

Ted's News

May 2017

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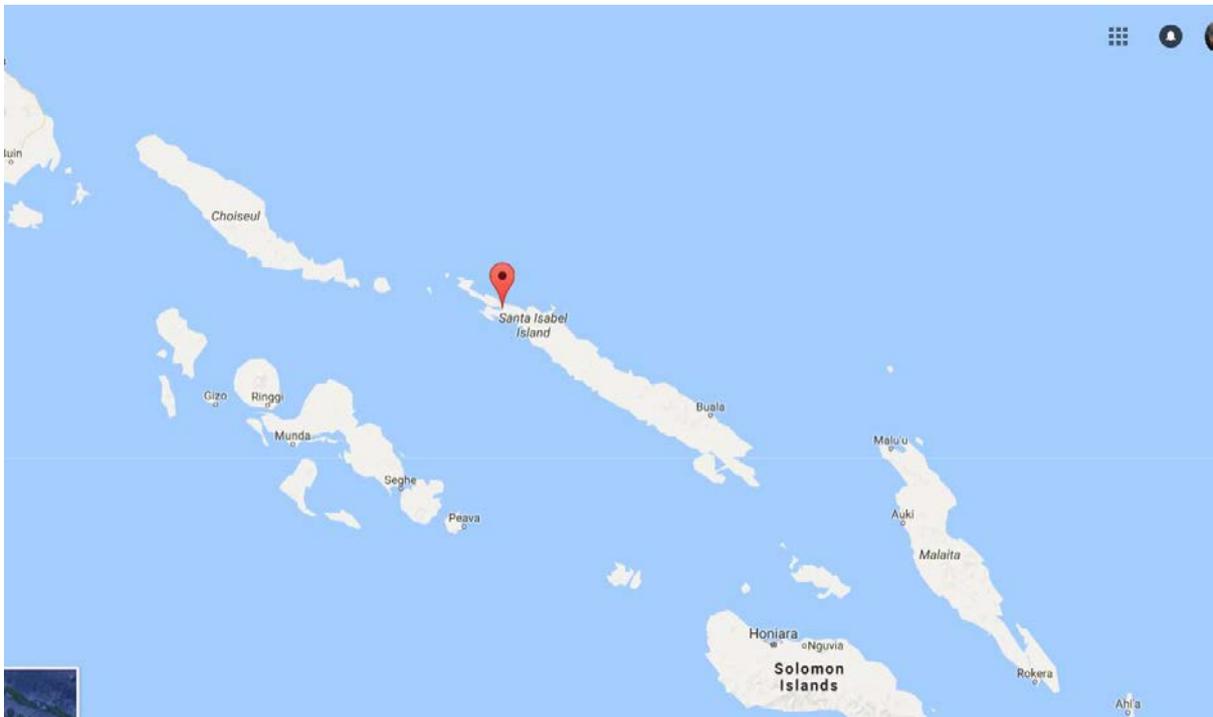
[Everything You need to Know About Timber Joints](#)

[This Timber Library is Cyclone and Earthquake Resistant](#)

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[General layout of the building.](#)

The Longer and More Interesting Baptist Version of the story



Kia is a remote village of about 2500-3000 on the northern tip of Santa Isabel. It is an island of rusted Japanese machine gun nests that overlooked the great World War 2 battle of Guadalcanal. The village has no power apart from some 12 volt solar panels, no motor vehicles nor running water. The village is so remote that It is only serviced fortnightly by a ship from

Honiara. The trip takes anything from 22 to 30 hours, depending on the sea conditions, the number of passengers and the amount of cargo. The school in Kia had 500 students (but really needed to service 1000) from kindergarten to grade 6 but it was barely functioning and in danger of closing completely. As it only operated half a day it could only provide a grade 3 or grade 4 education at best. The island of Santa Isabel has some of the lowest literacy rates in the Solomon Islands.

Three years ago, women and teachers from Kia came on an acapella singing tour to Australia. It was hoped that they might raise funds to support their school. As fate would have it, the large church they were scheduled to sing in at Redcliffe cancelled so, at the last minute, the pastor at the small Deception Bay Baptist let them come to that church instead. That night they just happened to meet my friend Dr. Dan Tingley who thought their singing was heavenly! They shared with him that they had received a container of books from a church school that had closed but as their library was not climate controlled the books will quickly be destroyed. All the other existing buildings were also dilapidated.

