



RoofTG Pacific
Attn: Neville Parker
90 - 104 Felton Mathew Ave
Glenn Innes, Auckland

NEW_ZEALAND

03/09/2020

Dear Neville,

Please find the attached report to AS/NZS 4020:2018 for Textured Teak, Textured Garnet and Painted Ocean Blue submitted for testing.

Should you have any enquiries about the report or any other matters pertaining to the Standard please contact the laboratory on 61 8 7424 1512

Yours sincerely,

Michael Glasson
Supervisor Product Testing



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FINAL REPORT

Report ID : 290600

Report Information

Submitting Organisation : 00120857 : RoofTG Pacific
Account : 141570 : RoofTG Pacific
AWQC Reference : 141570-2019-CSR-1 : Prod Test: Material A,B,C
Project Reference : PT-4136
Product Designation : Textured Teak, Textured Garnet and Painted Ocean Blue
Composition of Product : Pressed Zinalume Steel with Applied Coatings.
Product Manufacturer : Roof TG Pacific, Glen Innes, Auckland, NEW ZEALAND.
Use of Product : In-Line/Roof Tiles for Water Collection.
Sample Selection: As provided by the submitting organisation.
Testing Requested : **AS/NZS 4020 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**
Product Type : Composite
Samples : Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018
Extracts : Extracts were prepared as described in Appendix/Clause C, D, E, F, H, 6.8.
Project Completion Date : 03-Sep-2020
Project Comment : The results presented herein demonstrate compliance of the Textured Teak , Textured Garnet and Painted Ocean Blue to AS/NZS 4020 when each exposed at area to volume ratios up to 15000 mm²/L at 20°C ± 2°C.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER

Michael Glasson
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Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed when tested at an exposure of 15000 mm ² per litre (each panel tested independently).
D – Appearance	Passed when tested at an exposure of 15000 mm ² per litre.
E – Growth of Aquatic Micro-organisms	Passed when tested at an exposure of 15000 mm ² per litre.
F – Cytotoxic Activity	Passed when tested at an exposure of 15000 mm ² per litre (each panel tested independently).
H – Metals	Passed when tested at an exposure of 15000 mm ² per litre.
6.8 – Organic Compounds	Passed when tested at an exposure of 15000 mm ² per litre.

Test Methods

Test(s) in Appendix	AWQC Test Method	Reference Method
C	T0320-01	AS/NZS 4020:2018
D	TO029-01 & TO018-01	APHA 2120c & APHA 2130b
E	TO014-03	APHA 4500 O G
F	TM-001	AS/NZS 4020:2018
H	TIC-006	EPA 200.8

Organic Test Methods

Test(s) in Clause	Test Method	Reference Method
Clause 6.8	TMZ-M36	USEPA524.2
	EP239	USEPA521
	EP132-LL	USEPA_SW846-8270D
	EP075C	USEPA_SW846-8270D
	EP075ASIM	USEPA_SW846-8270D

Summary Comment :

The materials failed to meet the requirement for cytotoxicity when tested combined. The test was repeated on the individual materials and with a non-cytotoxic response. The materials were tested individually for the taste test.



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CLAUSE 6.2 Taste

Sample Description	The sample consisted of 6 panels (two panels for each material) with dimensions 75 mm x 100 mm providing a surface area of approximately 15,000 mm ² per Litre for each material. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.
Extraction Temperature	20°C ± 2°C.
Test Method	Taste (Appendix C)
Test Information	
Scaling Factor	Not applied.
Results	Not detected (sample and controls).
Evaluation	The product passed the requirements of clause 6.2 when tested at an exposure of 15000 mm ² per Litre for each material.
Number of Samples	2.
Test Comment	Not applicable.

Peter Christopoulos
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CLAUSE 6.3 Appearance

Sample Description The sample consisted of 6 panels (two panels for each material) with dimensions 75 mm x 100 mm providing a surface area of approximately 15,000 mm² per Litre for each material. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Appearance (Appendix D)

Scaling Factor Not applied.

Results

	<u>Test (- Blank)</u>	<u>Maximum Allowed</u>	<u>Units</u>
Colour	<1	5	HU
Turbidity	0.2	0.5	NTU

Evaluation The product passed the requirements of clause 6.3 when tested at an exposure of 15000 mm² per Litre for each material.

Number of Samples 1.

