



gcp

applied technologies

GCP for Airports



International Project
Solutions

GCP products have been used on airports around the world for more than a quarter century.

EMEAI	
Abu Dhabi (ADIA) Airport	Abu Dhabi, UAE
Charles De Gaulle Airport	Paris, France
Cork Airport	Cork, Ireland
Doha Airport	Doha, Qatar
Dubai Airport	Dubai, UAE
Dublin Airport	Dublin, Ireland
Edinburgh Airport	Edinburgh, UK
Gatwick Airport	London, UK
Heathrow Airport	London, UK
Hyeres Airport	Toulon, France
Kolkata Airport	Kolkata, India
Lesquin Airport	Lille, France
Malpensa Airport	Milan, Italy
Muscat Airport	Muscat, Oman
Satolas Airport	Lyon, France
Stansted Airport	London, UK
Zaventem Airport	Brussels, Belgium

AMERICAS	
Baltimore/ Washington Airport	Baltimore, MD
Charlotte Douglas Airport	Charlotte, NC
Denver Airport	Denver, CO
Detroit Metropolitan Wayne County Airport	Detroit, MI
Fort Lauderdale- Hollywood Airport	Fort Lauderdale, FL
Hartsfield-Jackson Airport	Atlanta, GA
Honolulu Airport	Honolulu, HI
John F. Kennedy Airport	New York, NY
John Wayne Airport	Santa Ana, CA
Key West Airport	Key West, FL
Lambert - St.Louis Airport	St Louis, MO
Logan Airport	Boston, MA
Los Angeles Airport	Los Angeles, CA
McCarran Airport	Las Vegas, NV
Miami Airport	Miami, FL
Mineta San Jose Airport	San Jose, CA
Minneapolis/Saint Paul Airport	Minneapolis, MI
Newark Liberty Airport	Newark, NJ
Oakland Airport	Oakland, CA
O'Hare Airport	Chicago, IL
Ontario Airport	Ontario, CA
Orlando Airport	Orlando, FL
Panama City-Bay County Airport	Panama City, FL
Pensacola Regional Airport	Pensacola, FL
Pierre Elliott Trudeau Airport	Montreal, Canada
Pittsburgh Airport	Pittsburgh, PA
Raleigh-Durham Airport	Morrisville, NC
Ronald Reagan Washington National Airport	Washington, DC
Sacramento Airport	Sacramento, CA
Salt Lake City Airport	Salt Lake City, UT
San Antonio Airport	San Antonio, TX
San Francisco Airport	San Francisco, CA
Savannah/ Hilton Head Airport	Savannah, GA
Sea-Tac Airport	Seattle, WA
Southwest Florida Airport	Fort Myers, FL
Stapleton Airport	Denver, CO
Tijuana Airport	Tijuana, Mexico
Washington Dulles Airport	Chantilly, VA
West Palm Beach Airport	West Palm Beach, FL

ASIA PACIFIC	
Asiana Cargo Terminal	Incheon, South Korea
Brisbane Airport	Brisbane, Australia
Cathay Pacific Headquarters	Hong Kong, China
Changi Airport	Singapore
Chiang Kai-Shek Airport	Taipei, Taiwan
Dragon Air Headquarters	Hong Kong, China
Hong Kong International Airport	Hong Kong, China
Incheon Airport	Incheon, South Korea
KAL Cargo Terminal	Incheon, South Korea
Ninoy Aquino Airport	Manila, Philippines
Savarnabhumi Airport	Bangkok, Thailand
Soejkarno-Hatta Airport	Jakarta, Indonesia
TaeGu Airport	TaeGu, South Korea
Wuxi Shuofang Airport	Wuxi, China

“Spirit of place! It is for this we travel.”

–Alice Meynell, English poet

GCP Capabilities

When it comes to air travel, two words come to mind – safety and performance. The same values hold true for aviation related structures. Moisture intrusion, structural & aesthetic deficiencies in concrete or inconsistencies in the fire protection can result in significant damage to the structure, high replacement costs and lost revenue. This is where GCP Advanced Technologies can help.

GCP offers a wide range of innovative products and fit for purpose solutions for all areas of the airport complex – including tunnels, ramps, runways, parking structures, terminal buildings, etc. For almost 50 years, owners, architects, engineers and contractors have looked to GCP to provide the right solutions for their landmark airport projects. GCP combines historical performance, advanced technology and unparalleled support to furnish the correct solutions for its customers’ needs.

