

RECKLI®

FORM-LINERS & MOULDS

Experience and Quality

MADE IN
MELBOURNE

MOULDS FOR

ART

ON CONCRETE

For more copies of this catalogue, email us on info@reckli.com.au



History of Reckli Group Australia

Experience and Quality

Reckli in Australia was formed in 2004 by John Joveski, who since 1989 has been involved with reinforcing steel supply to the Precast & Insitu-Cast Concrete Wall industry in Victoria.

Having identified a lack of local availability of mould suppliers to the Precastors & Insitu-Cast Wall manufacturers, John discovered Reckli, **a world leader in this field**, who had no representation in Australia, thus seemed to be a perfect opportunity to establish operations in Australia.

The first Reckli office in Australia was set up in North Laverton, Victoria in 2004.

Here we displayed the different standard sample profiles where orders were arranged and sent to Germany, where they were manufactured and delivered via Seafreight or Airfreight to Australia.

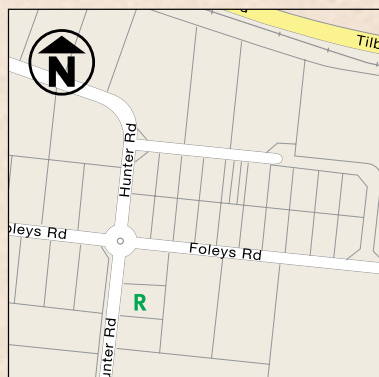
As demand for form-liners grew, the tight construction time constraints also put pressure on safe and quick supply of our form-liners from Germany, thus in late 2009, we moved to our 2nd factory in Derrimut and again in September 2012 we moved to our current 3rd larger location 84 Hunter Road Derrimut, Victoria, 3026 Australia.

We can now make all form-liners here and supply standard form-liners in 2 weeks (Ex-Melbourne), allowing quicker project supply.

As Reckli-AU has earned the confidence & respect of Designers, we have also invested in the ability to make unique/custom moulds (project specific) at our current facility.

Along with the support of Reckli-International's other offices in over 65 Countries, we have our own in-house Designers, CNC Programmers, state of the art 3-d CNC Milling Machines and Laser cutting/engraving machines and various other specific machines.

This means that we can make form-liners to almost any profile, **FAST** and of **HIGH QUALITY**, here in Melbourne Australia.



Disclaimer:

All form-liner dimensions are nominal. Actual dimensions may vary slightly depending upon design. Despite our carefully controlled production processes, dimensional tolerances are unavoidable. Due to the high elasticity of our form-liners, they can also stretch and be compressed during packing and transport, which may add to dimensional variations.

Methods of concrete panel manufacture vary between all manufacturers and also at different times of the year, so we recommend you adopt our suggestions outlined in our "Application Guideline for Reckli Form-Liners" (refer to pages 52 - 65).

Limited Warranty:

Reckli warrants their form-liners to be of uniform quality within manufacturing specifications and will perform as represented, provided that the concrete construction practices used are in accordance with our guidelines and installation instructions.

Reckli assumes no responsibility for any damage to form-liners due to the improper use or application of a non-Reckli form release agents.

Our obligation under this warranty shall be limited to refunding the purchase price or replacing that portion of the material proven to be defective.

Reckli make no other warranty expressed or implied, including, without limitation, warranties of fitness or merchantability, with respect to its products. **For more information refer to www.reckli.com.au/termsandconditions**

World of Reckli

RECKLI stands for creative freedom in concrete design. For over 50 years, we have been synonymous for architectural concrete that meets the highest demands in terms of design and individuality. As a manufacturer of reusable elastic moulds and formliners, planners and architects all over the world put their trust in us. There are no limits to creativity. The combination of state-of-the-art machine technology with traditional craftsmanship allows the implementation of individual structures, graphics, photos and three-dimensional visualisation. In addition, RECKLI offer over 250 finished designs from a wide range of areas. High-quality surface finishes, such as concrete retarders, concrete deactivators, photo concrete sheets, impregnations and protective systems, as well as products for colour surface design, make us the specialist for architectural concrete.



Partners in over 65 Countries

Index

Experience and Quality

National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia **TEL: 1800 176 044** **E** australia@reckli.com.au **W** www.reckli.com.au

A		
Abruzzo	2/187	30
Ahr	2/20	6
Aller	2/21	6
Allgäu	2/147	17
Alsace	1/138	13
Aister	2/23	6
Altmühl	2/22	6
Amazonas	2/95	24
Ameland	1/26	11
Amrum	1/01	13
Amur	2/106B	2
Andalucía	2/146	19
Antislip	2/178	29
Ardèche	2/116	7
Ardenne	2/190	31
Arno	2/68	5
Asturias	2/181	31
Aurillac	2/327	22
Ausbrick (Stack-Bond)	2/718	15
Ausbrick (Stretch-Bond)	2/719	15
Auvergne	2/139	17

B		
Baltrum	1/25	11
Bali	2/240	6
Bavaria	2/158	21
Bohemia	1/199	25
Borkum	1/02	12
Borneo	2/242	23
Bornholm	1/18	8
Bourgogne	2/137	17
Brabant	2/164	19
Breisgau	2/174	14
Bretagne	2/136	21
Broadway	2/702	11
Burgenland	2/191	31

C		
California	2/236	25
Camargue	2/140	16
Champagne	2/188	31
Charente	2/601	32
Cheyenne	2/121	21
Cilento	2/166	20
Colorado	2/82	6
Columbia	2/169	11
Corse	1/43	14

Custom Form-Liners 38-43

D		
Dachstein	2/141	15
Dalarna	2/186	30
2.5D Form-Liners		32
Don	2/71	22
Donau	2/24	6
Dordogne	2/125	13
Drau	2/65	15
Duero	2/89	16
Durance	1/354	19

E		
Eder	2/25	8
Elbe	2/26	8
Embrun	1/352	21
Ems	2/27	7
Emscher	2/28	7
Engadin	2/312	17
Estérel	2/161	19
Etampes	1/331	9
Euphrat	2/105	4

F		
Fehmarn	1/03	9
Fichtelberg	2/157	20
Föhr	1/04	9
Fort-de-France	1/347B	3
Fraser	2/163	6
Friesland	2/175	24
Fulda	2/29	25

G		
Ganges	2/78	16
Garonne	2/56 B	2
Gasconne	1/174	14
Gelderland	2/183	30
Gironde	2/151	13
Gobi	2/222	31
Gotland	1/24	9
Gysenberg	2/195	25

H		
Half Raba	2/177	26
Havel	2/30 B	2
Hawaii	2/241	11
Helgoland	1/05	12
Hollédau	2/197	25
Hudson	2/128	16

Groups

Broken Rib Patterns	2-3
Rough & Textured Patterns	4-5
Wood Patterns	6-9
Abstract Patterns	10-14

I		
Ibiza	1/41 B	3
Iller	2/31	10
Indus	2/108 B	2
Inn	2/32	10
Insitu-Cast Examples		46-47
Isar	2/33	5

J		
Jamaica	2/244	30
Java	2/237	10
Juist	1/06	12

K		
Kerkyra	1/20	12
Kerry	2/235	5
Köcher	2/75	26
Kongo	2/97	8
Krete	1/29	3

L		
La Reunion	2/374	18
Lahn	2/34	5
Langeoog	1/07	9
Lanzarote	1/148	26
Larnaka	1/126 B	3
Lausitz	2/131	5
Lena	2/103	4
Lenne	2/37	10
Liberty	2/701	11
Loire	2/57	13
Lolland	1/28	9

M		
Madeira	1/42	24
Main	2/39	15
Mainau	1/08	9
Malta	1/21 B	3
Marne	2/69	5
Martinique	2/152	7
Mayenne	2/79	17
Mekong	2/107 B	2
Mersey	2/219	16
Miramas	2/337	10
Miribel	2/340	22
Missouri	2/84	7
Möhne	2/40	15
Mosel	2/41	21
Mordialloc	2/375	18

N		
Naab	2/42	10
Nahe	2/43	12
Neckar	2/44	11
Newa	2/209	20
Niger	2/96	8
Nil	2/76	4
Norderney	1/09 B	3

O		
Ob	2/72	16
Oder	2/45	13
Ohio	2/87 B	2
Oriental 9	2/109	23
Oriental 10	2/110	23
Oriental 11	2/111	23
Oriental 12	2/112	23
Oriental 13	2/113	23
Oriental 14	2/114	23
Orinoco	2/94	24

P		
Parana	2/102	4
Pastillen	2/115	29
Pellworm	1/10	8
Pennsilva	1/316 B	2
Pierre de Sable	2/318	20
Pikes	2/119	29
Pixel Form-Liners		33
Photo-Engraved Form-Liners		34-37
Po	2/70	15
Pommern	2/130	16
Provence	2/135	17

R		
Rába	2/176	26
Raba Hi-Lo	2/178	26
Red River	2/93	4
Reichenau	1/11	9
Reno	1/165 B	15
Rhein	2/47	22
Rhombus	2/120	29
Rhône	2/59	11
Ribble	2/217	31
Riffel 2-fach	2/118	28
Riffel 5-fach	2/117	28

Rio Bravo	2/92	4
Rio Grande	2/91	5
Rippe Type A	1/30	27
Rippe Type C	1/31	26
Rippe Type D	1/32	27
Rippe Type E	1/33	27
Rippe Type F	1/34	27
Rippe Type G	1/35	27
Rippe Type H	1/36	27
Rippe Type J	1/37 B	2
Rippe Type K	1/38 B	3
Rippe Type L	1/39	27
Rippe Type M	1/40	27
Rippe Type N	1/46	27
Rippe Type P	1/47	27
Riviera	1/134	24
Romanche	2/170	21
Rügen	1/12	12
Ruhr	2/48	10
Rustic	1/317	7

S		
Saale	2/49	13
Salzach	2/99	15
Sahara	2/750	24
Sambesi	2/104	4
Samara	2/203	30
Santa Cruz	2/173	21
Saône	2/602	32
Sardegna	1/44 B	14
Schiefer	2/145	18
Seeland	1/27	9
Shannon	1/127	17
Sicilia	1/45 B	3
Sieg	2/50	12
Simmental	2/185	30
Sinus 18/76	1/171	24
Sinus 27/100	1/172	24
Site Cast Examples		48-49
Solling	2/143	17
Somme	2/168	13
Spessart	2/144	8
Spree	2/51	8
Stack-Stone	2/710	22
Steiermark	2/180	30
Steinwald	2/156	20
Sumatra	2/239	18
Sylt	1/14	14

T		
Tarn	2/353	19
Taro	1/124 B	3
Taunus	2/132	5
Tejo	2/83	8
Tennessee	2/123	20
Terms & Conditions		69
Tessin	2/142	21
Tevere	2/62	4
Thames	2/61	10
Tigris	2/77	26
Tirari	2/227	7
Tirol	2/149	17
Tisa	2/73	6
Toscana	2/133	4
Traun	1/198	24
Trave	2/88	16
Travertin	2/90	20
Trent	2/167	8
Tunga	2/220	25

U		
Ural	2/74	8
Usedom	1/15	12

V		
Venezia	2/210	14
Ventanieue	2/711	7
Via Appia	2/160	19
Via Aurelia	2/238	18
Vienne	2/603	32
Vltava	2/98	10
Volta	2/208	30
Vosges	2/150 B	2

W		
Wallonie	2/196	19
Waterhaven	2/704	21
Weser	2/53	12
Westfalia	2/177	16
Wisla	2/63	25
Wollin	1/17	7

Y		
Yukon	2/122	20

Z		
Zyklop	2/311	18

Brick & Masonry Patterns	15-19
Stone & Rock Patterns	20-22
Geometric Patterns	22
Oriental & Eastern Patterns	23
Rib & Wave Patterns	24-27
Anti Slip Patterns	28-29

Trends Patterns	30-31
2.5D Form-Liners	32
Pixel Form-Liners	33
Photo-Engraved Form-Liners	34-37
Custom Form-Liners	38-43

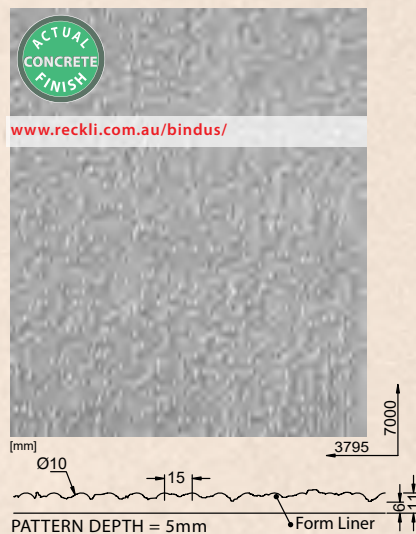
Broken Rib Patterns

Experience and Quality

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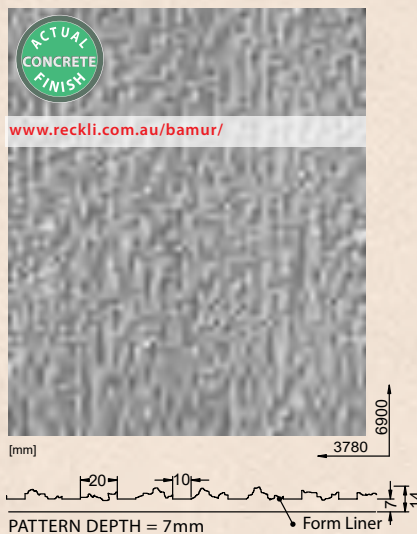
2/108 B-Indus

