

STRUCTURAL ENGINEERS NEW ZELAND

CONSULTING STRUCTURAL ENGINEERS

RESIDENTIAL, COMMERCIAL, INDUSTRIAL SEISMIC, TEMPORARY WORKS

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059-002

GENERIC DESIGN OF FIXING ARRANGEMENTS FOR THE STORMBANK TANKS & MULTIPLE ASSEMBLIES

FOR DEVAN PLASTICS LTD

GENERIC - MOST LOCATIONS WITHIN NEW ZEALAND WITHIN A "VERY HIGH" WIND ZONE SENZ STRUCTURAL PS1 Sep 2024



| Project: | GENERIC - MOST LOCATIO | NC MUTHINI NIEMA ZEALAL | ND WITHIN A "VERY HI | CH!! WIND ZONE | Job Reference: | |
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| | GENERIC - MOST LOCATIO | N3 WITHIN NEW ZEALA | GH WIND ZONE | 059 | -002 | |
| Section: | | PS1 | | | Revision: | |
| | L21 | | | | | В |
| Calculation by: | Date: | Checked by: | Date: | Approved by: | Date: | Template Rev: |
| USER | 13/09/2024 | SADEER KATTAN | Sep 2024 | SADEER KATTAN | Sep 2024 | 1.05 |

STRUCTURAL ENGINEERS NZ PS1





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|--|--|---|--------------------|-------------------------|----------------|---------------|
| BUILDING CODE CLAUSE(S): | B1 | JOB N | NUMBER: | 059-002 | | |
| ISSUED BY: | | STRUCTURAL ENGINEE (Engineering Design | | | | |
| то: | | DEVAN PLASTICS (Owner/Develope | | | | |
| TO BE SUPPLIED TO: | Al | ll Territorial Authorities wit (Building Consent Aut | | nd | | |
| IN RESPECT OF: | Generic Design Of Fixin | g Arrangements For The St (Description of Building | | s & Multiple Assembl | ies | |
| AT: | Generic - Most Loca | ations Within New Zealand (Address, Town/C | | y High" Wind Zone, | | |
| LEGAL DESCRIPTION: | LOT: | DP: | | | N/A ⊡ | 2 |
| We have been engaged by the owner Structural Engineering Services As Pe in respect of the requirements of the building work. | er Attached Calculations | | nt) : Part Only | , as specified in the S | chedule, of t | he proposed |
| The design carried out by us has beer Compliance documents issu Alternative solution as per t | red by the Ministry of Business, Innov | ation & Employment (Verific | cation method/a | acceptable solution) B | 1-VM1/AS1, \ | /M4 and/or; |
| The proposed building work covered documents set out in the Schedule. | by this producer statement is descri | bed on the drawings specif | fied in the Sche | dule, together with th | e specificatio | on, and other |

On behalf of the Engineering Design Firm, and subject to:

- Site verification of the following design assumptions: Schedule to and inspection schedule appended
- All proprietary products meeting their performance specification requirements;

- the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the Schedule, will comply with the relevant provisions of the Building Code and that;
- the persons who have undertaken the design have the necessary competency to do so.

I recommend the CM2 level of construction monitoring.

Sadeer Kattan am:

(Name of Engineering Design Professional) CPEng number 1013983

• and hold the following qualifications: BE(Hons), CMEngNZ(Structural), CPEng

The Engineering Design Firm holds a current policy of Professional Indemnity Insurance no less than \$200,000.

The Engineering Design Firm a member of ACE New Zealand.

SIGNED BY: Sadeer Kattan

(Signature):



ON BEHALF OF: STRUCTURAL ENGINEERS NZ LTD 13/09/2024 DATE:

Note: This statement has been prepared solely for the Building Consent Authority named above and shall not be relied upon by any other person or entity. Any liability in relation to this statement accrues to the Engineering Design Firm only. As a condition of reliance on this statement, the Building Consent Authority accepts that the total maximum amount of liability of any kind arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in tort or otherwise, is limited to the sum of \$200,000.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

059-002 November 2021 Job Number: Producer Statement PS1



| ٦ | Project: | GENERIC - MOST LOCATION | IC VALITHINI NIEVAL ZEATAL | Job Reference: | | | |
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GUIDANCE ON USE OF PRODUCER STATEMENTS

Information on the use of Producer Statements and Construction Monitoring Guidelines can be found on the Engineering New Zealand website https://www.engineeringnz.org/engineer-tools/engineering-documents/producer-statements/

Producer statements were first introduced with the Building Act 1991. The producer statements were developed by a combined task committee consisting of members of the New Zealand Institute of Architects (NZIA), Institution of Professional Engineers New Zealand (now Engineering New Zealand), Association of Consulting and Engineering New Zealand (ACE NZ) in consultation with the Building Officials Institute of New Zealand (BOINZ). The original suite of producer statements has been revised at the date of this form to ensure standard use within the industry.

