radiant panels as a subtle architectural element.

Pictured left to right (following page):

- Laboratory ceiling or wall surface mount panels for precise temperature control of the space 01
- Wall mounted panels are available in a variety of sizes to meet the demands of the space 02
- Surface mounted interior panels are an excellent way to transform radiant panels into an architectural element 03





Free Hung “Cloud” Radiant Panels

Free hung radiant panels are an excellent way to integrate radiant panels into building architecture, particularly in open ceiling spaces (converted warehouses, schools, etc.), or in spaces where the ceilings would be otherwise too high for radiation to be an effective method of heating and cooling:

Turn Up

Turn up panels are the most common free-hung panels, with a similar construction to ceiling mounted panels. Mounting can be either interior or exterior.

Bullnose (2” or 4”)

Bullnose free hung panels give a softer appearance than turn-up panels and mounting can be either interior or exterior.

Corner Wall

Free hung panels can be used against a wall, particularly when the ceiling is too high for surface.

Bullnose Wall

The bullnose design can be used in exterior mounting applications.



Pictured left to right (following page):

- Free-hang panels integrated in a space with high ceilings 01
- Free hang bullnose panels are available in both 2” and 4” heights 02
- Free Hang panels are showcased as an architectural feature 03



Light Shelf Radiant Panels

Light Shelf Radiant Panels have been designed to reflect lighting deeper into the room, while offering the same energy efficiency benefits of other radiant panels:

Curved

Curved panels are available and are designed according to specific job conditions.

Corner

The most common profile for light shelf panels, the 4" corner shelf profile fits seamlessly with many building designs.

Bullnose

4" Bullnose shelf profiles are available as an alternative to corner panels for a different appearance.

Wall or Window Mullion Mount

Panels may be mounted directly against interior or exterior walls or against window mullions.

Activated Top

The activated top option adds capacity to the system and would be specified to increase the line of radiant sight to the upper area of a space.



Pictured left to right (following page):

Tapered, corner, window mullion mount 01

Straight, corner, window mullion mount 02

Straight, corner, window mullion mount 03



01



02



03

Architectural Chilled Sails

Chilled Sails are suitable for a variety of applications, including office boardrooms, retail spaces, auditoriums, or any spaces requiring higher cooling capacity than with panels.

Chilled Sails may be used as architectural elements and integrated into a variety of ceiling designs to provide a unique design feature in a space



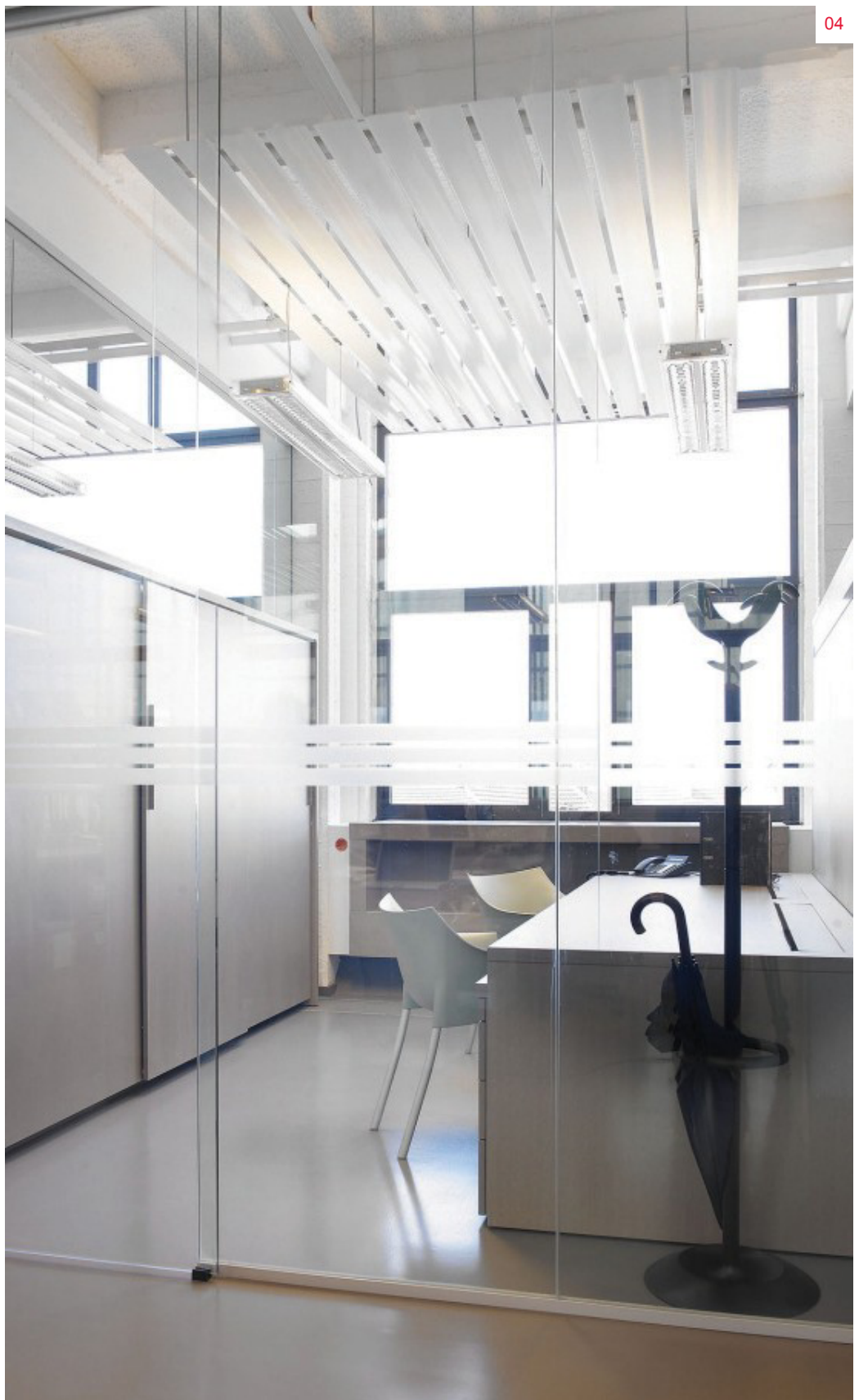
Pictured left to right (above and following page):