Named after a river in Asia



2/106 B-Amur

Named after a river in China



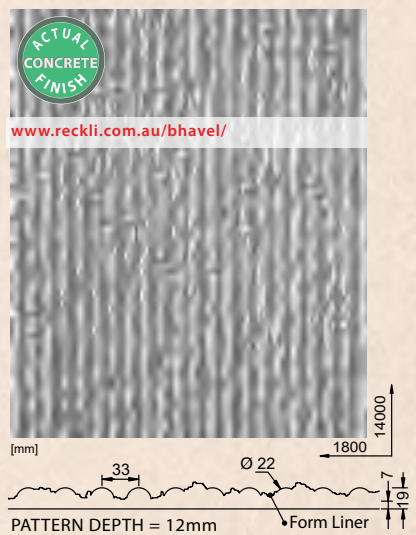
2/107 B-Mekong

Named after a river in Southeast Asia



2/30 B-Havel

Named after a river in Berlin



2/150 B-Vosges

Named after a river in Northeast France



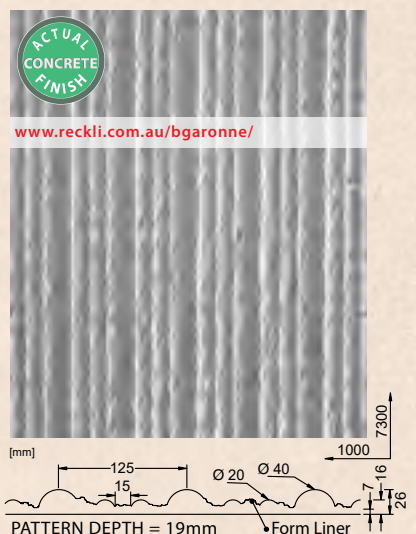
1/316 B-Pennsilva

Named after a village in the UK



2/56 B-Garonne

Named after a river in Southeast France

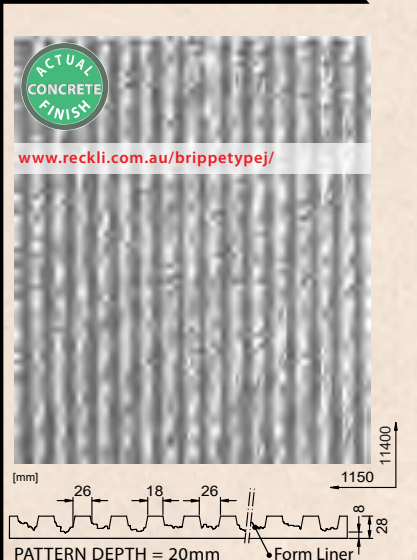


2/87 B-Ohio

Named after a river in Ohio USA



1/37 B-Rippe Type J


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Broken Rib Patterns

Experience and Quality

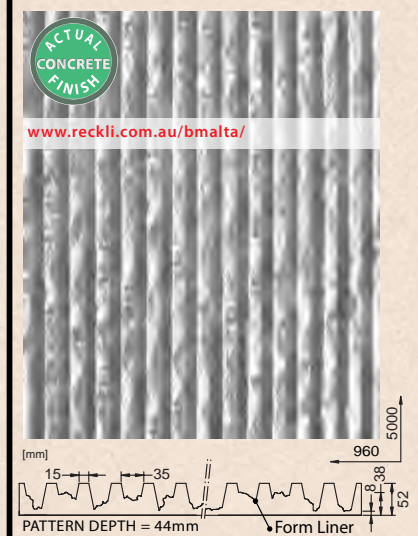
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1/38 B-Rippe Type K



1/21 B-Malta

Named after the Island



1/41 B-Ibiza

Named after an Island of Spain



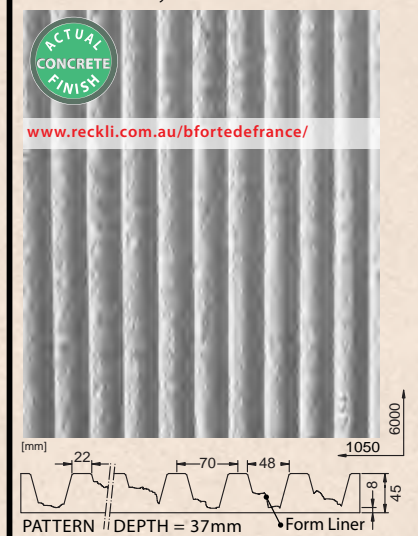
1/45 B-Sicilia

Named after an Island in Italy



1/347 B-Forte De France

Named after a city in Caribbean



1/29 Krete

Named after an Island of Greece



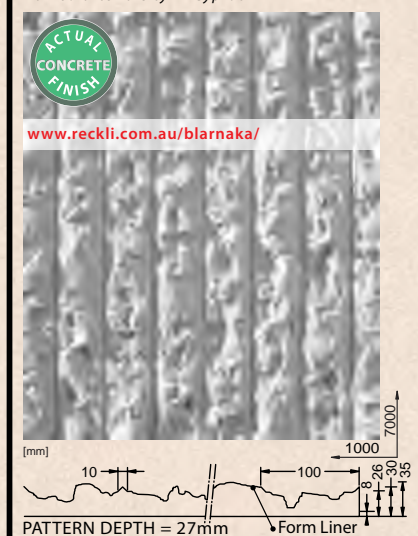
1/124 B-Taro

Named after an Island in Northern Italy



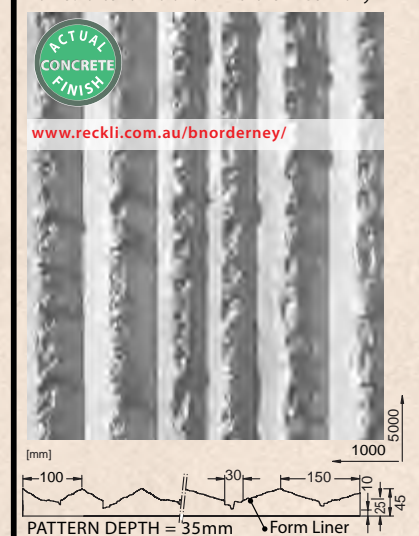
1/126 B-Larnaka

Named after a city in Cyprus



1/09 B-Norderney

Named after an Island in Northern Germany



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Rough Cast and Textured Patterns

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2/62 Tevere

Named after a river in Italy



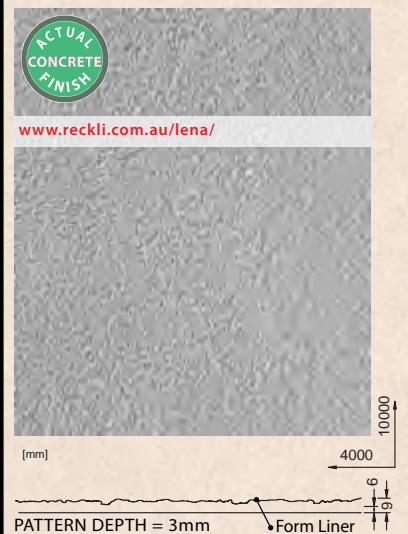
2/102 Parana

Named after a river in South America



2/103 Lena

Named after a river in Russia



2/93 Red River

Named after a river in Northern U.K



2/133 Toscana

Named after region in Italy



2/92 Rio Bravo

Named after a city in California



2/105 Euphrat

Named after a river in Eastern Asia



2/104 Sambesi

Named after a river in Africa



2/76 Nil

Named after a river in Egypt



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Rough Cast and Textured Patterns

Experience and Quality

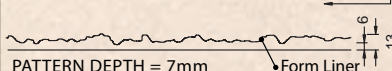
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2/91 Rio Grande

Named after a river in Mexico


www.reckli.com.au/riogrande/


[mm] 3900 6000

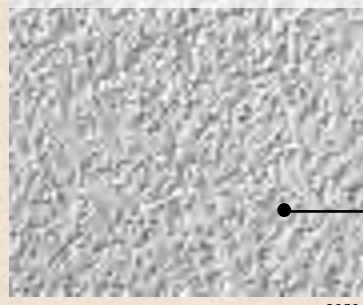


PATTERN DEPTH = 7mm

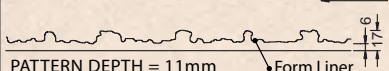
Form Liner

2/69 Marne

Named after a river in France


www.reckli.com.au/marne/


[mm] 3950 10000



PATTERN DEPTH = 11mm

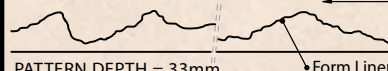
Form Liner

2/235 Kerry

Named after a county in Ireland


www.reckli.com.au/kerry/


[mm] 1975 4975



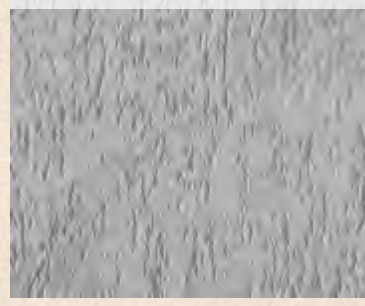
PATTERN DEPTH = 33mm

Form Liner

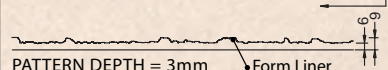
**NEW
2020**

2/34 Lahn

Named after a river in Germany


www.reckli.com.au/lahn/


[mm] 7000 3000



PATTERN DEPTH = 3mm

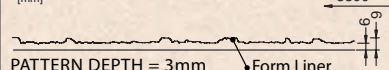
Form Liner

2/131 Lausitz

Named after a region in Eastern Germany


www.reckli.com.au/lausitz/


[mm] 3800 7200



PATTERN DEPTH = 3mm

Form Liner

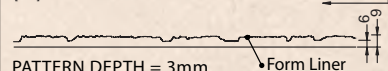


2/33 Isar

Named after a river in Northern Germany


www.reckli.com.au/isar/


[mm] 7000 3000

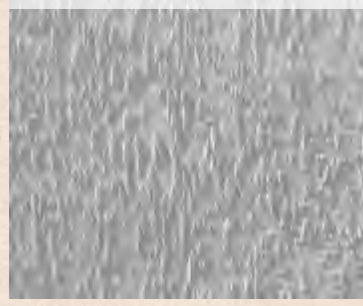


PATTERN DEPTH = 3mm

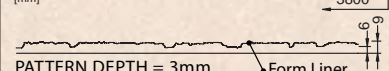
Form Liner

2/132 Taunus

Named after a region in Southwest Germany


www.reckli.com.au/taunus/


[mm] 3800 7200



PATTERN DEPTH = 3mm

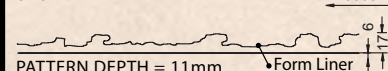
Form Liner

2/68 Arno

Named after a river in Italy


www.reckli.com.au/arno/


[mm] 10000 4000



PATTERN DEPTH = 11mm

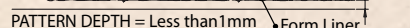
Form Liner

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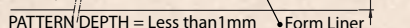
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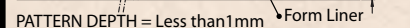
Named after a river in Germany