Test Comment Not applicable.



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CLAUSE 6.4 Growth of Aquatic Micro-organisms

Sample Description The sample consisted of 6 panels (two panels for each material) with dimensions 75 mm x 100 mm providing a surface area of approximately 15,000 mm² per Litre for each material. Extracts were prepared using 1000 mL volumes of test water.

Test Method Growth of Aquatic Micro-organisms (Appendix E)

Inoculum The volume of the inoculum was 100 mL

Scaling Factor Not applied.

Results

Mean Dissolved Oxygen	Control	7.2 mg/L
Mean Dissolved Oxygen Difference	Positive Reference	4.8 mg/L
	Negative Reference	<0.1 mg/L
	Test	2.00 mg/L

Evaluation The product passed the requirements of clause 6.4 when tested at an exposure of 15000 mm² per Litre for each material.

Number of Samples 1.

Test Comment Not applicable.



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CLAUSE 6.5 Cytotoxic Activity

Sample Description The sample consisted of 6 panels (two panels for each material) with dimensions 75 mm x 100 mm providing a surface area of approximately 15,000 mm² per Litre for each material. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Cytotoxic Activity (Appendix F)

Scaling Factor Not applied.

Results Non-cytotoxic (sample and controls).

Evaluation The product passed the requirements of clause 6.5 when tested at an exposure of 15000 mm² per Litre for each material.

Number of Samples 1.

Test Comment The test extracts and blank extracts were used to prepare nutrient growth medium and subsequently used to grow a cell line (ATCC Number CCL 81) in the analysis. In addition zinc sulphate (0.4 mmol) was used for the positive control in the analysis.



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CLAUSE 6.7

Metals

Sample Description

The sample consisted of 6 panels (two panels for each material) with dimensions 75 mm x 100 mm providing a surface area of approximately 15,000 mm² per Litre for each material.

Extraction Temperature

Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.
20°C ± 2°C.

Test Method

Metals (Appendix H)

Scaling Factor

Not applied.

Method of Analysis

All methods used to determine concentrations of metals are based on those described in the US EPA method 200.8 Determination of Trace elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry. The methods have been adapted for the instrumentation in use at the Australian Water Quality Centre.

Concentration of the metals described in Table 2 of the AS/NZS 4020:2018 are determined as follows:

Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium and Silver by Inductively Coupled Plasma Mass Spectrometry.

Results	Limit of Reporting mg/L	Blank mg/L	Test 1 mg/L	Test 2 mg/L	Max Allowed mg/L
Final Extract					
Aluminium	0.001	0.005	0.145	0.149	0.2
Antimony	0.0005	<0.0005	<0.0005	<0.0005	0.003
Arsenic	0.0003	<0.0003	<0.0003	<0.0003	0.01
Barium	0.0005	<0.0005	0.0025	0.0025	0.7
Boron	0.020	0.020	<0.020	<0.020	1.4
Cadmium	0.0001	<0.0001	<0.0001	<0.0001	0.002
Chromium	0.0001	<0.0001	0.0026	0.0026	0.05
Copper	0.0001	0.0002	0.0001	0.0001	2.0
Iron	0.0005	<0.0005	<0.0005	<0.0005	0.3
Lead	0.0001	<0.0001	<0.0001	<0.0001	0.01
Manganese	0.0001	<0.0001	0.0007	0.0006	0.1
Mercury	0.00003	<0.00003	<0.00003	<0.00003	0.001
Molybdenum	0.0001	<0.0001	<0.0001	<0.0001	0.05
Nickel	0.0001	<0.0001	<0.0001	<0.0001	0.02
Selenium	0.0001	<0.0001	<0.0001	<0.0001	0.01
Silver	0.00003	<0.00003	<0.00003	<0.00003	0.1

Evaluation

The product passed the requirements of clause 6.7 when tested at an exposure of 15000 mm² per Litre for each material.

Number of Samples

1.

Test Comment

Not applicable.



Dzung Bui

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CLAUSE 6.8 Organic Compounds

Sample Description The sample consisted of 6 panels (two panels for each material) with dimensions 75 mm x 100 mm providing a surface area of approximately 15,000 mm² per Litre for each material. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 20°C ± 2°C.

Test Method Organic Compounds (Clause 6.8). Max Allowed values are taken from the Australian Drinking Water Guidelines and Drinking-water Standards for New Zealand. Please note, some reported compounds have no guideline value.