Working on projects across borders and continents has become a common and necessary practice in today’s environment. GCP has a global team committed to ensure international projects run smoothly and get the full support and coordination from the conception of the specification to its execution. We have the broad technology portfolio and the expertise to bridge differences in construction practices, regulatory requirements, and cultures and are ready to provide you with value-added solutions.



1 Washington Dulles Airport (IAD) | Chantilly, VA
 2 Dubai Airport (DXB) | Dubai, UAE
 3 Heathrow Airport (LHR) | London, UK

4 Hong Kong Int'l Airport (HKG) | Hong Kong, China
 5 Changi Airport (SIN) | Singapore
 6 Charles De Gaulle Airport (CDG) | Paris, France

7 Wuxi Shuofang Airport (WUX) | Wuxi, China
 8 Denver Airport (DEN) | Denver, USA
 9 Honolulu Airport (HNL) | Honolulu, HI

10 John F. Kennedy Airport (JFK) | New York, NY
 11 Los Angeles Airport (LAX) | Los Angeles, CA
 12 San Francisco Airport (SFO) | San Francisco, CA

GCP Brands are Globally Recognized



Application Areas

Substructure:

Many essential operations of a modern airport take place below ground, such as baggage handling, access and service tunnels, passenger transfer tunnels, mechanical systems operation and storage. All require dry environments to ensure continued operations and safety. GCP's fullyadhered waterproofing membranes provide maximum protection against water pressure, ground settlement and contaminants (including de-icing fluids, chlorides, sulfates, radon, methane, etc.)

Elevated Deck/Green Roof:

Water intrusion into occupied space from the roof /plaza /terrace area of structures often results in substantial remedial costs and in the inability to use critical areas of the airport over extended periods of time. This negatively impacts the airport revenue, operations and security. For such leakprone areas GCP's sheet and fluid-applied options install quickly and offer the owner the highest level of protection against the elements.

Engineered Façade:

GCP's full portfolio of permeable and impermeable, sheet and fluid-applied air barrier membranes bond to the structure and seal around fasteners offering a premium level of protection against moisture intrusion and possible damage to the interior environment. By reducing exterior air infiltration, air barriers help increase the energy efficiency of the structure.

Sloped Roof:

GCP roofing underlayments have been used globally under some of the most complex roof designs, under variety of roof coverings and in diverse and extreme climatic conditions. While water can often pass the metal, tile or stone roof, it cannot easily get past the GCP fully-bonded underlayment. GCP membranes protect against leaks, caused by wind driven rain, snow and ice melts, extending the life of the structure.

Structural Concrete:

GCP offers a wide variety of admixtures and fibers to meet design and construction requirements. Corrosion inhibitors cost-effectively protect reinforcement in airport parking garages and elevated roadways. Cracking in floor slabs in baggage handling area are mitigated through the use of synthetic macro fibers and shrinkage reducing admixtures. Retarders and accelerators are employed routinely to accommodate temperature extremes and meet airport construction schedules for taxiways and landing strips.

Architectural Concrete:

GCP's integral color and surface retarders may be combined to create architectural precast panels, precast/prestressed elements, and decorative concrete pedestrian areas. Designers use contrasting pavement finishes to help with zoning and direction finding.

Structural Steel Fire Protection:

GCP's cementitious spray-applied fireproofing has been a global standard for almost half a century and protects structural steel from the effects of fire. Wide selections of densities are available accommodating both interior and exterior conditions throughout the structure.

GCP technical experts can assist throughout your project delivery process

- Recommend the optimal building envelope solution for your project location.
- Work internationally with the project team throughout the entire construction process.
- Provide jobsite expertise and support.
- Facilitate global projects in all major construction segments.

GCP supplies products to more than 120 countries worldwide, through its plants and facilities in more than 40 countries, supported by a team of almost 6,000 people.

Key regional offices include:

UK (London), France (Paris), Italy (Milan), Belgium (Brussels), Poland (Warsaw), Turkey (Istanbul), U.A.E. (Dubai), Saudi Arabia (Dammam), India (Delhi), China (Shanghai, Hong Kong), Singapore, South Korea (Seoul), Australia (Sydney), USA (Boston, Chicago, San Francisco), Brazil (Sao Paulo) and many more locations globally.

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