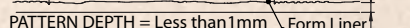
Named after a river in Germany



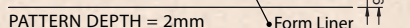
Named after a river in Northern Germany



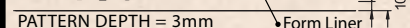
Named after a river in Northern Germany



Named after a river in Central Europe



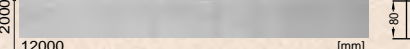
Named after a river in Central Europe



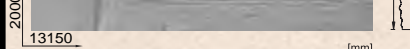
Named after a river in Southwest USA



Named after an island in Indonesia



Named after a river in Canada



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Wood Patterns

Experience and Quality

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2/84 Missouri

Named after a river in USA



1/317 Rustic

Named after a city in France



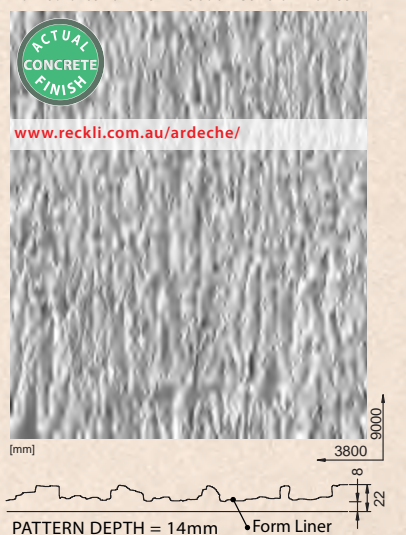
2/27 Ems

Named after a river in Northwest Germany



2/116 Ardeche

Named after a river in South Central France



2/227 Tirari

Named after a desert in central Australia



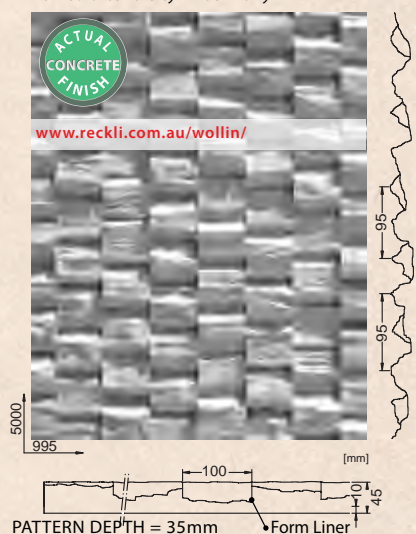
2/28 Emscher

Named after a river in Germany



1/17 Wollin

Named after a city in Germany



2/152 Martinique

Named after an Island in France



2/711 Ventanique

Named after a city in France



Wood Patterns

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2/97 Kongo

Named after a Geographical area in Africa



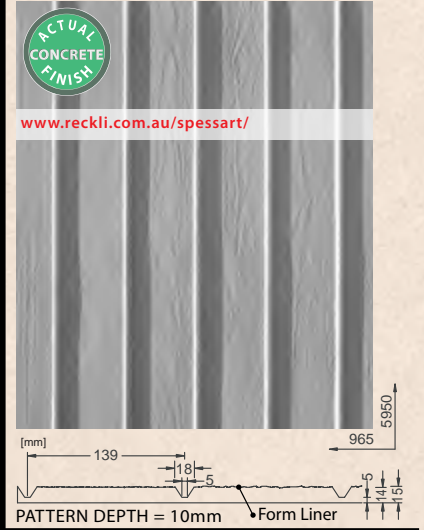
2/83 Tejo

Named after a river in Brazil



2/144 Spessart

Named after a region in Southwest Germany



2/25 Eder

Named after a river in Germany



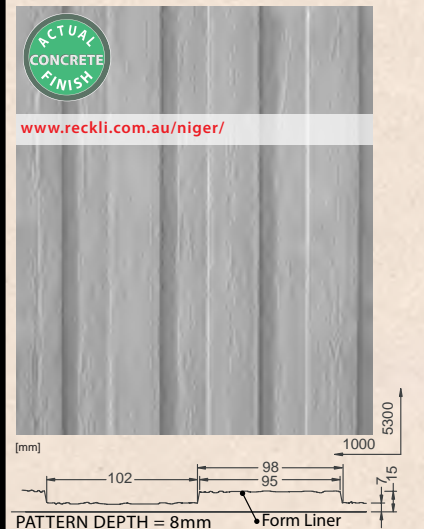
2/167 Trent

Named after a river in Canada



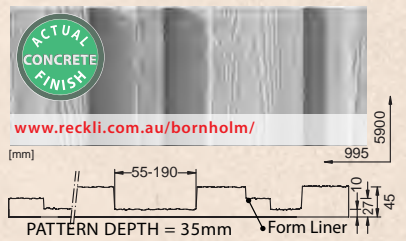
2/96 Niger

Named after a river in Western Africa



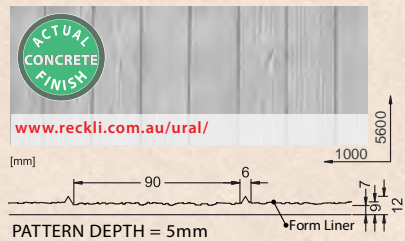
1/18 Bornholm

Named after an Island in Denmark



2/74 Ural

Named after a river in Russia



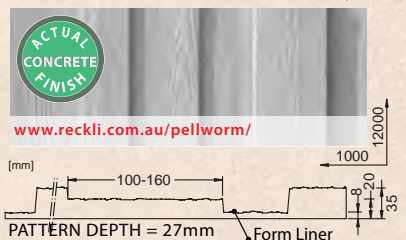
2/51 Spree

Named after a river in Central Europe



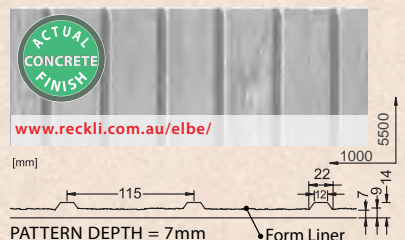
1/10 Pellworm

Named after an Island in Northern Germany



2/26 Elbe

Named after a river in Russia



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1/331 Etampes

Named after a city in France



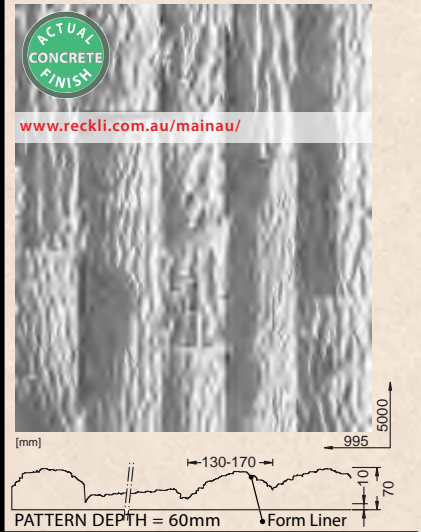
1/07 Langeoog

Named after an Island in Germany



1/08 Mainau

Named after an Island in Germany



1/03 Fehmarn

Named after an Island in Germany



1/04 Fohr

Named after an Island in Germany



1/24 Gotland

Named after an Island in Sweden



1/11 Reichenau

Named after an Island in Germany



1/27 Seeland

Named after an Island in Switzerland



1/28 Lolland

Named after an Island in Denmark



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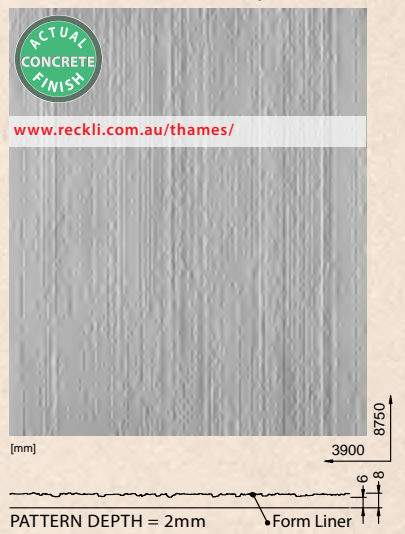
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2/61 Thames

Named after a river in South England



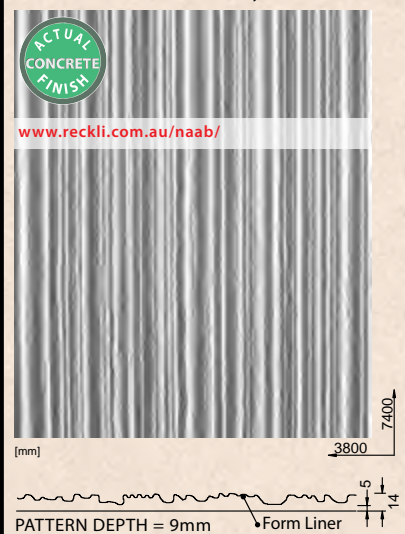
2/37 Lenne

Named after a river in Germany



2/42 Naab

Named after a river in Germany



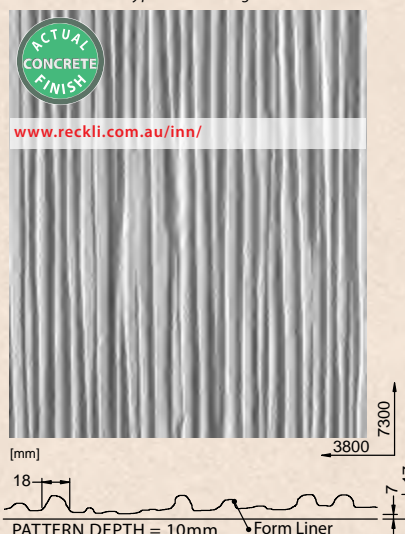
2/31 Iller

Named after a river in Germany



2/32 Inn

Named after a type of building



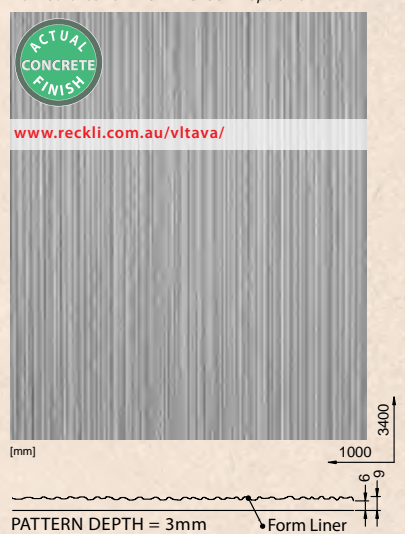
2/48 Ruhr

Named after a region in Western Germany



2/98 Vltava

Named after a river in Czech Republic



2/237 Java

Named after an island in Indonesia



2/337 Miramas

Named after a region in South France


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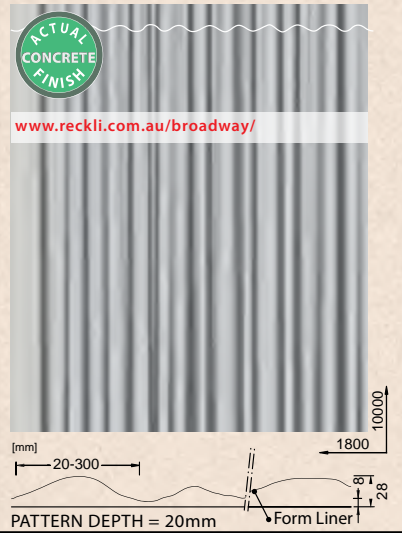
2/241 Hawaii

Named after the 50th state of USA



2/702 Broadway

Named after a theatrical area in New York



2/169 Columbia

Named after a province in Western Canada



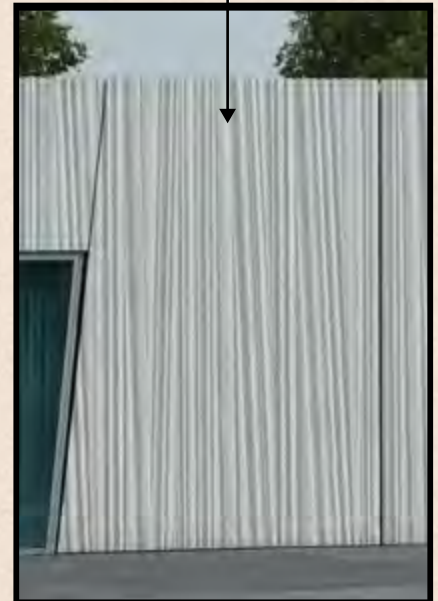
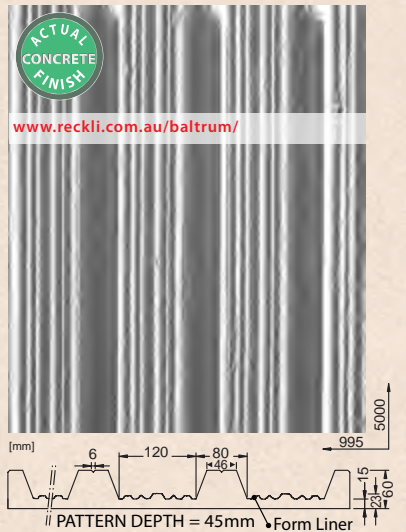
2/701 Liberty

Named after a statue in New York



1/25 Baltrum

Named after an Island in Northwest Germany



2/44 Neckar

Named after a river in Germany



2/59 Rhone

Named after a river in Europe



1/26 Ameland

Named after an Island in Netherlands



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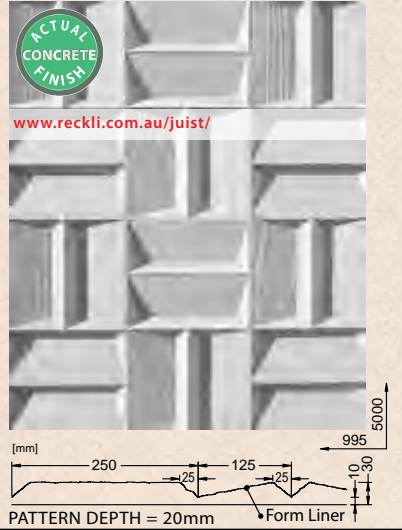
1/05 Helgoland

