

SHOALHAVEN REGION NSW

CASE STUDY [1]:

Photo 1: A bridge near the Vincentia boat ramp built by Wardrope & Carroll using H30 (30mm thick) Envirowalk Sand Yellow Mini-Mesh Premium grade type I (Iso) resin with grit anti-slip surface. More than 10 years after install and the Mini-Mesh still looks great and retains the P5 anti-slip rating.

CASE STUDY [2]:

Photos 2 & 3: The Vincentia Elevated walkway where the initial bulk of the FRP products were supplied by a different Australian supplier: This structure is an excellent example of why Buyers should take care with from whom they source their materials: The problems encountered were: [a] The initial supplier ignored original specifications for the structural items to be coated with polyurethane or similar protective coating. This has resulted in [i] early deterioration of the structural members where small spiral type cracks have appeared along the corners of the SHS (refer photos 4 & 5). [ii] Several sections have been eroded by the elements to the degree where the glass fibres beneath the resin are now exposed (Refer photo 6) [iii] unwanted fading (This can be noted especially in photo 2 where the correctly coated supports supplied in the latter stages by Envirowalk are significantly darker than the original - These photos were taken some 3 years after construction.)

Photo 7 reveals delamination blisters on some of the structural channel initially supplied by the original supplier.

Photos 8 & 9 indicate low quality production methods where the surface veil has been distorted during the molding process and even folded back on itself. The project manager was so frustrated by the low quality product and poor service from the original supplier that he contacted Envirowalk and ordered another 12 panels of the Sand Yellow Mini-Mesh, 495 lineal metres of the Structural Channel and 30 metres of the SHS - all of which were supplied with the specified protective PU coating and all of which have remained in pristine condition with photos taken more than 5 years after install. The photos clearly show the difference.

CASE STUDY [3]:

LAKE CONJOLA NSW:

Photos 10, 11 & 12 next page

A 410 metre elevated boardwalk where all structural members, Envirowalk Mini-Mesh & H40 Mini-Mesh EnviroTreads were supplied by Envirowalk as per the full specifications with protective PU coating on all structural and handrail members. All Mini-Mesh and EnviroTreads manufactured only with pure, unblended, premium grade Type I (Iso) resin with a fine grit P5 anti-slip surface. NB: Photos 10, 11 & 12 were taken some 5 years after install and there has been no deterioration of either the structural members or the decking.



Photos 4 & 5 below reveal significant signs of cracking & deterioration

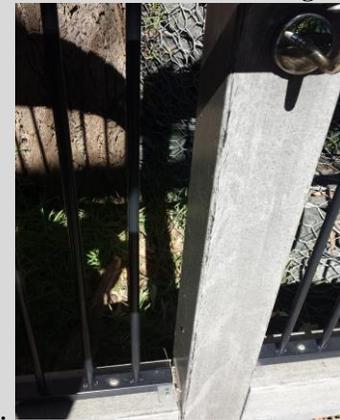
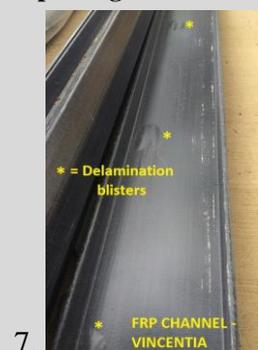


Photo 6 below showing where deterioration has exposed glass fibres.





12.



10.



11.

For CASE STUDIES 1 & 2 the main challenges had already been resolved and the only challenge remaining for **Envirowalk** – especially for CASE STUDY 2 was to deliver all items urgently and in accordance with the correct original material specifications and the highest quality **Envirowalk** was renowned for.

For CASE STUDY 3 the contractor called on **Envirowalk** to assist with minor redesign to allow him to drive the 125x6.4 SHS into the sandy soil of the hills riddled with the roots of trees and shrubs. Consultations were required to redesign part of the Bearer structure: Once amendments had been finalized Envirowalk was able to deliver all items according to schedule and quality requirements.

Thanks to the adherence to providing the structural members and handrail with a protective coating of PH the complete structure was still in pristine condition when I visited some 5 years later – even in those areas where the structure was completely open to the abrasive winds and strong UV of the full coastal environment. It certainly does create a sense of satisfaction and pride when you see the durability of the products you supply to customers who trust and depend on you.

Envirowalk PRODUCTS USED:

CASE STUDY 1: H30 (30mm thick) Mini-EnviroMesh Type I resin, 10g UV9, ATH filler, E-Glass fibres with fine carborundum barefoot friendly grit anti-slip surface.

CASE STUDIES 2 & 3: H30 (30mm thick) Mini-EnviroMesh Type I resin, 10g UV9, ATH filler, E-Glass fibres with fine carborundum barefoot friendly grit anti-slip surface.

254x70x12.7 EnviroStructural Pultruded FRP Channel VE resin with PU protective coating (As seen by the significantly darker support members in Photo 2).

EnviroStructural Pultruded 125x6.4 SHS Type VE with ATH filler, E-Glass fibres with PU protective coating

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