Further, apart from the limited education that could be provided, the children had to leave their parents to go to Honiara when they went into grade 7. Unfortunately there was then a significant risk of falling into the sex trafficking industry. (The Solomons are rated as a mid-tiered nation as far as risk.) Dr. Dan suggested they apply to the Tingley Family Foundation board for funding for the library. This project met one of the boards objectives which was, to help prevent child sex trafficking. They applied for funding for a spacious climate controlled library and were approved.

Unfortunately, it then took three years to get government approvals and land title and commitment from the Chiefs in the village of Kia to not convert the building to some other use than education and library. The design was completed by February 2016. From March to October that year it was prefabricated and then assembled then dissembled at the facilities of [Wood Research and Development](#) in Jefferson, Oregon and shipped out in four containers.



When the kit arrived, the large bearers were used as paddle boards and paddled across the water from the ships. It then took 30 villages to carry them up to the top of the hill!!! Under great hardship and tough conditions the large fully contained library was built on a hill top in a very remote jungle location. Work and witness crews from two churches in Oregon and also Deception Bay Baptist Church plus a team of paid professionals from [Timber](#)

[Restoration Services](#) started assembling the library in November 2016. The whole Tingley family went over and Dr. Dan described it as “probably the most interesting

experience of our life as a family.” The building was completed except for few last details in February/March 2017. Opening of this library, with a commercial value of about \$700,000 \$US is July 2017.



Without any extra funding being forthcoming from the Solomon Island Government, the team agreed to supply all the funds necessary to add a year each year to the school, starting this year with grade 7. It will eventually cater from Kindergarten to Grade 12. This means children will no longer will have to go to Honiara so fulfilling the goals of the foundation.



As for the building itself, it is a complete engineered wood building including the structural insulated panels and is believed to be the best Library for children in the Solomons. The Oregon bearers are treated with oil based copper naphthenate, with the treatment done after all cutting and drilling has been done. The

structure has a design life of 100 years in the jungle. The bearers are so large because the design load for a library is very high – books are heavy!

The library is totally self-contained and climate controlled, with a large solar power system. The dehumidifier and AC unit only run for 30 minutes to bring the big cavity down to target RH and temp levels. Included in the fit out were large screen flat TVs, components for teaching, desks chairs for three teachers and benches and tables for 100 students at a time and room for all the books that was contained in one large container. The building is not just designed for library occupancy loads but also for 190 kpm winds making it a safe shelter now for the village (note the concrete

columns). It is also designed to withstand an earthquake up to 7.6 magnitude. An earthquake hit the week after the building was finished with no damage.

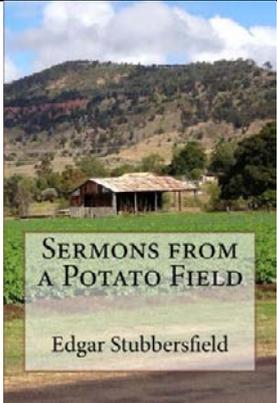
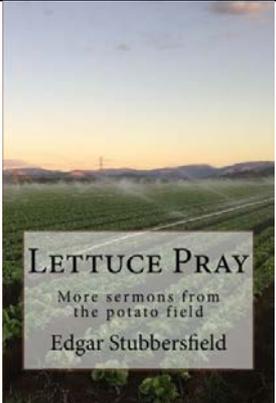
The story is one of courage and commitment from all who contributed. Praise God that he allowed us to be involved. The work has not stopped. There are several smaller construction projects that will be taking place around the island. It is planned to make improvements to elderly housing, the single medical clinic on the island and work to improve the living condition of those will special needs.

Much good has come above because of this building. The seed sown has multiplied many times over already. As Dr. Dan says “Any naysayers will just have to come and help the kids out at the Solomons and see the face of Jesus in every little girl’s face that gets saved from child prostitution.”

Want to be part of future assistance to the school at Kia, you can do this two ways

1. By donating through the [Tingley Family Foundation Kia Project](#)
2. By volunteering to help as they do other projects like a medical clinic.

