

APS

Airport Protection Systems

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- **Background**

For more than 30 years APS has been providing airports with innovative designs to improve safety from aircraft exhaust. By focusing exclusively on jet blast protection and ground runup noise mitigation, APS has become a recognized industry leader in this highly specialized field.

- **Ground Run-Up Enclosures**

Routine maintenance to an aircraft can require testing the engine. These “ground run-ups”, which normally occur at night when aircraft are available for maintenance, are often a major source of noise complaints near airports. A Ground Run-Up Enclosure is a facility designed to absorb a large portion of the sound generated during an engine run. APS offers several different GRE designs and configurations depending on the acoustic requirement as well as meteorological conditions.

In recent years APS has developed a GRE that is usable in a wide variety of challenging wind conditions. The most recent installation of this technology was for A380 engine tests at Airbus Industrie’s facility in Toulouse, France. The circular shape of this GRE allows the aircraft to runup in two different orientations depending on the wind conditions.



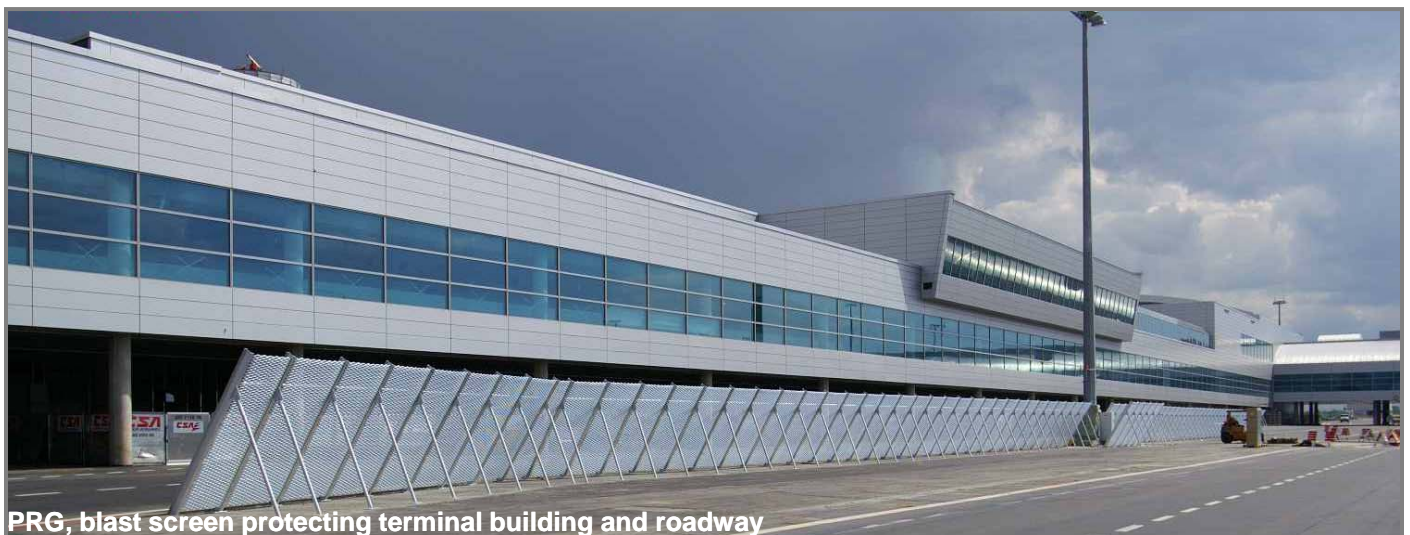
TOU, circular GRE



CDG, blast deflector for engine tests

- **Jet Blast Deflectors & Screens**

Terminals, structures, roads and other aircraft require often protection from maneuvering aircraft. The APS line of jet blast deflectors and screens provides an attractive solution that is both aesthetically pleasing and highly functional. Various models are available depending on what requires protection, available space, the aircraft types using the area and exhaust velocities. Models are available for general aviation piston aircraft, commuter turboprops, regional jets, wide body commercial aircraft and afterburner military aircraft with exhaust temperatures up to 400° C.



PRG, blast screen protecting terminal building and roadway

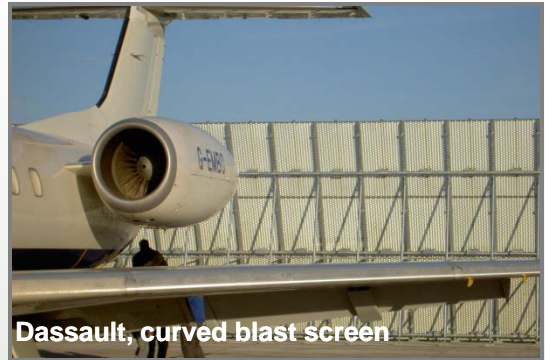
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Ground Runup Enclosures



BSL, 3-sided GRE

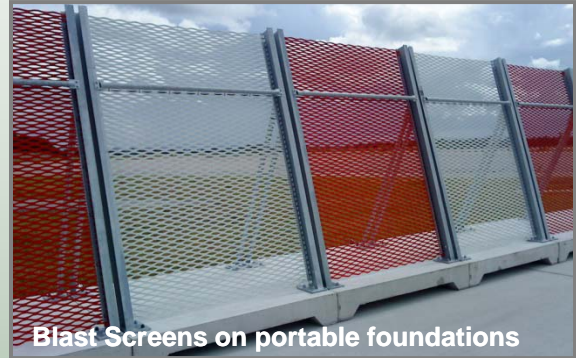
Jet Blast Deflectors / Screens



Dassault, curved blast screen



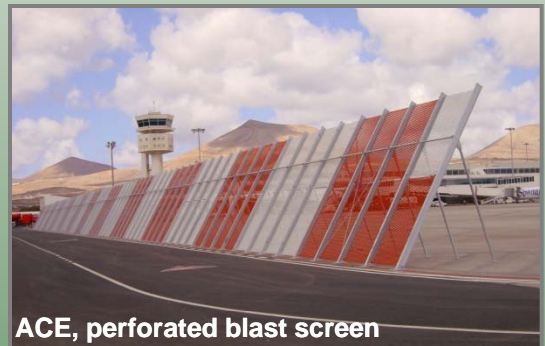
GKE, 4-sided GRE



Blast Screens on portable foundations



DTM, circular GRE with turntable



ACE, perforated blast screen



TOU, circular GRE for A380 engine tests in various orientations