Scaling Factor Not applied.

Results

Organic Compound

Nitrosamines	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2001586	ES2001586	
!External Lab Report No.	ES2001586	ES2001586	
1-Nitrosopiperidine (NPip)	<0.003	<0.003	
1-Nitrosopiperidine (NPip)	<0.003	<0.003	
1-Nitrosopyrrolidine (NPyr)	<0.01	<0.01	
1-Nitrosopyrrolidine (NPyr)	<0.01	<0.01	
Nitrosomorpholine (NMor)	<0.003	<0.003	
Nitrosomorpholine (NMor)	<0.003	<0.003	
N-Nitrosodiethylamine (NDEA)	<0.01	<0.01	
N-Nitrosodiethylamine (NDEA)	<0.01	<0.01	
N-Nitrosodimethylamine (NDMA)	0.003	<0.003	0.1 µg/L
N-Nitrosodimethylamine (NDMA)	<0.003	<0.003	0.1 µg/L
N-Nitrosodi-n-propylamine (NDPA)	<0.003	<0.003	
N-Nitrosodi-n-propylamine (NDPA)	<0.003	<0.003	
N-Nitrosomethylethylamine (NMEA)	<0.003	<0.003	
N-Nitrosomethylethylamine (NMEA)	<0.003	<0.003	



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Organic Compound

Phenols	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2001586	ES2001586	
!External Lab Report No.	ES2001586	ES2001586	
2 4 5-trichlorophenol	<1.0	<1.0	
2 4 5-trichlorophenol	<1.0	<1.0	
2 4 6-trichlorophenol	<1.0	<1.0	20 µg/L
2 4 6-trichlorophenol	<1.0	<1.0	20 µg/L
2 4-dichlorophenol	<1.0	<1.0	200 µg/L
2 4-dichlorophenol	<1.0	<1.0	200 µg/L
2 4-dimethylphenol	<1.0	<1.0	
2 4-dimethylphenol	<1.0	<1.0	
2 6-dichlorophenol	<1.0	<1.0	
2 6-dichlorophenol	<1.0	<1.0	
2-chlorophenol	<1.0	<1.0	300 µg/L
2-chlorophenol	<1.0	<1.0	300 µg/L
2-nitrophenol	<1.0	<1.0	
2-nitrophenol	<1.0	<1.0	
4-chloro-3-methylphenol	<1.0	<1.0	
4-chloro-3-methylphenol	<1.0	<1.0	
m+p cresol	<2.0	<2.0	
m+p cresol	<2.0	<2.0	
o-cresol	<1.0	<1.0	
o-cresol	<1.0	<1.0	
pentachlorophenol	<2.0	<2.0	9 µg/L
pentachlorophenol	<2.0	<2.0	9 µg/L
phenol	<1.0	<1.0	
phenol	<1.0	<1.0	

Organic Compound

Phthalate Esters	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2001586	ES2001586	
!External Lab Report No.	ES2001586	ES2001586	
Bis(2-ethylhexyl) phthalate	<10	<10	10 µg/L
Bis(2-ethylhexyl) phthalate	<10	<10	10 µg/L
Butyl benzyl phthalate	<2	<2	
Butyl benzyl phthalate	<2	<2	
Di(2-ethylhexyl) adipate	<2	<2	
Di(2-ethylhexyl) adipate	<2	<2	
Diethyl phthalate	<2	<2	
Diethyl phthalate	<2	<2	
Dimethyl phthalate	<2	<2	
Dimethyl phthalate	<2	<2	
Di-n-butyl phthalate	<2	<2	
Di-n-butyl phthalate	<2	<2	
Di-n-octyl phthalate	<2	<2	
Di-n-octyl phthalate	<2	<2	