Chilled sails form a striking architectural element to this modern boardroom 01

Free hanging linear chilled sail 02

Chilled sails can be mitered or shaped, significantly contributing to the architectural design of a project 03

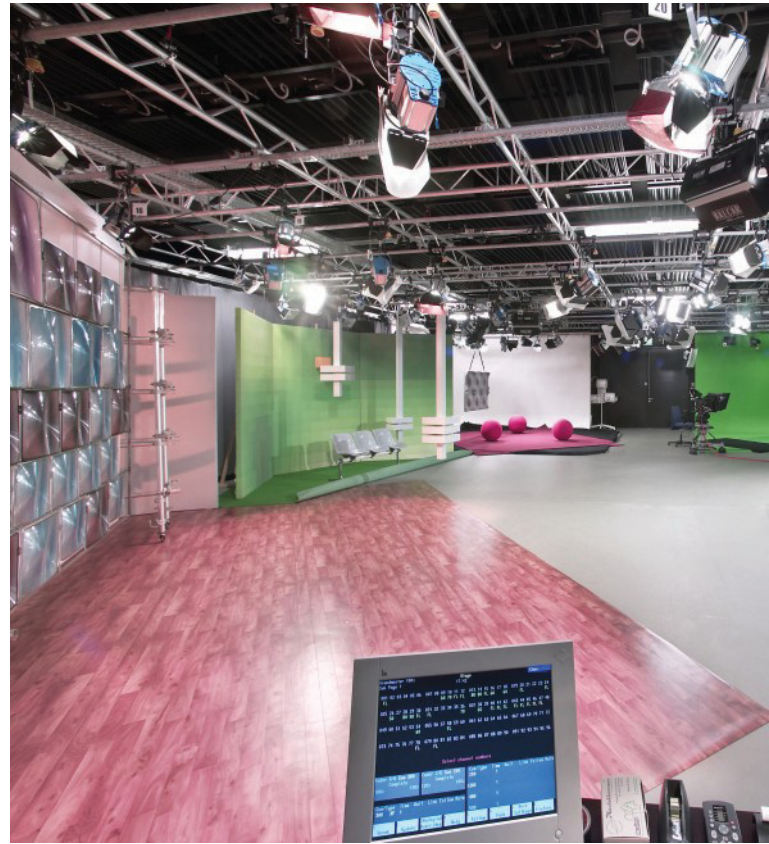
Chilled sails in the free hanging cloud configuration add architectural appeal to this office while directly conditioning the occupant. 04