Named after an Island in Northern Germany



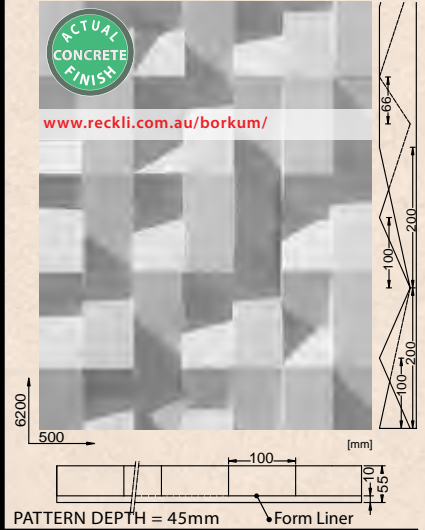
1/06 Juist

Named after an Island in Northwest Germany



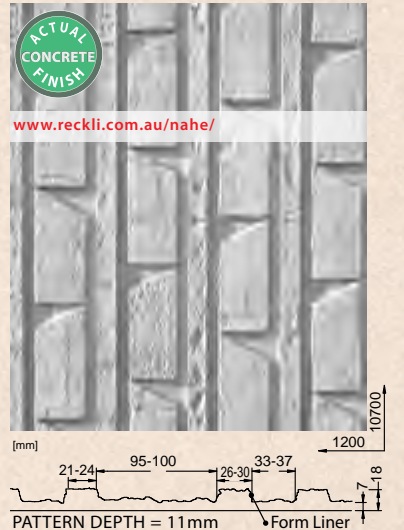
1/02 Borkum

Named after an Island in Northwest Germany



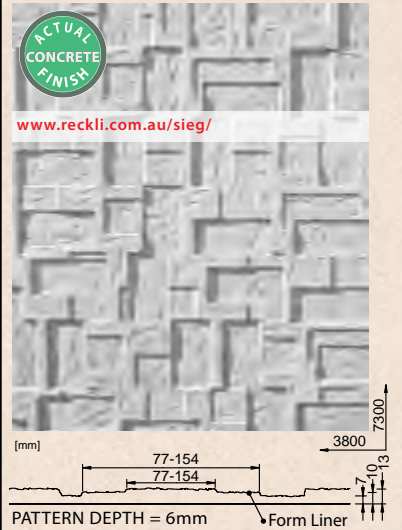
2/43 Nahe

Named after a river in Germany



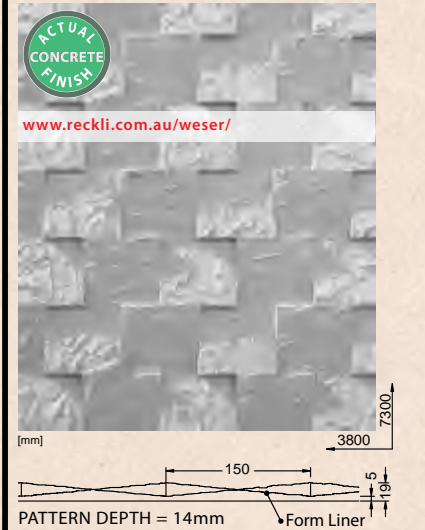
2/50 Sieg

Named after a river in Germany



2/53 Weser

Named after a river in Northwest Germany



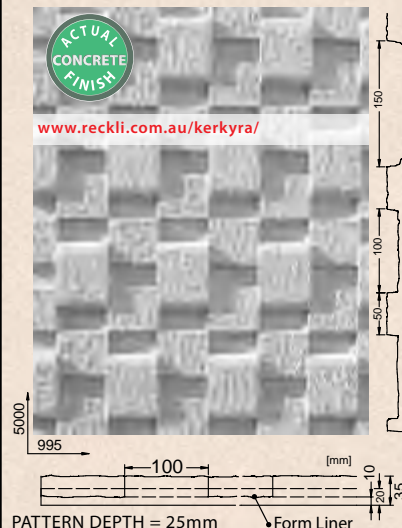
1/12 Rugen

Named after an Island in Northeast Germany



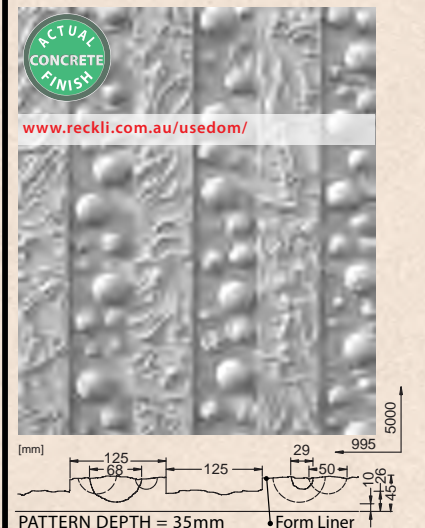
1/20 Kerkyra

Named after an Island of Greece



1/15 Usedom

Named after an Island in Northeast Germany


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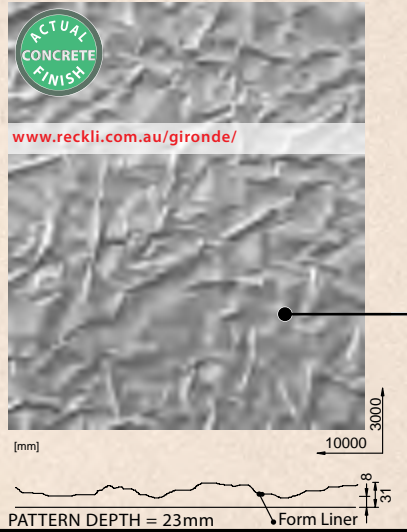
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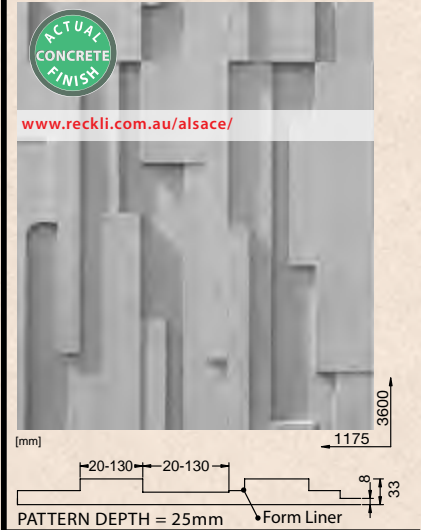
2/151 Gironde

Named after a river in France



1/138 Alsace

Named after a region in France



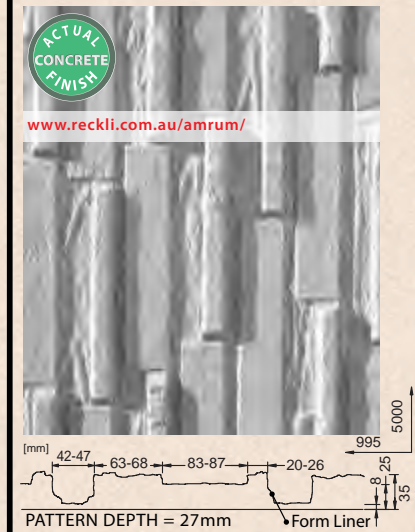
2/125 Dordogne

Named after a river in France



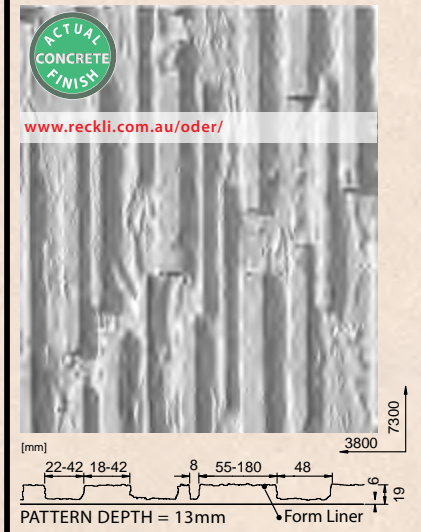
1/01 Amrum

Named after an Island in Northern Germany



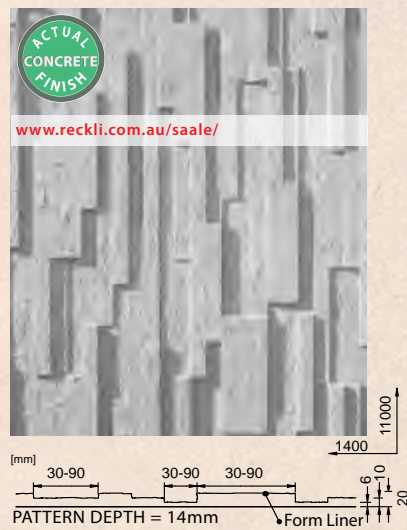
2/45 Oder

Named after a river in Central Europe



2/49 Saale

Named after a river in Germany



2/57 Loire

Named after a river in France



2/168 Somme

Named after a region in France



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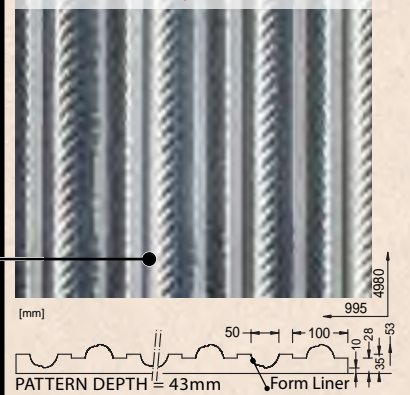


1/14 Sylt

Named after an Island in Northern Germany



www.reckli.com.au/sylt/

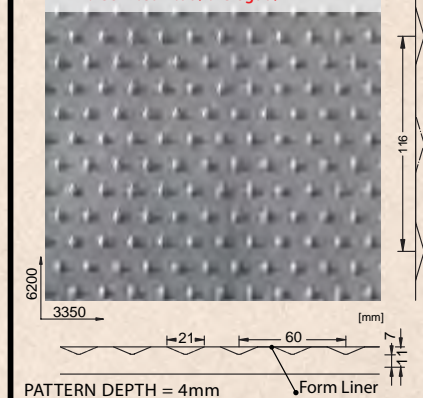


2/174 Breisgau

Named after a region in Southwest Germany



www.reckli.com.au/breisgau/

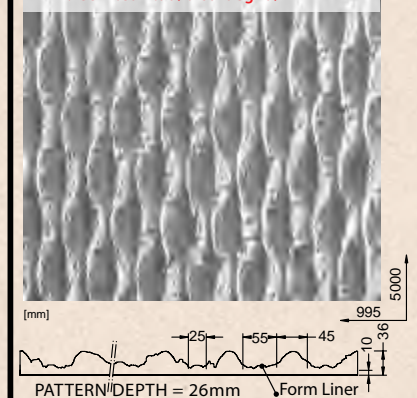


1/44 B-Sardegna

Named after an Island in West Coast of Italy



www.reckli.com.au/b-sardegna/



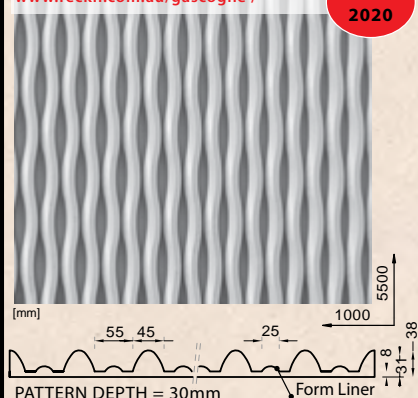
1/174 Gascogne

Named after a river in Southeast Asia?



www.reckli.com.au/gascogne/

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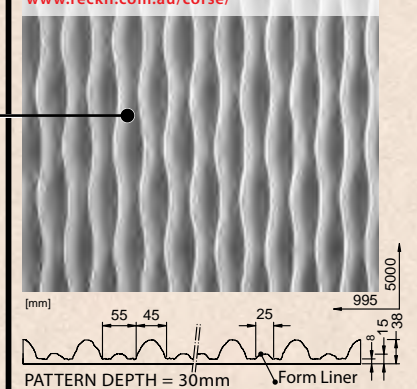


1/43 Corse

Named after an Island in Southeast France

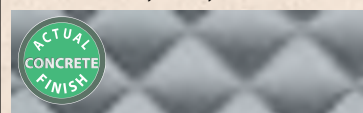


www.reckli.com.au/corse/

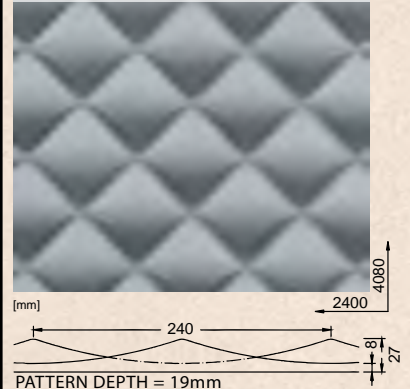


2/210 Venezia

Named after a city in Italy



www.reckli.com.au/venezia/



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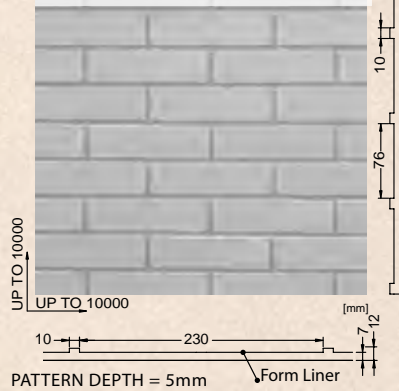
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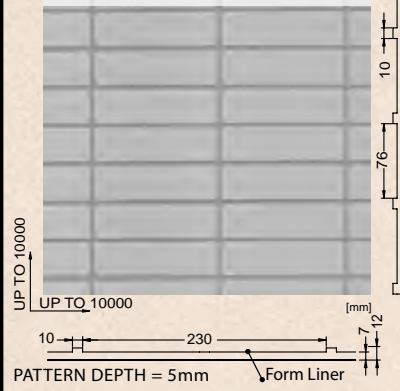
2/719 Ausbrick 10/10 Stretcher-Bond