The producer statement system is intended to provide Building Consent Authorities (BCAs) with part of the reasonable grounds necessary for the issue of a Building Consent or a Code Compliance Certificate, without necessarily having to duplicate review of design or construction monitoring undertaken by others.

PS1 DESIGN Intended for use by a suitably qualified independent engineering design professional in circumstances where the BCA accepts a producer

statement for establishing reasonable grounds to issue a Building Consent;

PS2 DESIGN REVIEW Intended for use by a suitably qualified independent engineering design review professional where the BCA accepts an independent design

professional's review as the basis for establishing reasonable grounds to issue a Building Consent;

PS3 CONSTRUCTION Forms commonly used as a certificate of completion of building work are Schedule 6 of NZS 3910:2013 or Schedules E1/E2 of NZIA's SCC 2011²;

PS4 CONSTRUCTION REVIEW Intended for use by a suitably qualified independent engineering construction monitoring professional who either undertakes or supervises construction monitoring of the building works where the BCA requests a producer statement prior to issuing a Code Compliance Certificate.

This must be accompanied by a statement of completion of building work (Schedule 6).

The following guidelines are provided by ACE New Zealand and Engineering New Zealand to interpret the Producer Statement.

Competence of Engineering Professional

This statement is made by an engineering firm that has undertaken a contract of services for the services named, and is signed by a person authorised by that firm to verify the processes within the firm and competence of its personnel.

The person signing the Producer Statement on behalf of the engineering firm will have a professional qualification and proven current competence through registration on a national competence-based register such as a Chartered Professional Engineer (CPEng).

Membership of a professional body, such as Engineering New Zealand provides additional assurance of the designer's standing within the profession. If the engineering firm is a member of ACE New Zealand, this provides additional assurance about the standing of the firm.

Persons or firms meeting these criteria satisfy the term "suitably qualified independent engineering professional".

Professional Indemnity Insurance

As part of membership requirements, ACE New Zealand requires all member firms to hold Professional Indemnity Insurance to a minimum level.

The PI Insurance minimum stated on the front of this form reflects standard practice for the relationship between the BCA and the engineering firm.

Professional Services during Construction Phase

There are several levels of service that an engineering firm may provide during the construction phase of a project (CM1- CM5 for engineers³). The building Consent Authority is encouraged to require that the service to be provided by the engineering firm is appropriate for the project concerned.

Requirement to provide Producer Statement PS4

Building Consent Authorities should ensure that the applicant is aware of any requirement for producer statements for the construction phase of building work at the time the building consent is issued as no design professional should be expected to provide a producer statement unless such a requirement forms part of the Design Firm's engagement.

Refer Also:

- 1 Conditions of Contract for Building & Civil Engineering Construction NZS 3910: 2013
- NZIA Standard Conditions of Contract SCC 2011
- Guideline on the Briefing & Engagement for Consulting Engineering Services (ACE New Zealand/Engineering New Zealand 2004)
- 4 PN01 Guidelines on Producer Statements