Concealed Chilled Sails

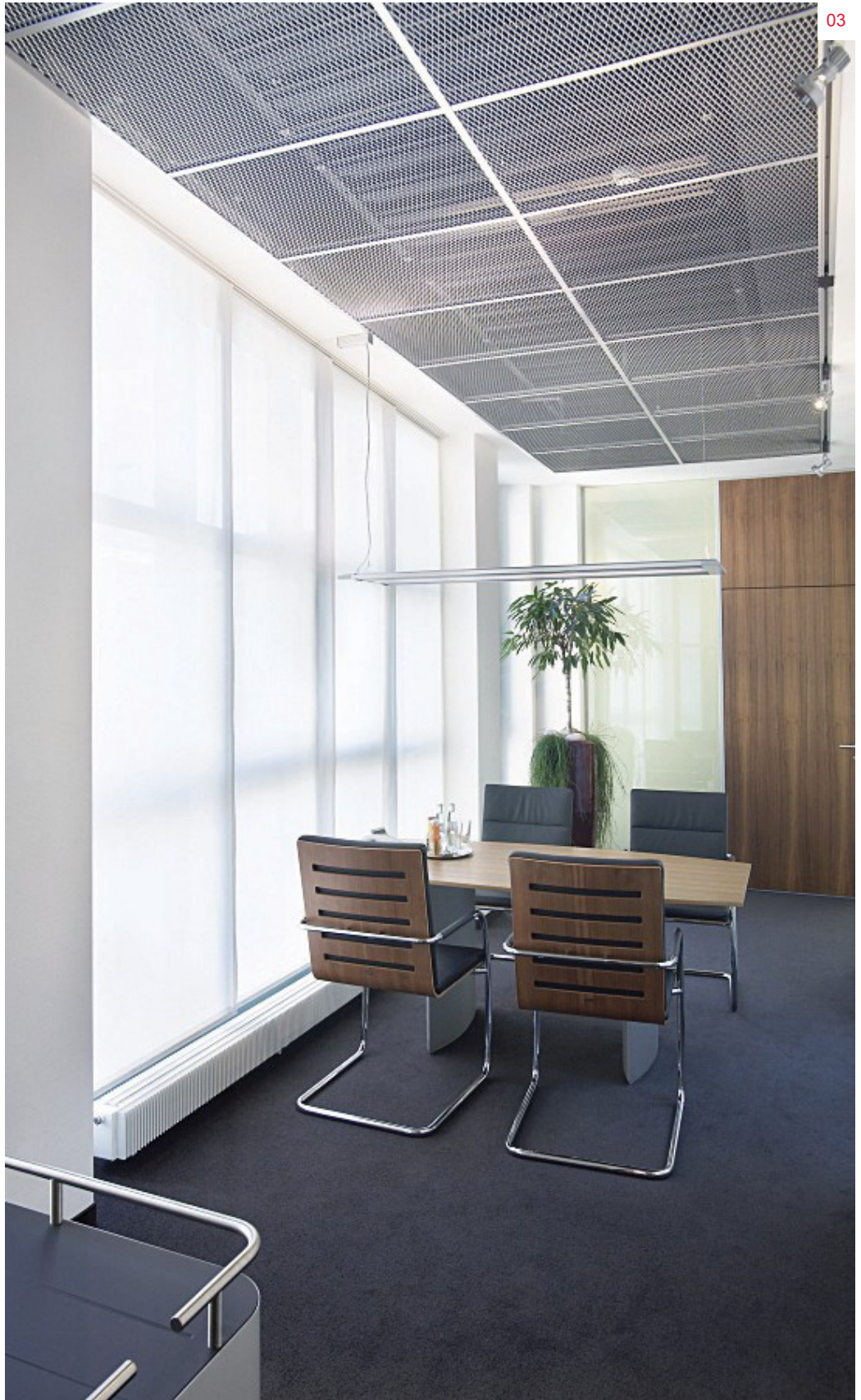
Chilled Sails are suitable for a variety of applications, including office boardrooms, retail spaces, auditoriums, or any spaces requiring higher cooling capacity than panels.

Chilled sails may be installed above other ceiling systems to be either completely hidden from view, or partially visible.



Pictured left to right (following page):

- Concealed chilled sails are utilized in this TV studio to help satisfy heat from the high lighting loads 01
- Chilled sails provide additional cooling capacity in this theatre while blending into the ceiling 02
- Concealed chilled sails are partially visible behind the perforated ceiling in this office building 03



Finish Options

Twa can provide a variety of finish options to meet the architectural requirements of the space, including castellated, smooth, and continuous or block perforation. In addition, we can offer silk screening to match a variety of ceiling patterns and colours:

Castellated Finish

A castellated finish offers added dimensions and architectural appeal to the panels.

Smooth Finish

A smooth finish allows the panel to blend seamlessly into a space.

Smooth Perforated Block

A perforated finish has the advantage of allowing for sound attenuation used in conjunction with acoustical insulation behind the panel.

Smooth Perforated Continuous

Perforation can be block or continuous depending on architectural requirements.