Named after an Australian Brick Pattern


www.reckli.com.au/stretcherbondausbrick/


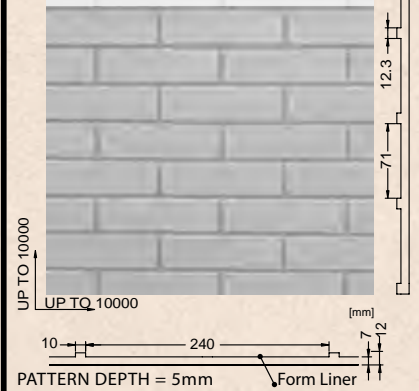
2/718 Ausbrick 10/10 Stack-Bond

Named after an Australian Brick Pattern


www.reckli.com.au/stackbondausbrick/


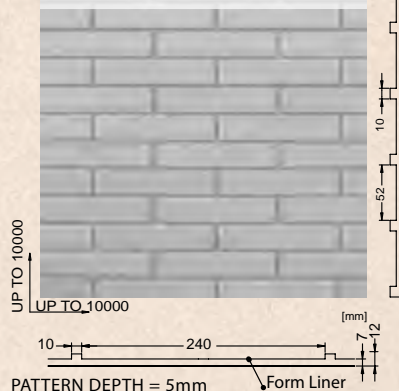
2/99 Salzach

Named after a river in Austria


www.reckli.com.au/salzach/


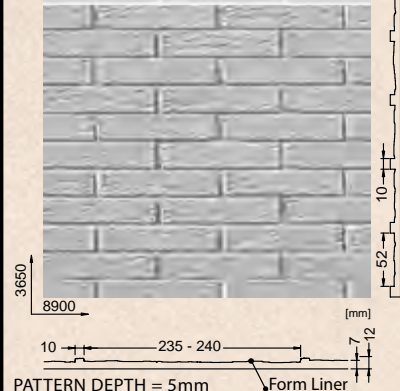
2/65 Drau

Named after a river in Central Europe


www.reckli.com.au/drau/


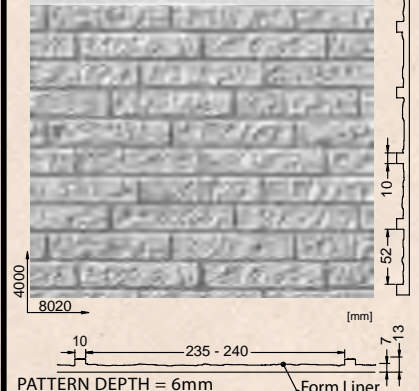
2/40 Mohne

Named after a lake in Northern Germany


www.reckli.com.au/mohne/


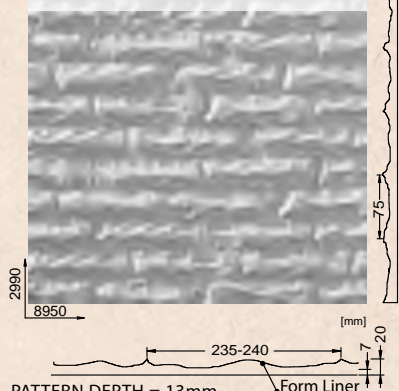
2/70 Po

Named after a river in Italy


www.reckli.com.au/po/


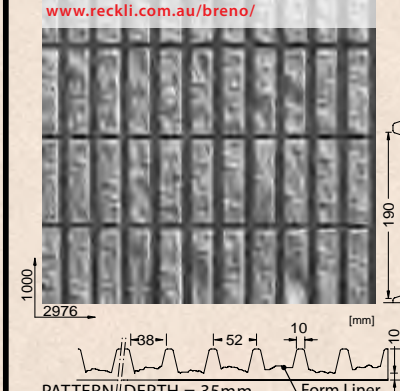
2/39 Main

Named after a river in Germany


www.reckli.com.au/main/


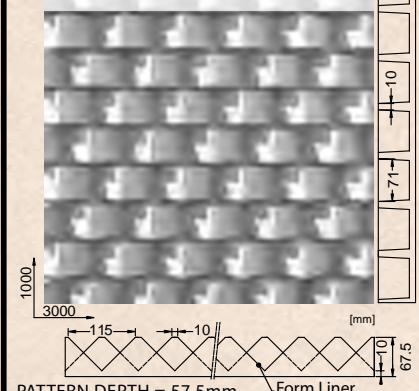
1/165 B Reno

Named after a river in Northern Italy


www.reckli.com.au/breno/


2/141 Dachstein

Named after a mountain in Austria


www.reckli.com.au/dachstein/


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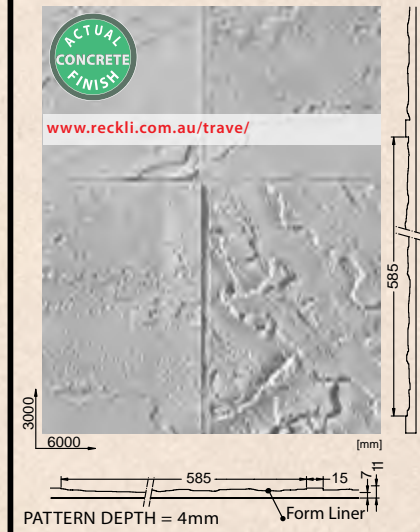
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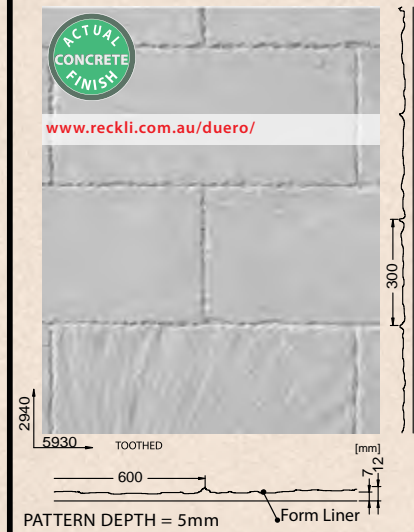
2/88 Trave

Named after a river in Germany



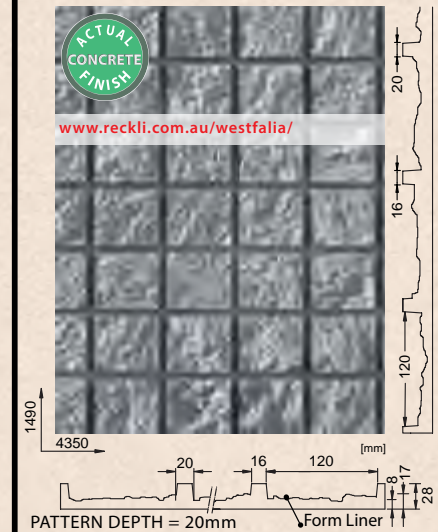
2/89 Duero

Named after a river in Portugal



2/177 Westfalia

Named after a region in Germany



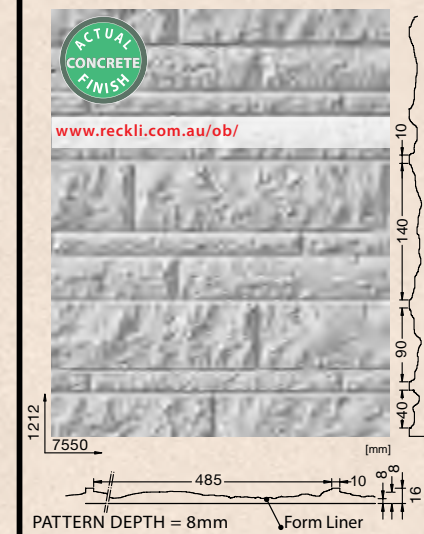
2/140 Camargue

Named after a region in France



2/72 Ob

Named after a river in Russia



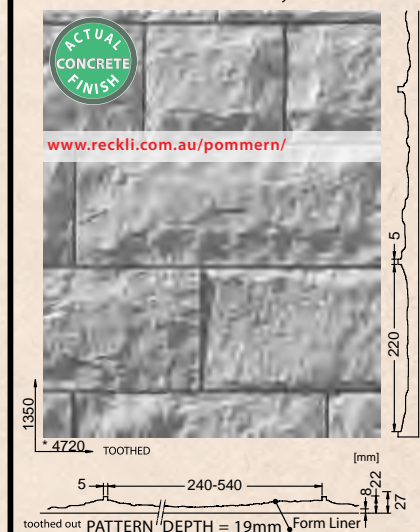
2/219 Mersey

Named after a river in North-West England



2/130 Pommern

Named after a river in Germany



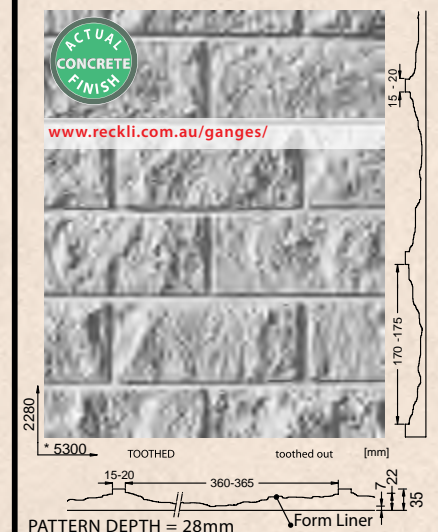
2/128 Hudson

Named after a river in USA



2/78 Ganges

Named after a river in India


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2/143 Solling

Named after a region in France



2/147 Allgau

Named after a region in South Germany



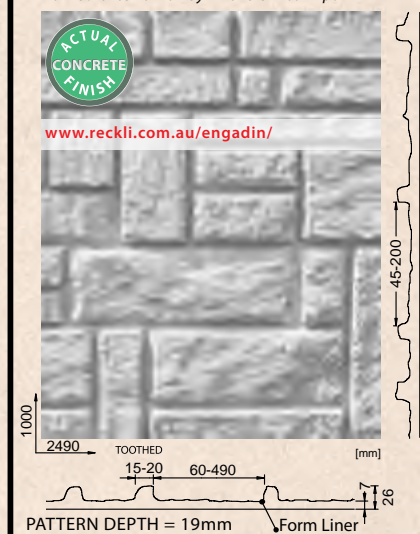
2/149 Tirol

Named after a region in Austria



2/312 Engadin

Named after a Valley in the Swiss Alps



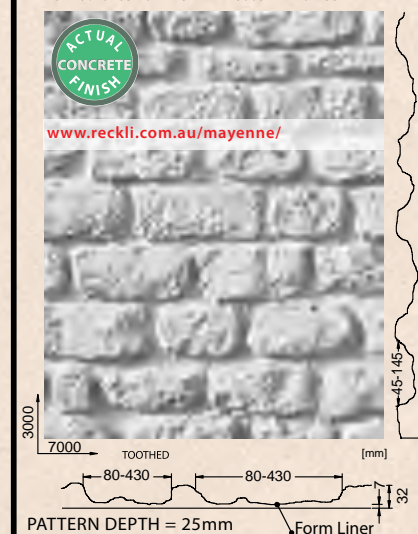
2/139 Auvergne

Named after a region in France



2/79 Mayenne

Named after a river in Western France



1/127 Shannon

Named after a river in Ireland



2/135 Provence

Named after a region in Southeast France



2/137 Bourgogne

Named after a region in France



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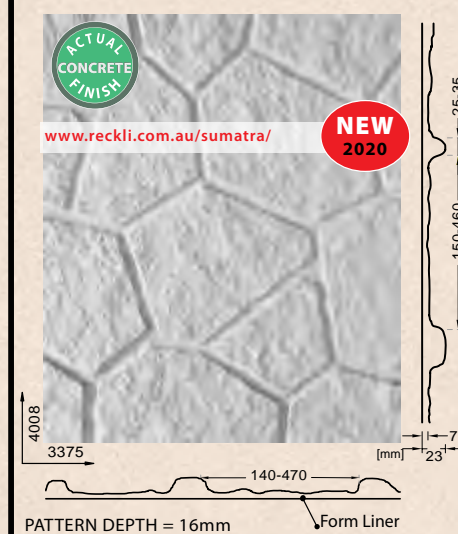
2/311 Zyklus

Named after a type of German wall pattern



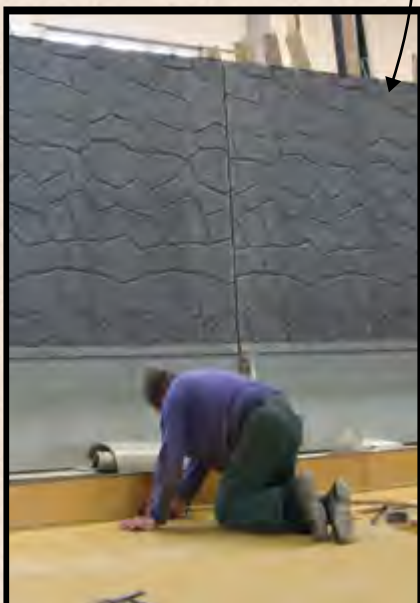
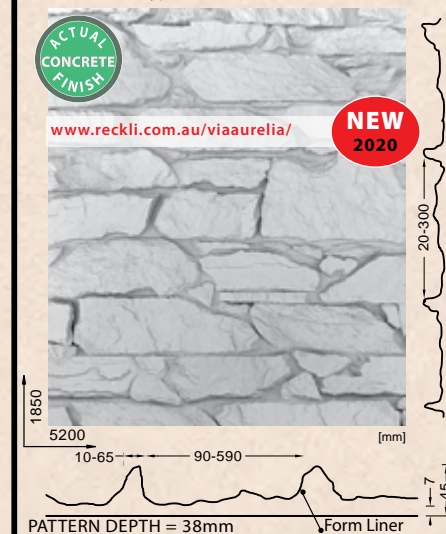
2/239 Sumatra

