

# Bird Strike Solutions

**Beneath The Surface: A Safer Stormwater Strategy for Airports**

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Take stormwater underground with StormTech chambers. Detention ponds can attract wildlife that can interfere with aircraft and airport operations.



# StormTech offers a more economical and ecological solution

## The high cost of ineffective stormwater management

It is reported that bird strikes cause annual economic costs of \$1.2 billion to commercial aircraft worldwide (Allan and Alex, 2001). According to the Bird Strike Committee USA (BSC USA, 2016), these collisions can put the life of the aircraft crew and its passengers at risk during flight, a fact corroborated by Thorpe (2016), who reports that worldwide more than 450 people have been killed and more than 500 civilian and military aircraft destroyed as a result of these types of collisions.

Among the wide variety of airport wildlife management processes used to address the threat, removing the appeal of potential surface water habitat has proven to be an effective – and humane – approach to mitigating risks to aviation from bird strikes.

The fact that the U.S. Transportation Research Board commissioned a report on the issue (2008) suggests the importance of effective airport stormwater management as an essential element of wildlife collision risk mitigation.



## StormTech: The Economical, ECO-Logical Solution

With safety, durability and longevity in mind, StormTech chambers are engineered and built to conform to ASTM F2418, ASTM F2922 and ASTM F2787 standards. They also exceed AASHTO 12.12 LRFD requirements for both live and dead loads that require a 2:1 safety factor.

When built for airfield applications, the polyethylene or polypropylene polymer materials formulated for StormTech chamber systems are also resistant to the effects of chemicals used in aircraft deicing applications.

Manufactured for remarkable durability and longevity, and providing a compact physical footprint and easier installation, StormTech stormwater management systems offer a solution that is both more economical and ecological.

ADS products have been included in 200+ airports to help place stormwater underground to eliminate open retention and detention ponds, which attract water fowl to settle close to active runways.

## Put your pond UNDERGROUND



## Bird Strikes in the News

**September 2023:** A plane crashed at a Douglas County golf course after striking at least one bird during take off Saturday morning, according to the Federal Aviation Administration (FAA). The plane, a single-engine Cessna 172S, had just taken off from Centennial Airport, Colorado at 6:15 a.m. The small plane ended up on its roof at Meridian Golf Club.

**August 2023:** A bird had been sucked into an engine, with an aviation source confirming that a recent bird strike prompted Air New Zealand to strip and rebuild the engine. The airline did not comment on the incident.

**July 2023:** A T-38C Talon training jet crashed in eastern Mississippi last November after a bird collided with its windshield — shattering the canopy, breaking its engines and prompting the lone pilot to eject, an Air Force investigation has concluded. The pilot, an instructor with the 49th Fighter Training Squadron at Mississippi's Columbus Air Force Base, sustained minor injuries.

**June 2023:** Virgin Islands Port Authority announced Sunday that two of five passengers on board a Cape Air flight en route to King Airport from the British Virgin Islands were injured after the aircraft experienced an in-flight bird strike near Water Island.

**March 2023:** In 2021 alone, birdstrikes resulted in \$328 million in losses and 140,000 hours of aircraft downtime. Bird strikes, which occur when a bird collides with an aircraft, can have serious consequences, including damage to the aircraft, injuries to passengers and crew, and in some cases, fatalities.





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