



APPLICATION FOR CODE COMPLIANCE CERTIFICATE

(Section 92, Building Act 2004 (Form 6))

Ref: T- Form 6

Version: 3.0

Issued: 21 April 2010

Page 1 of 1

CODE COMPLIANCE APPLICATION FORM

Building Consent Number: 170165 **Issued By:** Rangitikei District Council **Valuation Number:** 1349002100

OWNER

Name of owner: Benson Family Trust
Contact person: Alan Benson
Mailing Address: 48 Wainui Street, RD 11, Wanganui 4581
Street address/registered office:
Landline: 069270791 **Mobile:** 0274452018
Daytime: **After hours:**
Facsimile: **Email Address:** forestview@xtra.co.nz

AGENT

Name of agent: Mike Paul
Contact person: Mike Paul
Mailing Address: 3 Putiki Drive
Street address/registered office:
Landline: 063479842 **Mobile:** 0274420328
Daytime: **After hours:**
Facsimile: **Email Address:** wanganui@totalspan.co.nz
Relationship to owner: Totalspan Steel Buildings

EVIDENCE

A copy of the Certificate of Title, Agreement for Sale and Purchase, Lease agreement and/or other document(s) showing full name of the legal Owner(s) of the building, are attached to the Building Consent for evidence of ownership.

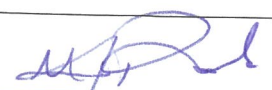
First point of contact for communication(s) with the Council/Building Control Authority: Benson Family Trust 069270791
48 Wainui Street, RD 11, Wanganui 4581 0274452018
forestview@xtra.co.nz

APPLICATION

All building work carried out under the above building consent was completed on: (Please specify date) 20/9/17
The personnel who carried out the building work are as follows: Designer: Spanbuild NZ Ltd PO Box 11013 Sockburn CHRISTCHURCH : 033491286

I request that you issue a Code Compliance Certificate for this work under section 95 of the Building Act 2004.

The code compliance certificate should be sent to: 48 Wainui Street, RD 11, Wanganui 4581

 **SIGNATURE:** Mike Paul **NAME OF SIGNATURE:** 20/9/17 **DATE:**

ATTACHMENTS

The following documents are attached to this application: (if applicable) Certificates from the personnel who carried out the work
Certificates that relate to the energy work

no reply

SPANBILD
DESIGN. MANUFACTURE. BUILD.

Spanbild Holdings Limited
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PO Box 11013, Sockburn, Christchurch 8443
112 Waterloo Road, Hornby, Christchurch, New Zealand
spanbild.com

02 Apr 13

To Whom It May Concern,

Wet Curing as Alternative to Saw Cutting for Totalspan Wanganui

Anecdotally, Totalspan Wanganui has been successfully employing Wet Curing techniques on their Concrete Ground Bearing Slabs for Sheds and Garages for a number of years. They provide, I believe, Flooded Curing, by damming up the edges of the Slab, most likely 50mm of dammed height, with crusher dust or equivalent, immediately after the Slab goes "off" and keeping a hose running to maintain this state for at least seven days.

I can confirm anecdotally that when the Wet Curing (Flooded Curing) technique is employed for Slabs for a period of 7 days or more that Early Thermal Shrinkage Cracking is greatly inhibited and seldom occurs. I can also anecdotally confirm that even when Saw Cuts are introduced this does not ensure that the concrete will "crack" at the Saw Cut locations.

If Saw Cuts are to be introduced into a Slab they should be introduced before 24 hours after pouring. "Early Thermal" shrinkage occurs in the first 48 hours after curing. "Late life" shrinkage occurs up to the achievement of 28 day Concrete Compressive Strength. Some additional shrinkage occurs after this but the majority has occurred by the end of the first month.

Additionally a Slab which is not Saw Cut and is Wet Cured is much more likely not to have cracked which means that it has a higher Tensile Capacity than a cracked or "Saw Cut" Slab.

Finally the practice of Saw Cutting Slabs often involves cutting every second strand perpendicular to the Saw Cut which weakens the Slab in lateral earthquake shaking as verified in the recent Canterbury Earthquake sequence.

I advise that mesh should not be "cut" (every second strand) along Saw Cuts and that Saw Cuts should be avoided where Wet (Flooded) Curing is provided for 7 days or more. Only if Wet (Flooded) Curing is not provided are Saw Cuts permissible to endeavour to control the locations where the Slab may crack plastically.

Yours Faithfully,



Andrew J Horton BE(Hons), MIPENZ(Structural), CPEng, IntPE(NZ)

Structural Engineering Consultant

DDI 03 349 1267 M 027 271 9101 F 03 349 1283

E andrew.horton@spanbild.co.nz W www.spanbild.com

Associated brands





TO: Various Building Consent Authorities
RE: **Compacted Hardfill**
AT: Various Site Addresses within Totalspan Wanganui's jurisdiction
DATE: Mon 11 Sep 17

To Whom It May Concern,

For Standard IL1 (Non-habitable, Un-lined) TS12000 Portal Buildings, Heritage Barn Buildings & Flat Roof Farm Buildings engineered by Transparency and supplied by Totalspan (the ground for which is all assumed to be non-liquefiable on the PS1's), Transparency has no structural objection to Totalspan Wanganui using compacted clean sand to replace any topsoil which is present on site under the slab and perimeter footings in lieu of GAP40 compacted hardfill, as long as the compacted clean sand provided achieves at least 225kPa Geotechnical Ultimate Bearing Capacity.

We trust this letter provides the confirmation you are seeking.

Yours Faithfully,

Andrew J Horton
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