Named after a island in Western Indonesia



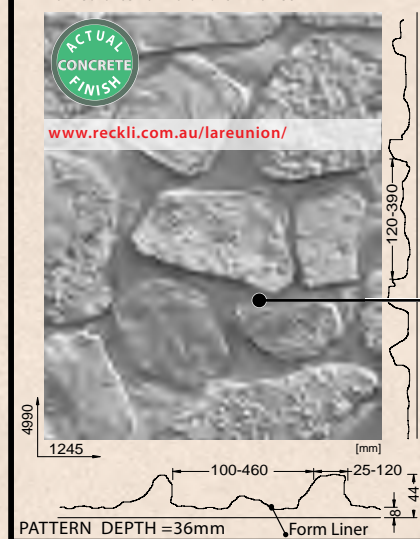
2/238 Via Aurelia

Named after a type of a Roman road



2/374 La Reunion

Named after an Island of France



2/375 Mordialloc

Named after a seaside suburb in Melbourne



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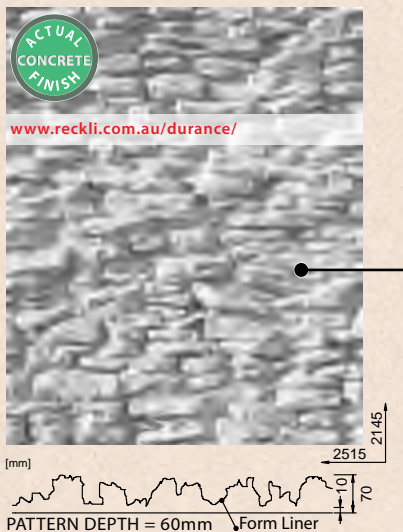
2/161 Esterel

Named after a mountain range in France



1/354 Durance

Named after a river in Southeast France



2/196 Wallonie

Named after a region in South Belgium



2/353 Tarn

Named after a river in France



2/160 Via Appia

Named after an old Roman roadway



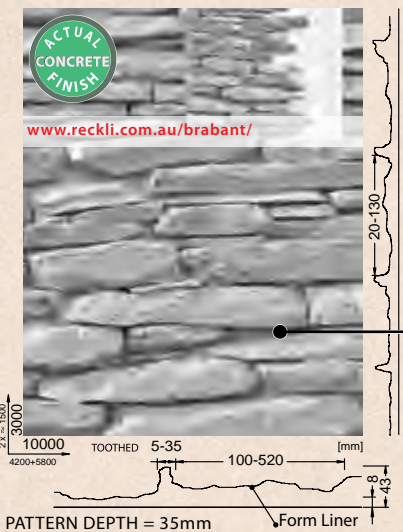
2/146 Andalucia

Named after a region in Spain



2/164 Brabant

Named after a region in Belgium



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Stone and Rock Patterns

Experience and Quality

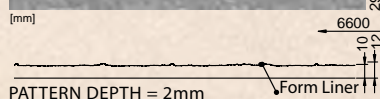
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2/166 Cilento

Named after a region in Italy



www.reckli.com.au/cilento/

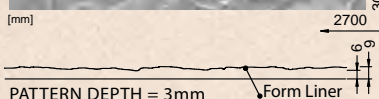


2/123 Tennessee

Named after a river in USA



www.reckli.com.au/tennessee

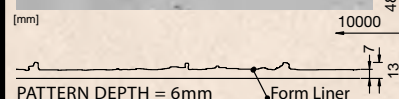


2/90 Travertin

Named after a form of limestone



www.reckli.com.au/travertin/



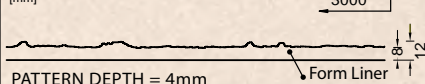
2/209 Newa

Named after a Nepalese type of language



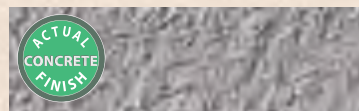
www.reckli.com.au/newa/

**NEW
2020**

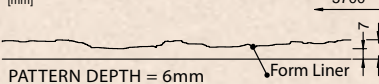


2/318 Pierre de Sable

Named after a city in France

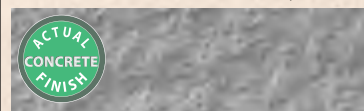


www.reckli.com.au/pierredesable/

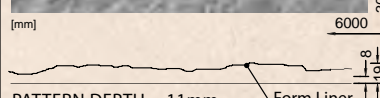


2/157 Fitchelberg

Named after a Mountain in Germany



www.reckli.com.au/fitchelberg/

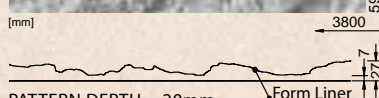


2/122 Yukon

Named after a river in Alaska

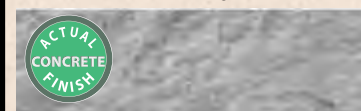


www.reckli.com.au/yukon/

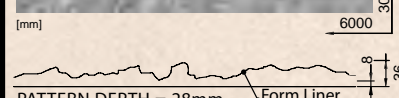


2/156 Steinwald

Named after a Mountain range in South Germany



www.reckli.com.au/steinwald/



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Stone and Rock Patterns

Experience and Quality

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2/158 Bavaria

Named after a region in Germany



2/121 Cheyenne

Named after a river in USA



2/173 Santa Cruz

Named after a city in California



2/41 Mosel

Named after a river in Germany



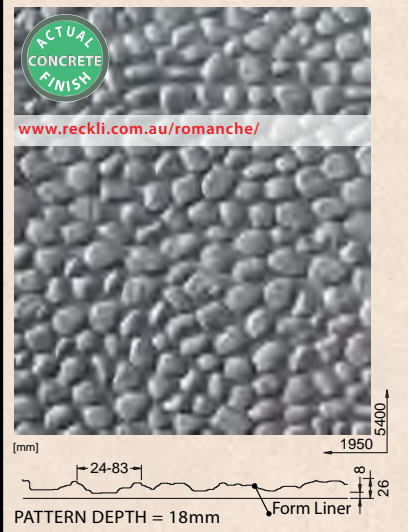
2/142 Tessin

Named after a town in Germany



2/170 Romanche

Named after a river in Southeast France



2/704 Waterhaven

Named after an area in Southwest Melbourne



2/136 Bretagne

Named after a region in Northwest France



1/352 Embrun

Named after a town in Southeast France



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Stone and Rock Patterns

Geometric Patterns *Experience and Quality*

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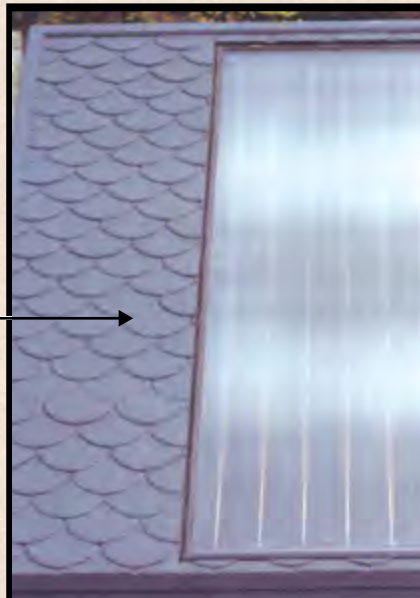
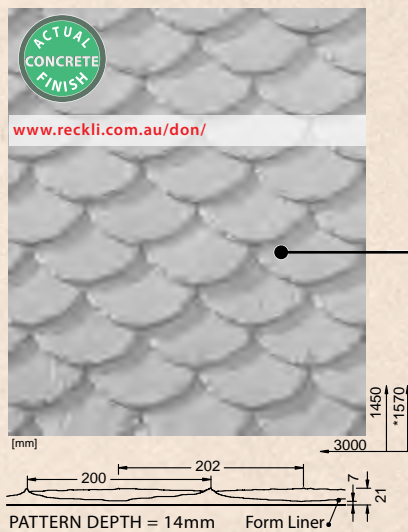
TEL: 1800 176 044

E australia@reckli.com.au

W www.reckli.com.au

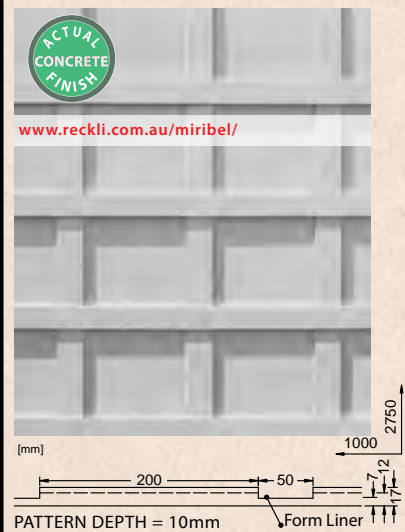
2/71 Don

Named after a river in Russia



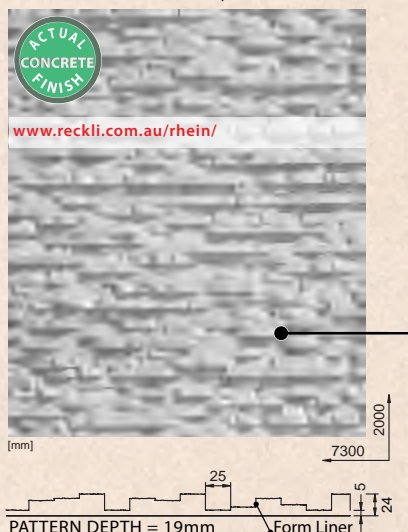
2/340 Miribel

Named after a region in Eastern France



2/47 Rhein

Named after a river in Europe



2/710 Stack-Stone



2/327 Aurillac

Named after a region in France



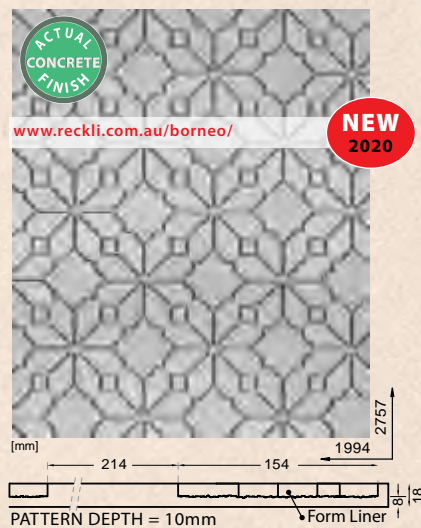
Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
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Oriental and Eastern Patterns

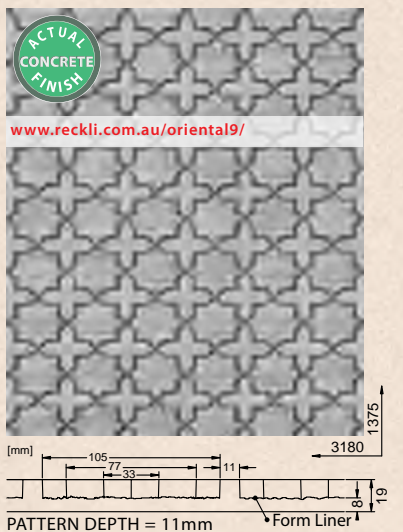
Experience and Quality
National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia **TEL:** 1800 176 044 **E** australia@reckli.com.au **W** www.reckli.com.au