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Organic Compound

Polycyclic Aromatic Hydrocarbons

	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2001586	ES2001586	
!External Lab Report No.	ES2001586	ES2001586	
Acenaphthene	<0.02	<0.02	
Acenaphthene	<0.02	<0.02	
Acenaphthylene	<0.02	<0.02	
Acenaphthylene	<0.02	<0.02	
Anthracene	<0.02	<0.02	
Anthracene	<0.02	<0.02	
Benzo(a)anthracene	<0.02	<0.02	
Benzo(a)anthracene	<0.02	<0.02	
Benzo(a)pyrene	<0.005	<0.005	0.01 µg/L
Benzo(a)pyrene	<0.005	<0.005	0.01 µg/L
Benzo(a)pyrene TEQ	<0.005	<0.005	
Benzo(a)pyrene TEQ	<0.005	<0.005	
Benzo(b+j)fluoranthene	<0.02	<0.02	
Benzo(b+j)fluoranthene	<0.02	<0.02	
Benzo(ghi)perylene	<0.02	<0.02	
Benzo(ghi)perylene	<0.02	<0.02	
Benzo(k)fluoranthene	<0.02	<0.02	
Benzo(k)fluoranthene	<0.02	<0.02	
Chrysene	<0.02	<0.02	
Chrysene	<0.02	<0.02	
Dibenzo(a-h)anthracene	<0.02	<0.02	
Dibenzo(a-h)anthracene	<0.02	<0.02	
Fluoranthene	<0.02	<0.02	
Fluoranthene	<0.02	<0.02	
Fluorene	<0.02	<0.02	
Fluorene	<0.02	<0.02	
Indeno(123-cd)pyrene	<0.02	<0.02	
Indeno(123-cd)pyrene	<0.02	<0.02	
Naphthalene	<0.02	<0.02	
Naphthalene	<0.02	<0.02	
PAH - Total	<0.005	<0.005	
PAH - Total	<0.005	<0.005	
Phenanthrene	<0.02	<0.02	
Phenanthrene	<0.02	<0.02	
Pyrene	<0.02	<0.02	
Pyrene	<0.02	<0.02	



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Organic Compound

Volatile Organic Compounds GCMS

	Blank µg/L	Test µg/L	Max Allowed
1 1 1 2-Tetrachloroethane	<1	<1	
1 1 1 2-Tetrachloroethane	<1	<1	
1 1 1-Trichloroethane	<1	<1	
1 1 1-Trichloroethane	<1	<1	
1 1 2 2-Tetrachloroethane	<1	<1	
1 1 2 2-Tetrachloroethane	<1	<1	
1 1 2-Trichloroethane	<1	<1	
1 1 2-Trichloroethane	<1	<1	
1 1-Dichloropropene	<1	<1	
1 1-Dichloropropene	<1	<1	
1 2 3-Trichlorobenzene	<1	<1	
1 2 3-Trichlorobenzene	<1	<1	
1 2 3-Trichloropropane	<1	<1	
1 2 3-Trichloropropane	<1	<1	
1 2 4-Trichlorobenzene	<1	<1	
1 2 4-Trichlorobenzene	<1	<1	
1 2 4-Trimethylbenzene	<1	<1	
1 2 4-Trimethylbenzene	<1	<1	
1 2-Dibromo-3-chloropropane	<1	<1	1 µg/L
1 2-Dibromo-3-chloropropane	<1	<1	1 µg/L
1 2-Dibromoethane	<1	<1	1 µg/L
1 2-Dibromoethane	<1	<1	1 µg/L
1 2-Dichlorobenzene	<1	<1	1500 µg/L
1 2-Dichlorobenzene	<1	<1	1500 µg/L
1 2-Dichloroethane	<1	<1	3 µg/L
1 2-Dichloroethane	<1	<1	3 µg/L
1 2-Dichloropropane	<1	<1	
1 2-Dichloropropane	<1	<1	
1 3 5-Trimethylbenzene	<1	<1	
1 3 5-Trimethylbenzene	<1	<1	
1 3-Dichlorobenzene	<1	<1	
1 3-Dichlorobenzene	<1	<1	
1 3-Dichloropropane	<1	<1	
1 3-Dichloropropane	<1	<1	
1 4-Dichlorobenzene	<1	<1	40 µg/L
1 4-Dichlorobenzene	<1	<1	40 µg/L
1,1-Dichloroethane	<1	<1	
1,1-Dichloroethane	<1	<1	
1,1-Dichloroethene	<1	<1	30 µg/L
1,1-Dichloroethene	<1	<1	30 µg/L
2,2-Dichloropropane	<1	<1	
2,2-Dichloropropane	<1	<1	
2-Chlorotoluene	<1	<1	
2-Chlorotoluene	<1	<1	
4-Chlorotoluene	<1	<1	



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Volatile Organic Compounds GCMS

