

## CASE STUDY

# ACOUSTISORB® NOISE CONTROL SOLUTION SAVES NORTH STAR HOLIDAY PARK FROM CLOSURE



## Background

When North Star Holiday Park faced the risk of being shut down after a considerable court-ordered noise reduction, they turned to the industry leaders of noise abatement solutions to design a bespoke, highly acoustic noise control solution.

Following extensive complaints from surrounding residents, North Star Holiday Park was issued a court-ordered noise reduction to ensure the continued legal trading of the park.

They were instructed to erect a 2.8m acoustic fence along a portion of the perimeter boundary, as well as an acoustic barrier for the upper level of the new waterslide. On top of strict acoustic attenuation criteria, they only had a very tight timeframe to achieve the required noise reduction before the park reopened after their winter closure.

## Solution

To achieve the noise reduction specified, a reflective noise barrier simply would not suffice. Therefore, a high performance AcoustiSorb acoustic wall was used for the perimeter noise barriers and retrofitted to the slide structure. Utilising the revolutionary sound absorption panels ensured they comfortably met the strict design criteria of the court order, whilst also delivering a strong, durable, lightweight wall solution.

The waterslide wall posed specific engineering challenges; ModularWalls worked closely with Swimplex Aquatics to design a safely secured Acoustisorb privacy panel, with fall protection bracing. The final boundary and waterslide wall solution measured 47m long and 2.8m high, as outlined within strict court design ruling. An additional AcoustiMax privacy wall and gate was also installed along the amenity block.

Working closely with landscape architect Duncan Gibbs and architect Pat Twohill, the final design included a hand-painted finish that harmonised with the playful, tropical atmosphere of the park and enhanced the water play experience. Additional environmental criteria were also strictly followed, including the temporary removal and safe relocation of established plants.

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