www.acenz.org.nz

Job Number: 059-002 - Producer Statement PS1 November 2021



| Project: | GENERIC - MOST LOCATIO | NS WITHIN NEW ZEALA | ND WITHIN A "VERY HI | GH" WIND ZONE | Job Reference: | |
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| | | <u>S</u> | CHEDULE TO PR | ODUCER STATEM | ENT - PS1 DESIG | <u>6N</u> | | |
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| Alternati | ive Solutions | | | | | | | |
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| | ocumentation | | :-b 050 003 | | | | | |
| 1) 2) | Engineering Drawings a Engineering calculation | | JOD 059-002 | | | | | |
| | | | | | | | | |
| Design a | ssumptions, Proprie | tary products and | Other exclusions: | | | | | |
| 1) | Site verification of the | | | | | | | |
| -, | Good ground based on | | | | | | | |
| | Inspections as per SEN | Z schedule and all SEI | D elements including th | e provision for a corresp | onding PS4. | | | |
| 2) | All proprietary product | ts meeting their perfo | ormance specification re | equirements; in particula | r this Producer Stater | nent excludes: | | |
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| 3) | Other exclusions; this p | producer statement e | excludes all aspects of: | | | | | |
| | Weather tightness and | l Waterproofing detai | ls and materials | | | | | |
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The Producer Statements issued should not be relied on to establish compliance with the building code clauses E1, E2, E3.

Weathertightness and waterproofing design, materials, proprietary products, construction and/or inspections are specifically excluded from these producer statements.

Job Number: 059-002 - Producer Statement PS1



| Project: | GENERIC - MOST LOCATIO | NC MATEUN NEW ZEALA | CH! WIND ZONE | Job Reference: | | |
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| USER | 13/09/2024 | SADEER KATTAN | Sep 2024 | SADEER KATTAN | Sep 2024 | 1.05 |

To the Building Official,

All Territorial Authorities within New Zealand

Generic Design Of Fixing Arrangements For The Stormbank Tanks & Multiple Assemblies At Generic - Most Locations Within New Zealand Within A "Very High" Wind Zone

Compliance with the Building Code Clause B2 - Durability

The purpose of this letter is to demonstrate how compliance with Clause B2 (Durability) of the Building Code will be achieved for the above project. We can confirm that for specifically designed structural elements that are included within our design documentation:

| Material | Means of Compliance | Details |
|----------------------|----------------------|--|
| Structural Timber | B2/AS1 | Timber treatment has been selected in accordance with Table 1A of B2/AS1 |
| Mild Steel Structure | Alternative Solution | Protection for mild steel has been specified in accordance with SNZ TS 3404 - Durability requirements for steel structures and components and AS/NZS2312 - Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings. This guide works on the time to first maintenance basis and assumes on-going maintenance. Refer to the attached maintenance plan (optional but recommended). |

Yours faithfully,

Sadeer Kattan Managing Director, Lead Structural Engineer



For and on behalf of

STRUCTURAL ENGINEERS NZ LTD

 Job Number:
 059-002
 - Letter in lieu - Construction Monitoring
 April 2020



| П | Project: | GENERIC - MOST LOCATION | IC VALITIUM NIEVAL ZE AL AL | CU" MIND ZONE | Job Reference: | | |
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| ١ | USER | 13/09/2024 | SADEER KATTAN | Sep 2024 | SADEER KATTAN | Sep 2024 | 1.05 |

Structural Maintenance Schedule

Project: Generic Design Of Fixing Arrangements For The Stormbank Tanks & Multiple Assemblies At Generic - Most Locations Within New Zealand Within A "Very High" Wind Zone,

This schedule of ongoing inspection and maintenance of structural elements shall be included with the Operations and Maintenance manuals and provided to the Owner/Body Corporate and building managers.

| Inspection/maintenance timef | rame and item |
|--|---|
| Half-yearly | Wash down all exposed steelwork that is not in a fully interior environment including: Veranda steelwork Steel Carpark structure (beams, columns, braces etc) Deck and balcony steelwork Exposed façade steelwork, both primary and secondary structure Plantrooms and plenums with fresh-air intakes External structural components such as Buckling Restrained Braces, Viscous Dampers, Eccentrically Braced Frames and the like Sub-ground floor mild-steel structures such as beams, isolation bearings etc. |
| (b) 5 yearly | Inspect and repair sealant that encloses structural mild-steel components and/or timber with mild-steel fixings |
| (c) 10 yearly | Check exposed timber fixings for corrosion, repair as required. |
| | Inspect/replace sealant that encloses structural mild-steel components and/or timber with mild-steel fixings. This will typically include sealants around the perimeter of precast panels. Note that 10 years is the expected useful life for many sealants |
| | Check exposed structural steel within plantrooms and plenums for corrosion. Repair protective coatings as required. |
| | Check all exposed steelwork that is not in a fully interior environment for signs of corrosion. Repair protective coatings as required. |
| | Audit of damage to exposed intumescent coatings. Repair as required. |
| (d) 25 yearly | Inspect samples of structural steel that is hidden from view but not enclosed within a vapour barrier, and repair protective coatings as necessary. A typical example is a veranda with built-in steelwork. (Such steelwork should typically have duplex protective coatings). Inspection may typically require removal of claddings and/or the drilling of holes for borescope access. Repair as required. |
| | Inspect all exposed, external timber. Repair as required. |
| | Inspect all exposed, external reinforced concrete for signs of spalling or cracking. Repair as required. |
| | Audit of damage to enclosed intumescent coatings. Repair as required. |
| Following fit-out or alterations | Audit of damage to intumescent coatings. Repair as required. |
| Following seismic shaking > SLS1 event | Inspections and repair as per b), c) and d) above |