	Blank µg/L	Test µg/L	Max Allowed
4-Chlorotoluene	<1	<1	
4-Isopropyltoluene	<1	<1	
4-Isopropyltoluene	<1	<1	
Benzene	<1	<1	1 µg/L
Benzene	<1	<1	1 µg/L
Bromobenzene	<1	<1	
Bromobenzene	<1	<1	
Bromochloromethane	<1	<1	
Bromochloromethane	<1	<1	
Bromodichloromethane	<1	<1	60 µg/L
Bromodichloromethane	<1	<1	60 µg/L
Bromoform	<1	<1	100 µg/L
Bromoform	<1	<1	100 µg/L
Bromomethane	<4	<4	
Bromomethane	<4	<4	
Carbon tetrachloride	<1	<1	3 µg/L
Carbon tetrachloride	<1	<1	3 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chloroethane	<4	<4	
Chloroethane	<4	<4	
Chloroform	<1	<1	400 µg/L
Chloroform	<1	<1	400 µg/L
Chloromethane	<4	<4	
Chloromethane	<4	<4	
cis-1,3-Dichloropropene	<1	<1	
cis-1,3-Dichloropropene	<1	<1	
cis-1,2-Dichloroethene	<1	<1	
cis-1,2-Dichloroethene	<1	<1	
Dibromochloromethane	<1	<1	150 µg/L
Dibromochloromethane	<1	<1	150 µg/L
Dibromomethane	<1	<1	
Dibromomethane	<1	<1	
Dichlorodifluoromethane	<1	<1	
Dichlorodifluoromethane	<1	<1	
Dichloromethane	<4	<4	4 µg/L
Dichloromethane	<4	<4	4 µg/L
Ethylbenzene	<1	<1	300 µg/L
Ethylbenzene	<1	<1	300 µg/L
Hexachlorobutadiene	<0.7	<0.7	0.7 µg/L
Hexachlorobutadiene	<0.7	<0.7	0.7 µg/L
Isopropylbenzene	<1	<1	
Isopropylbenzene	<1	<1	
m+p-Xylenes - Total	<2	<2	
m+p-Xylenes - Total	<2	<2	



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Volatile Organic Compounds GCMS	Blank µg/L	Test µg/L	Max Allowed
Naphthalene	<1	<1	
Naphthalene	<1	<1	
n-Butylbenzene	<1	<1	
n-Butylbenzene	<1	<1	
n-Propylbenzene	<1	<1	
n-Propylbenzene	<1	<1	
o-Xylene	<1	<1	
o-Xylene	<1	<1	
sec-Butylbenzene	<1	<1	
sec-Butylbenzene	<1	<1	
Styrene	<1	<1	30 µg/L
Styrene	<1	<1	30 µg/L
tert-Butylbenzene	<1	<1	
tert-Butylbenzene	<1	<1	
Tetrachloroethene	<1	<1	50 µg/L
Tetrachloroethene	<1	<1	50 µg/L
Toluene	<1	<1	800 µg/L
Toluene	<1	<1	800 µg/L
Total 1 2-dichloroethene	<2	<2	60 µg/L
Total 1 2-dichloroethene	<2	<2	60 µg/L
Total 1 3-dichloropropene	<2	<2	20 µg/L
Total 1 3-dichloropropene	<2	<2	20 µg/L
Total Trichlorobenzene	<2	<2	30 µg/L
Total Trichlorobenzene	<2	<2	30 µg/L
Total Xylene	<3	<3	600 µg/L
Total Xylene	<3	<3	600 µg/L
trans-1 3-Dichloropropene	<1	<1	
trans-1 3-Dichloropropene	<1	<1	
trans-1,2-Dichloroethene	<1	<1	
trans-1,2-Dichloroethene	<1	<1	
Trichloroethene	<1	<1	
Trichloroethene	<1	<1	
Trichlorofluoromethane	<1	<1	
Trichlorofluoromethane	<1	<1	
Trihalomethanes - Total	<4	<4	250 µg/L
Trihalomethanes - Total	<4	<4	250 µg/L
Vinyl chloride	<0.3	<0.3	0.3 µg/L
Vinyl chloride	<0.3	<0.3	0.3 µg/L



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Evaluation The product passed the requirements of clause 6.8 when tested at an exposure of 15000 mm² per Litre for each material.

Number of Samples 1.

Test Comment Not applicable.

Qiong Huang

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