For my Baptist readers, yes, I have interests outside of timber. You might find these three books of interest, the first two are sermons I and other laymen have preached in our little Baptist church in the middle of a potato field at Tenthill Queensland. The third contains documents I edited that were written by Herman Windolf, the first ordained German Baptist pastor in Queensland. It tells of his journey to Australia by clipper ship in the 1870’s and then his journey from Brisbane to Kalbar and the start of his ministry. For all readers, Baptist to atheist, it is fascinating reading and will give you a newfound respect for our pioneers. The Emigration Museum in Hamburg said “We are working on emigration to Australia at the moment and that is just perfect showing what exactly it was like in those days.”

		
Order Sermons from a Potato Field	Order Lettuce Pray – More Sermons from a Potato field	Order Herman Windolf and the Queensland German Baptists

The opportunities for similar buildings in remote parts of Australia are obvious. Contact Dan Tingley 0467 625 926 or Stephen Richards 0428 983 328 to discuss your needs.

Jack Has a Rant About Dodgy Treatment



Jack's Norton's "rant" below is from the May edition of *Contact*, the Newsletter of the Timber Preservers Association. [Reprinted with permission.] A little about Jack - Jack Norton is a legend among timber preservers. When we Queenslanders had a Timber Utilisation and Marketing Act, Jack was the one who ensured that we did the right thing and would have prosecuted us if we stepped out of line. With nicknames of Captain Chaos and Captain Preservation none of us were game enough to step out of line, besides he was too nice a person to want to upset. Then one of our political masters noticed that there had not been a prosecution under the Act so decided we didn't need its protection. Without Acts (NSW did the same) and policemen, timber treatment standards from some suppliers

have slipped badly. Politicians, and we trust them to run our state and country!



*Images of badly treated sleepers taken from resellers websites, they think they are good **Just a tip, the dark bits are the areas that are treated, should be 80% of the cross section.***

Jack's rant here - It never ceases to amaze me that our industry finds it so hard to comply with treatment specifications – at least for landscaping products. Perhaps we should give up and stop calling palings and landscape sleepers 'preservative treated'.

A couple of weeks ago, my daughter asked for help to level out the ground under her clothes line. Her clothes line is about 4m long and is one of those pull out things rather than a rotator. The plan was to dig into the slope along one length and use the spoil to raise the opposite side. This needed a small retaining wall down one side.

The son in-law and I dutifully headed off to the local hardware house (guess who??) and this is where the rant comes in. After a short lesson in sapwood/heartwood and preservative penetration, we sorted through two packs of landscape sleepers and found two (yes, two) that I thought had a chance of meeting the penetration specifications in the Standard. We needed eight.

I admit that sleepers and palings are low value low cost products, but the punters out there expect them to perform and there are an awful lot of them pouring into the market place. I regularly get queries about the performance of landscape sleepers and part of the advice is that if the wall is more than 1m high then H5 treated sleepers should be used. This is a requirement of the BCA. The only problem with this advice is 'where do you buy H5 sleepers' ????????

I am seeing increasing availability of non-timber sleepers which cost a hell of a lot more than the timber product but are obviously being sold. Otherwise the hardware shop(s) wouldn't stock them. You have to ask why the punters are prepared to pay more and the only reason I can think of is reliability!

As always, I am open to hear from you as to how we might lift our game.

Ted's rant here - While the roundwood market suffered serious decline, the overall market for H3-H5 timber doubled between 2001-2011 and there are many markets, new and traditional, that could open up or return to timber. But if we cant get the basics right the market will collapse just as quickly as it grew. Talk to me about your specifications. Simon T, you need to talk to me.

When is H3 not H3?



The definition of H3 treatment from AS1604.1 is "outside, above ground, subject to periodic moderate wetting and leaching." Suitable applications given in the standard are fascia, pergolas, windows, framing and decking. It was pointed out to me recently that one supplier of H3 LVL says on their literature "*LOSP H3 Not recommended for use in external, exposed applications unless installed with effective moisture protection.*" Compare that with the standard's definition of H2, "Inside, above ground protected from wetting and no leaching." Applications are framing used in dry situations.

Well I suppose I studied too much philosophy where importance is given to the meaning of words but quite frankly, I cannot see too much difference between the suppliers permitted "H3" use and the formal definition of H2.

H3 is H3 but perhaps Jack nailed it on the head in the previous article. Would I use an LVL when very durable hardwoods are readily available? No I wouldn't. Would I trust a treatment certificate? It depends on whose it is. But don't let me discourage you.