 Job Number:
 059-002
 - Structural Maintenance Shedule
 August 2021



| Project: | NERIC - MOST LOCATION | IC VALITATION NIEVAL ZEALAT | CU!! WIND ZONE | Job Reference: | | |
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| We confirm that SENZ have been engaged to undertake construction monitoring of the specific engineering design items to an Engineering New Zealand/ACENZ CM2 level and propose to undertake at least the following site inspections: Inspections to be completed by: Geotechnical Inspections Inspection to confirm topsoil removal and subgrade/strength and/or sub/base compaction as per the geotechnical report. Engineered fill or Gravel raft compaction as per design and geotechnical report. Bridging parameters (if applicable) SENZ have been engaged to undertake construction monitoring of the specific engineering design items to an Engineering New Zealand/ACENZ Geotech 2 and Eng | ar engateding | www.structurar-en | g3.CO.112 | USEK | 13/09/2024 | SADEER KATTAN | Sep 2024 | SADEER KATTAN | Sep 2024 | 1.05 |
|--|---------------|--------------------|---------------|-------------------|-------------------------|----------------------------|-----------------------|--------------------------|--------------------------|---------|
| Schedule of inspections for: Address: Generic - Most Locations Within New Zealand Within A "Very High" Wind Zone, The inspections required are also dependant on the conditions of the building consent as per local building authority requirements. We would advise checking with council wh doubt. We confirm that SENZ have been engaged to undertake construction monitoring of the specific engineering design items to an Engineering New Zealand/ACENZ CM2 level and propose to undertake at least the following site inspections: Inspections to be completed by: Geotechnical Inspections Geotech as engaged by the developer/owner By SENZ inspection to confirm topsoil removal and subgrade/strength and/or sub/base compaction as per the geotechnical report. Engineered fill or Gravel raft compaction as per design and geotechnical report. Bridging parameters (if applicable) Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. No. Item of inspection Timeframe | | | | | ! | | • | | | |
| Address: Generic - Most Locations Within New Zealand Within A "Very High" Wind Zone, The inspections required are also dependant on the conditions of the building consent as per local building authority requirements. We would advise checking with council wh doubt. We confirm that SENZ have been engaged to undertake construction monitoring of the specific engineering design items to an Engineering New Zealand/ACENZ CM2 level and propose to undertake at least the following site inspections: Inspections to be completed by: Geotechnical Inspections Geotech as engaged by the developer/owner developer/owner Site scrape Inspection to confirm topsoil removal and subgrade/strength and/or sub/base compaction as per the geotechnical report. Engineered fill or Gravel raft compaction as per design and geotechnical report. Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. No. Item of inspection Timeframe Prepared by the posts to be put in place. | | | | | Construc | tion Monitoring S | Schedule_ | | | |
| Address: Generic - Most Locations Within New Zealand Within A "Very High" Wind Zone, The inspections required are also dependant on the conditions of the building consent as per local building authority requirements. We would advise checking with council wh doubt. We confirm that SENZ have been engaged to undertake construction monitoring of the specific engineering design items to an Engineering New Zealand/ACENZ CM2 level and propose to undertake at least the following site inspections: Inspections to be completed by: Geotechnical Inspections Geotech as engaged by the developer/owner By SENZ developer/owner Compaction as per the geotechnical report. Site scrape Inspection to confirm topsoil removal and subgrade/strength and/or sub/base Compaction as per the geotechnical report. Engineered fill or Site geotextile and/or geogrid as required by design drawings and certify Gravel raft Compaction as per design and geotechnical report. Bridging parameters Site geotextile and/or geogrid as required by design drawings and certify Compaction as per design and geotechnical report. No. Item of inspection Timeframe | | | | | | | | | | |