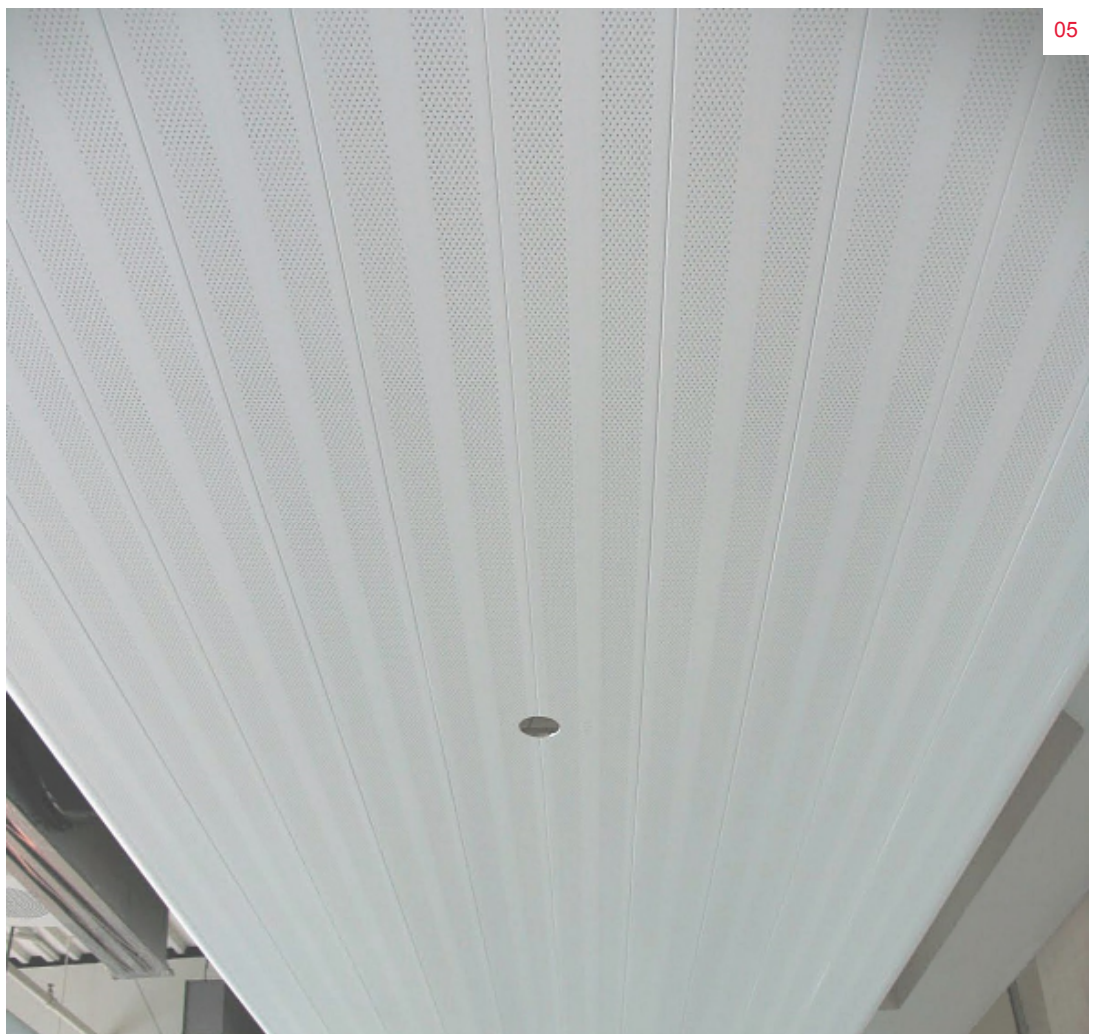
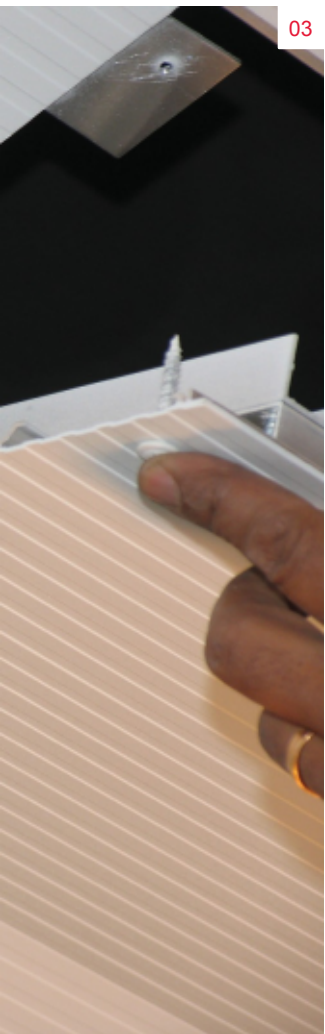
Silk Screen Finish

Silk screening can be used to closely mimic many ceiling patterns and colours.



Pictured left to right (above and following page):

- Free hung panel with castellated finish 01
- Custom painted tegular modular panels with perforated block finish 02
- Integrated access panel allows for convenient access without affecting the design of the space 03
- Linear panels with smooth finish and integrated lights 04
- Free hang linear panels with integrated sprinklers and a continuous perforation finish 05





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