2/242 Borneo

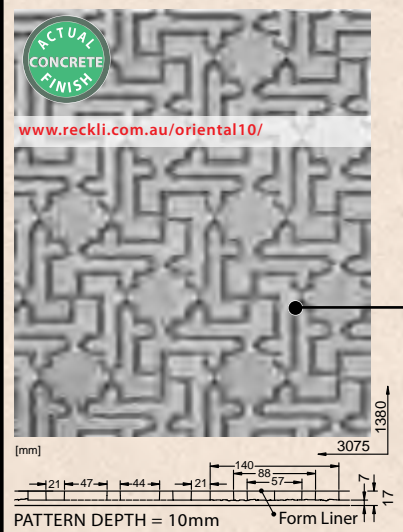
Named after an island in Indonesia



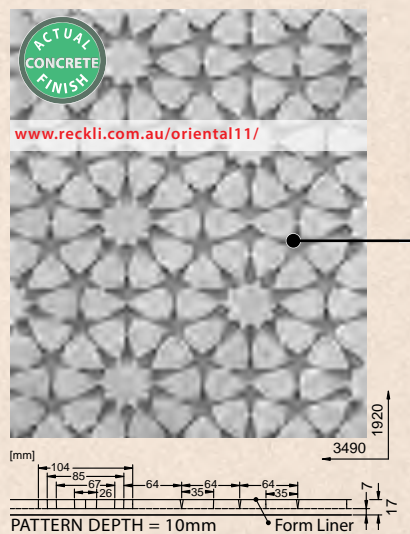
2/109 Oriental 9



2/110 Oriental 10



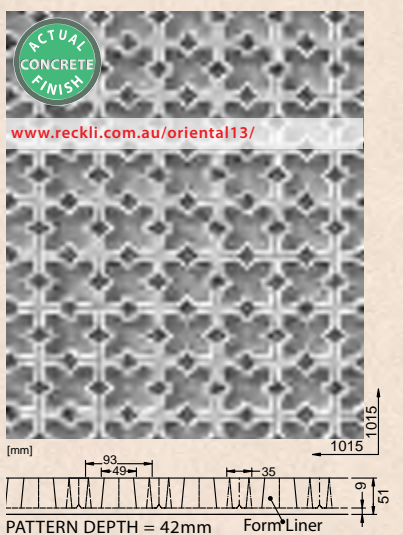
2/111 Oriental 11



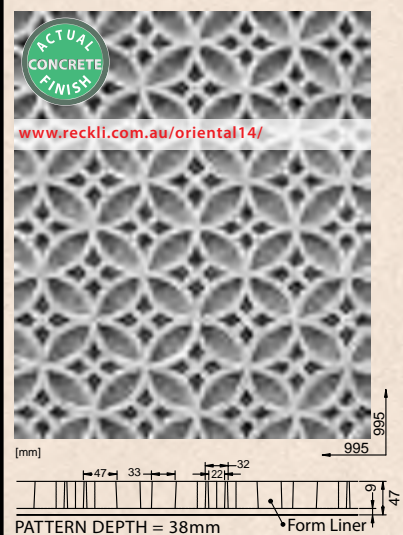
2/112 Oriental 12



2/113 Oriental 13



2/114 Oriental 14



Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
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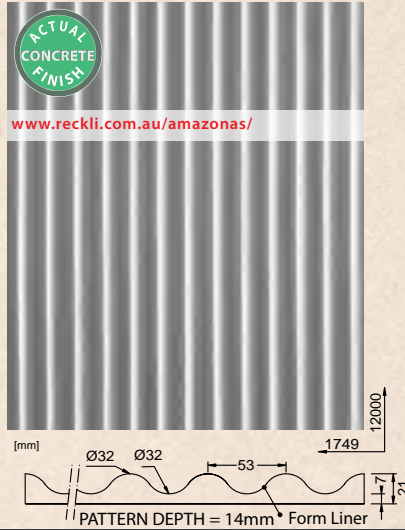
Rib and Wave Patterns

Experience and Quality

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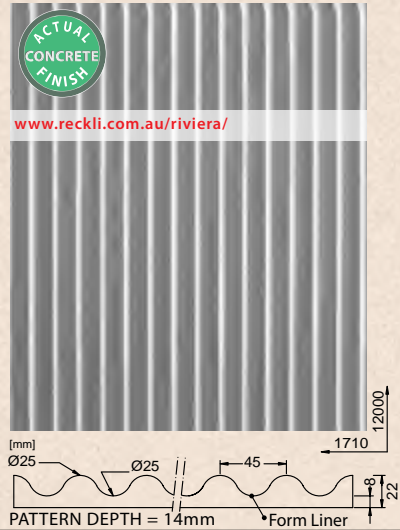
2/95 Amazonas

Named after a region in Peru



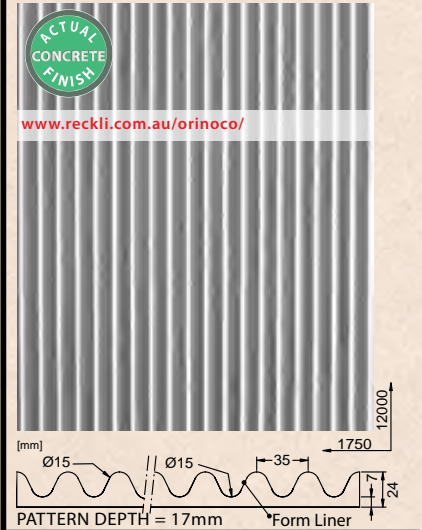
1/134 Riviera

Named after a region in Italy



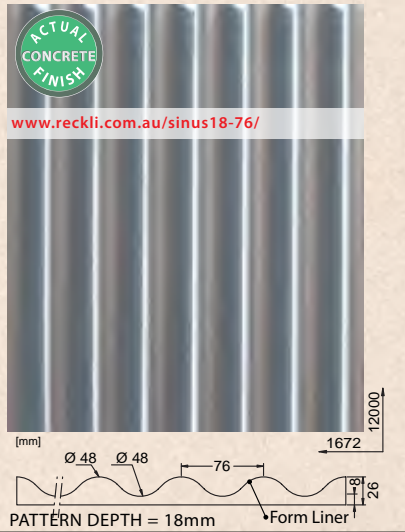
2/94 Orinoco

Named after a river in South America



1/171 Sinus 18/76

Latin for "Wave"



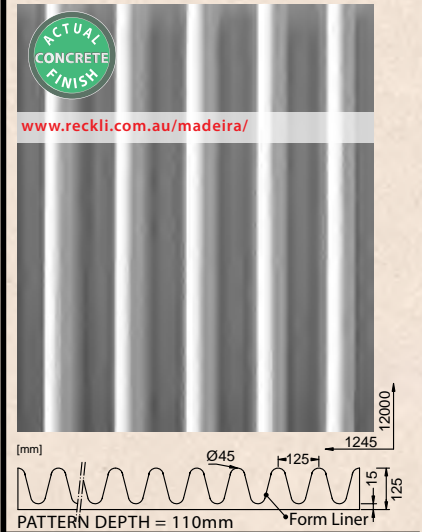
1/172 Sinus 27/100

Latin for "Wave"



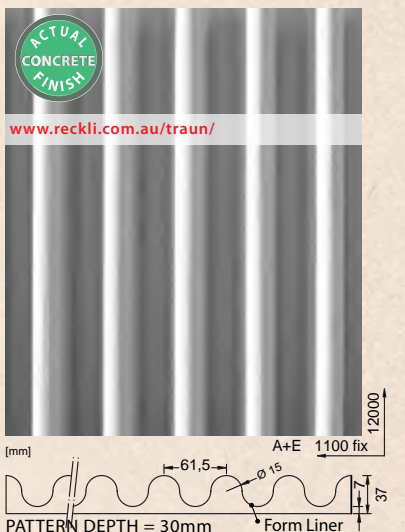
1/42 Madeira

Named after a region in Portugal



1/198 Traun

Named after a region in Austria



2/175 Friesland

Named after a region in Northern Netherlands



2/750 Sahara

Named after a desert in Northern Africa



Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
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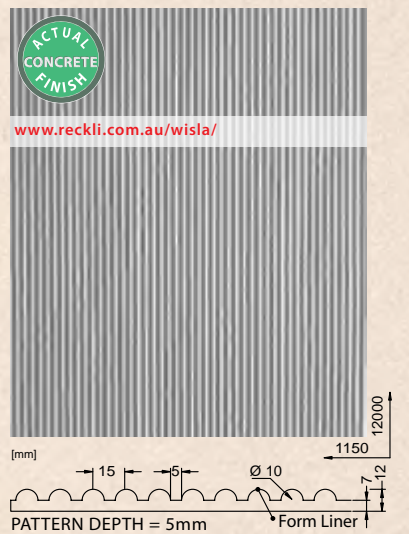
Rib and Wave Patterns

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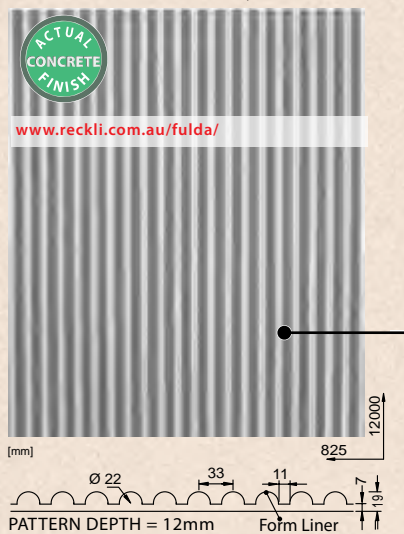
2/63 Wisla

Named after a town in Poland



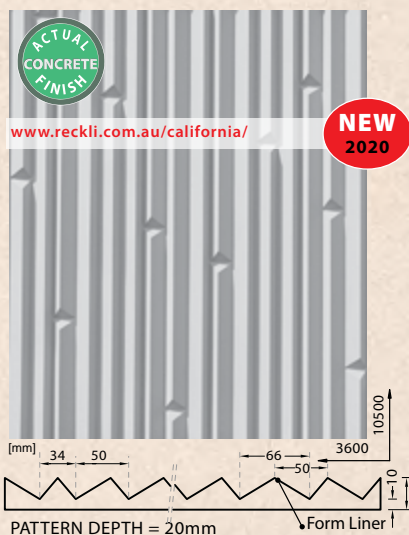
2/29 Fulda

Named after a river in Germany



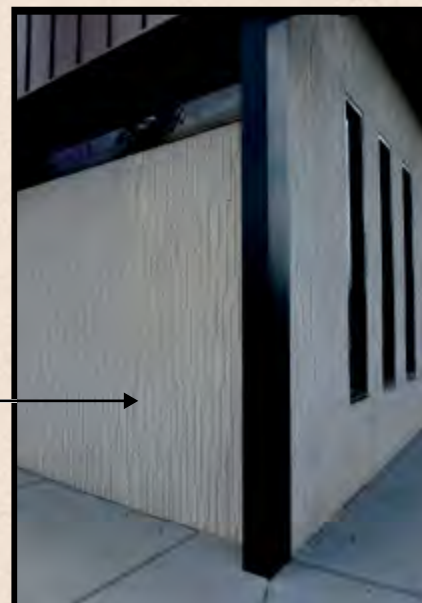
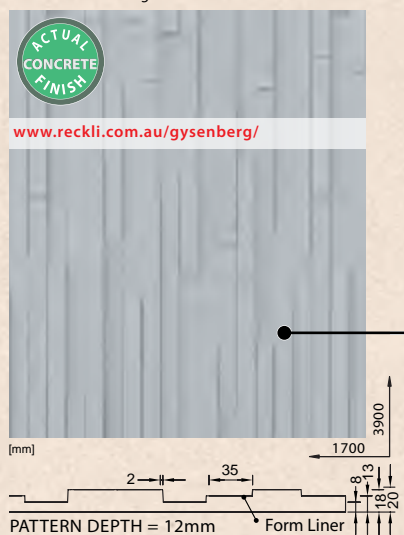
2/236 California

Named after a state of Western Nth America



2/195 Gysenberg

Named after a region in Austria



2/220 Tunga

Named after a Brazilian Sculptor



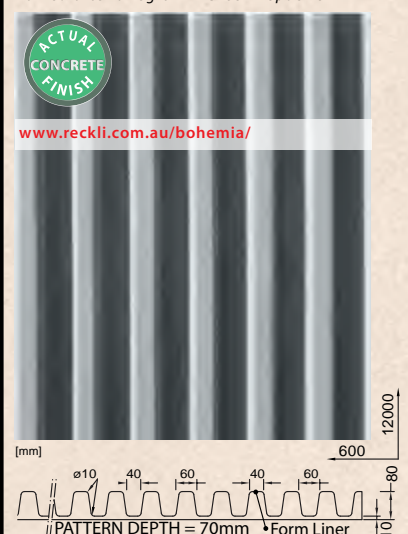
2/197 Holledau

Named after a region in Central Germany



1/199 Bohemia

Named after a region in Czech Republic


 Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
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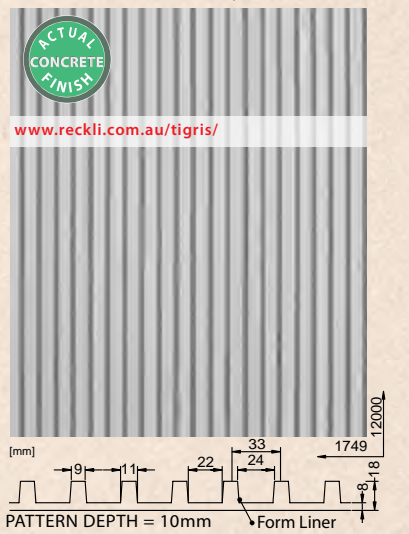
Rib and Wave Patterns

Experience and Quality

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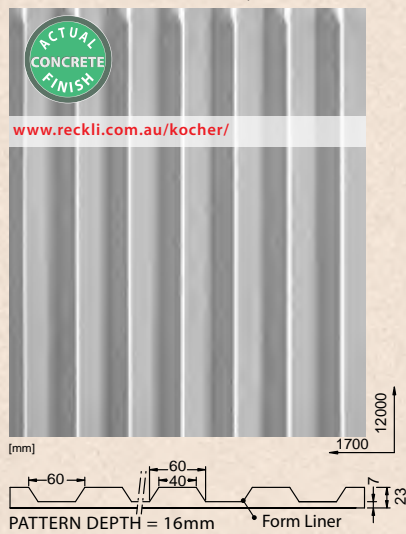
2/77 Tigris

