

Murrawal Road Footpath: The *PaveX™* Trial without Error

From the very outset, a key component of the design and development process for Danley's new *PaveX™* Residential Pavement Jointing System was collaboration with specifying councils and concrete contractors. Why? When it comes to ensuring that a newly designed concept addresses the everyday challenges of pavement design and construction, it makes sense to work alongside the experts. Equally important is the collaboration and support of councils and contractors in the final phase of new product development – validation and testing of the product in the “real world”.

In the months leading up to the market launch of Danley™ *PaveX™* in early 2020, the development team at ramsetreid™ exhibited their wares at a series of IPWEA and MWOA events across Australia. The aim? To engage the support from leading councils in both the specification of, and product trialling of *PaveX™*. At the IPWEA (NSW) event in the Hunter Valley in November 2019, Stuart Baverstock - Unit Manager Roads Construction & Project Management at the Central Coast Council (CCC) spotted the Danley™ team and was intrigued with the features and benefits the new *PaveX™* system offers. Within a matter of a few short weeks, the CCC took delivery of 100mm *PaveX™* Expanda™ and 38mm *PaveX™* Crack-A-Joint™ for trial on the Murrawal Road Wyongah Footpath Project.



So why was *PaveX™* in the mix for Murrawal Road? The 200m long trial section of pavement measuring 1.5m wide and 100mm thick was specified with a Fibercon™ mix design utilising eMesh™ 100% Recycled Plastic Fibres (4kg/m3) in 25 MPa concrete. As a pioneer in environmentally sustainable design, the CCC worked with Hanson™ to further reduce its carbon footprint, developing a unique concrete mix design with 30% of the sand manufactured from recycled glass. Critical to the sustainability design criteria for Murrawal Road was eliminating the use of traditional mesh reinforcement in preference to Fibercon™ eMesh™ and mitigating the impact of corrosion related concrete spalling and joint failure. At the expansion joints and weakened plane joints, *PaveX™* fit the bill with its unique, recyclable uPVC profiles providing a corrosion-free, UV stable system which complies with the requirements of Australian Standard AS3727.1:2016.

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Project Information

Project:	Murrawal Road Footpath
Location:	Wyongah, NSW
Trial Scope:	200 metres long 1.5 metres Wide 100mm Depth
Council:	Central Coast Council
Concrete Mix Design:	Fibercon™ eMesh™
Concrete Supply:	Hanson™ 25 MPa, 30% Glass Replacement
Finish Date:	March 2020
Product Used:	Danley™ <i>PaveX™</i> Expanda™ 100mm Kit Danley™ <i>PaveX™</i> Crack-A-Joint™ 38mm





**Corrosion-Free
Joint System**



**Complies with the
requirements of
AS 3727.1:2016**

PAVE^X
Expanda™

So, how did PaveX™ perform? In a first for New South Wales, the trial of PaveX™ on the Murrawal Road project was deemed an outstanding success. Bradley Barrett, (Engineering - Construction Delivery North) at CCC explains that:

“It is my opinion, that [the PaveX™] expansion joint product is a superior product on the market, and we’ll be looking to introduce the product once it becomes accessible. The [load carrying] rubber strip along the top allows the crews to get a nicer finish when troweling and the legs on the bottom provide greater stability. These aspects all improve the quality of the concrete and correct issues we’ve had with competing products”.

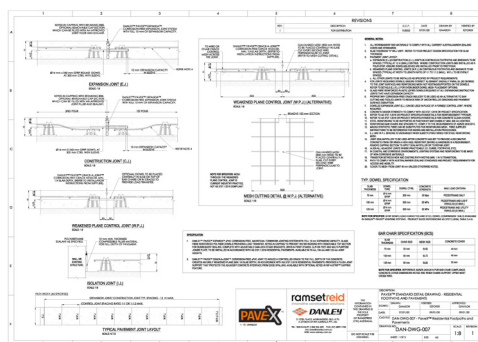
What can’t be understated is the impact that the CCC crew’s positivity had on the result. Keen to embrace the new PaveX™ joint system from the very start, the CCC crew took the time to install the system in accordance to the best-practice recommendations - delivering a concrete finish, that is second to none.

To further support the successful trial of PaveX™ Expanda™ and PaveX™ Crack-A-Joint™, the team at ramsetreid™ have developed a best-in-class Specification Detail (in dwg and pdf formats) to assist councils to update their Residential Pavement Master Specifications.

PaveX™ is now commercially available throughout Australia.



**To learn more
about PaveX™,
scan the QR code
below, or visit us
at danley.com.au**



**For councils:
Update your Master Spec!
Download the PaveX™
Specification Details by
scanning the QR Codes below:**



PDF



DWG

Proudly Partnering with:



www.danley.com.au
sales@danley.com.au
1300 326 539