| The inspections required are also dependant on the conditions of the building consent as per local building authority requirements. We would advise checking with council wh doubt. We confirm that SENZ have been engaged to undertake construction monitoring of the specific engineering design items to an Engineering New Zealand/ACENZ CM2 level and propose to undertake at least the following site inspections: Inspections to be completed by: Geotechnical Inspections Geotechnical Inspections Geotechnical Inspection to confirm topsoil removal and subgrade/strength and/or sub/base compaction as per the geotechnical report. Engineered fill or Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. Bridging parameters Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. No. Item of inspection Timeframe | Schedu | ule of inspecti | ions for: | | | | | | | |
| We confirm that SENZ have been engaged to undertake construction monitoring of the specific engineering design items to an Engineering New Zealand/ACENZ CM2 level and propose to undertake at least the following site inspections: Inspections to be completed by: Geotechnical Inspections | Addres | SS: Ger | neric - Most | Locations Within | New Zealand Within A | "Very High" Wind Zone, | | | | |
| CM2 level and propose to undertake at least the following site inspections: Inspections to be completed by: Geotechnical Inspections Geotech as engaged by the developer/owner By SENZ Site scrape Inspection to confirm topsoil removal and subgrade/strength and/or sub/base compaction as per the geotechnical report. Engineered fill or Gravel raft Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. Bridging parameters (if applicable) Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. No. Item of inspection Timeframe Prepare by the certs to be put in place. | | ections required a | are also depe | endant on the con | ditions of the building | consent as per local build | ding authority requir | ements. We would advi | se checking with council | when in |
| Geotechnical Inspections Geotech as engaged by the developer/owner By SENZ | | | | | | = - | cific engineering des | ign items to an Engineer | ing New Zealand/ACENZ | |
| Site scrape Inspection to confirm topsoil removal and subgrade/strength and/or sub/base compaction as per the geotechnical report. Engineered fill or Gravel raft compaction as per design and geotechnical report. Bridging parameters (if applicable) Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. No. Item of inspection Timeframe | Inspect | tions to be co | mpleted l | oy: | | | | | | |
| Engineered fill or Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. Bridging parameters Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. Bridging parameters (if applicable) compaction as per design and geotechnical report. No. Item of inspection Timeframe | Geotech | nnical Inspection | าร | | | | | | By SENZ | |
| Gravel raft compaction as per design and geotechnical report. Bridging parameters (if applicable) Site geotextile and/or geogrid as required by design drawings and certify compaction as per design and geotechnical report. No. Item of inspection Timeframe | Site scrane | | | | - | ength and/or sub/base | | ✓ | | |
| (if applicable) compaction as per design and geotechnical report. No. Item of inspection Timeframe Pre-pour but notes to be put in place. | _ | | _ | | | wings and certify | | | | |
| Pre-pour but notes to be put in place | | | - | | | wings and certify | | | | |
| 1 Foundation Footings Pre-pour but posts to be put in place | No. | Item of ins | spection | | Timeframe | | | | | |
| | 1 | Foundation Fo | otings | | Pre-pour but posts to | be put in place | | | | |
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Notes:

- a) The above items of inspection are the minimum required to enable STRUCTURAL ENGINEERS NZ LTD to issue a PS4 Producer Statement Construction Review for the specific engineering design items.
- b) The above items of inspection do not cover work constructed in accordance with NZS 3604:2011, for which inspections are to be undertaken by the Building Consent Authority.
- c) The Contractor/Builder is to provide STRUCTURAL ENGINEERS NZ LTD at least 24 hours' notice of the requirement for an inspection. The above timeframes are indicative, the Engineer and Contractor are to agree the timing of inspection prior to work commencing on site.
- d) A copy of this inspection schedule is to be held on site during the works, and the Contractor/Builder is to provide reasonable and safe access to enable works to be inspected according to the schedule.
- e) The above schedule does not necessarily represent the actual number of inspections to be undertaken. The number of inspections will depend on the construction method, sequence of the works and whether or not unforeseen conditions or difficulties are encountered on site.

 Job Number:
 059-002
 - Construction Monitoring Schedule
 August 2021