Named after a River in Turkey



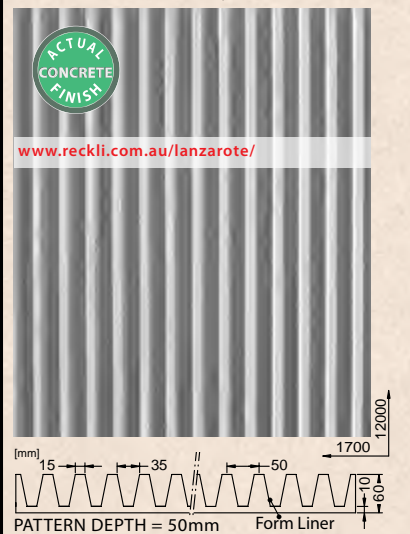
2/75 Kocher

Named after a river in Germany



1/148 Lanzarote

Named after an Island in Spain



2/178 Raba Hi-Lo

Named after a river in Austria



2/177 Half Raba

Named after a river in Austria



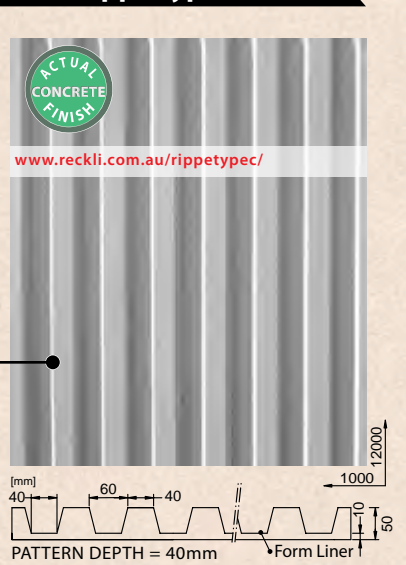
2/176 Raba

Named after a river in Austria



1/31 Rippe Type C

1/31 Rippe Type C



2/176 Raba

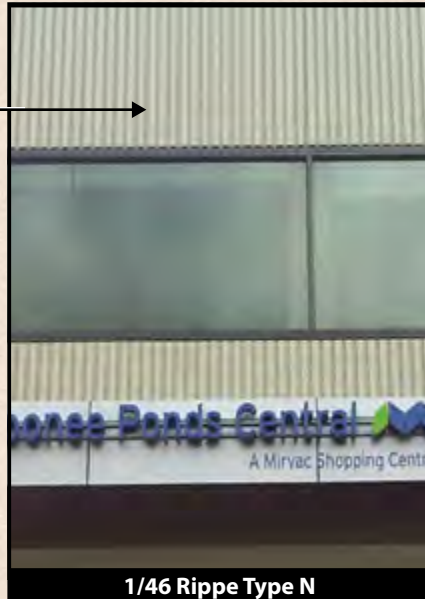
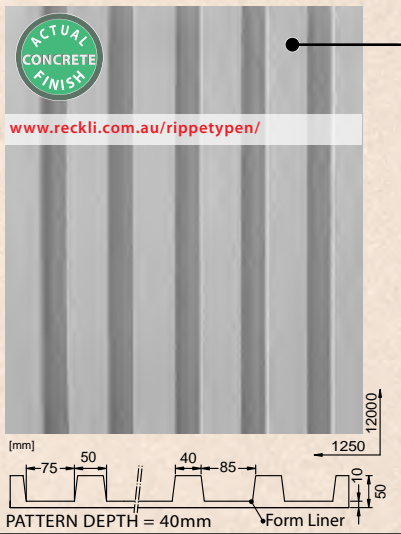
Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
All patterns on this page are available within 1.5 weeks in platinum grade rubber Ex-Melbourne (Made in Melbourne)

Rib and Wave Patterns

Experience and Quality

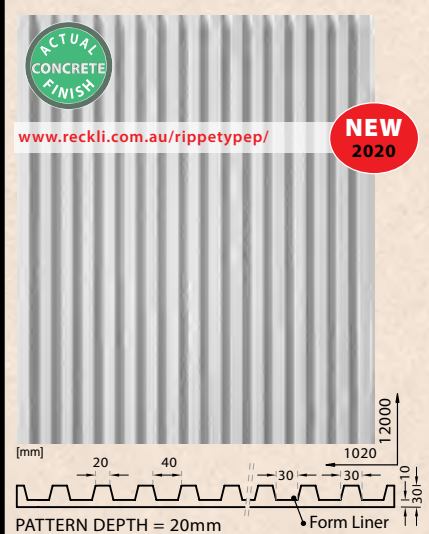
National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia TEL: 1800 176 044 E australia@reckli.com.au W www.reckli.com.au

1/46 Rippe Type N

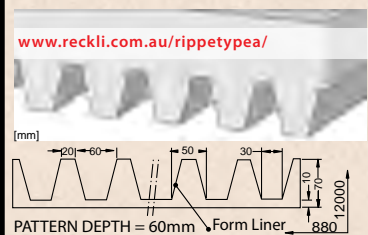


1/46 Rippe Type N

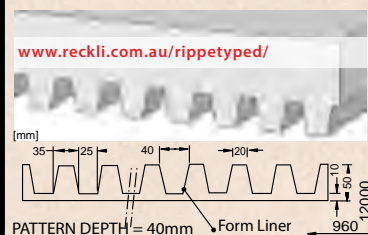
1/47 Rippe Type P



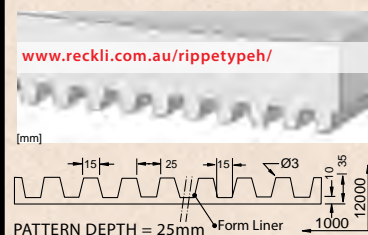
1/30 Rippe Type A



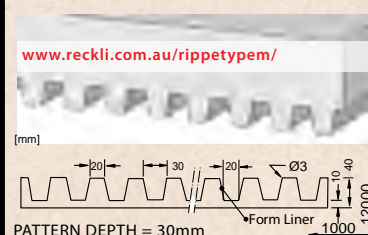
1/32 Rippe Type D



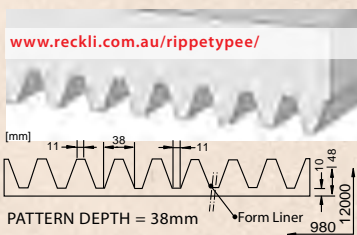
1/36 Rippe Type H



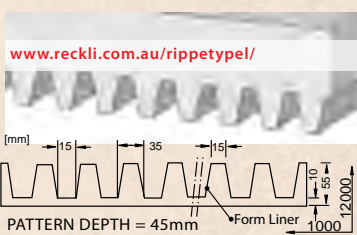
1/40 Rippe Type M



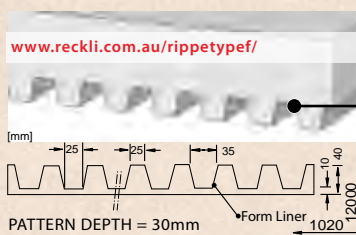
1/33 Rippe Type E



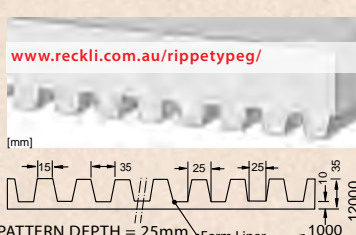
1/39 Rippe Type L



1/34 Rippe Type F



1/35 Rippe Type G



SEE PHOTO ON PAGE 25

See specs on page 26

Anti Slip Patterns

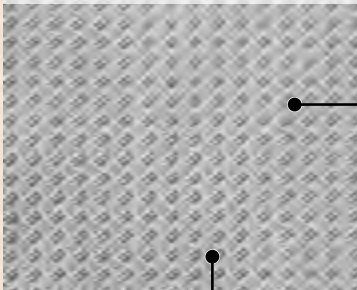
Experience and Quality

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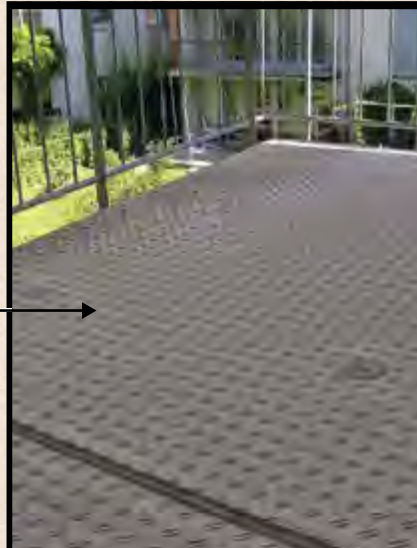
2/118 Riffel 2-Fach



www.reckli.com.au/riffel2fach/



PATTERN DEPTH = 2mm
Form Liner

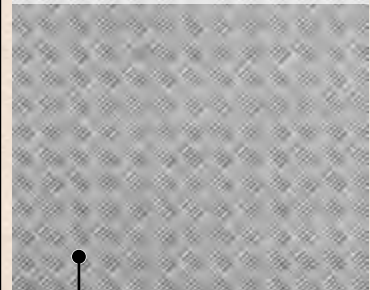


2/118 Riffel 2-Fach

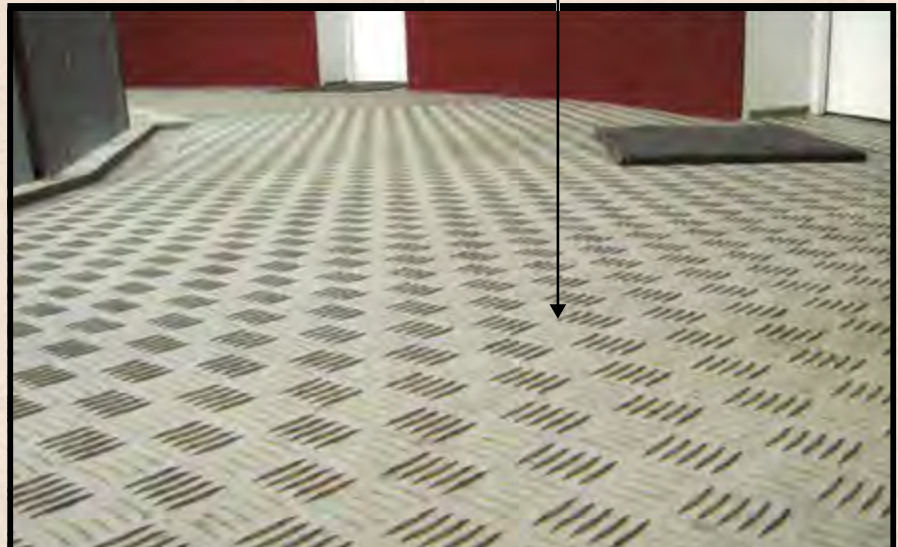
2/117 Riffel 5-Fach



www.reckli.com.au/riffel5fach/



PATTERN DEPTH = 2mm
Form Liner



2/117 Riffel 5-Fach



2/118 Riffel 2-Fach



2/178 Anti Slip (See spec on page 29)



2/120 Rhombus Step Treads (See spec on page 29)

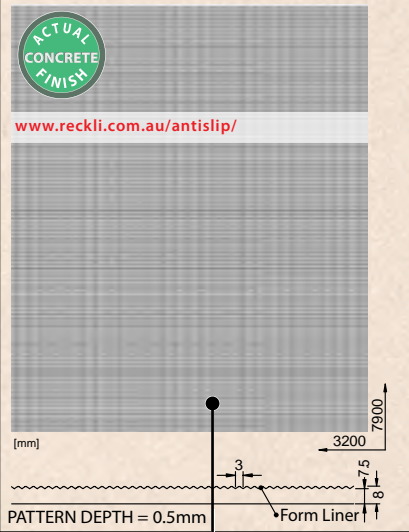
Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
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Anti Slip Patterns

Experience and Quality

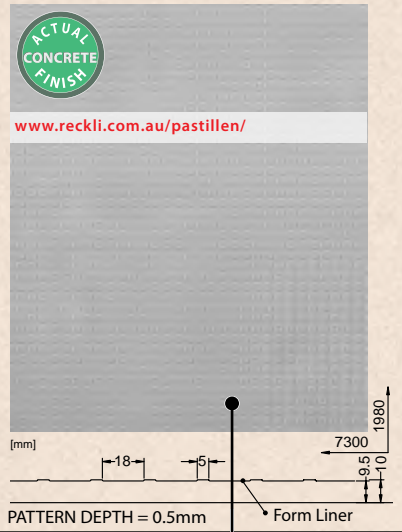
National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia TEL: 1800 176 044 E australia@reckli.com.au W www.reckli.com.au

2/178 Antislip



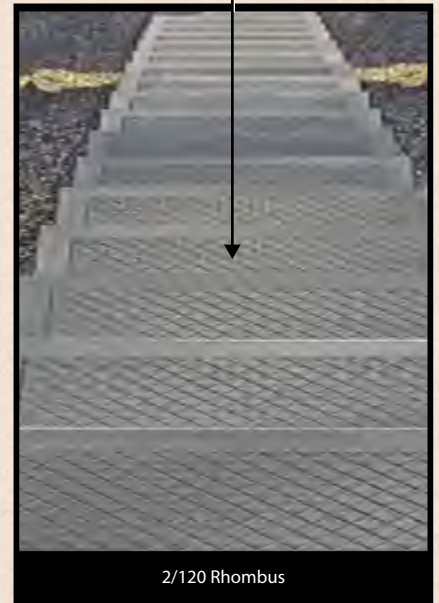
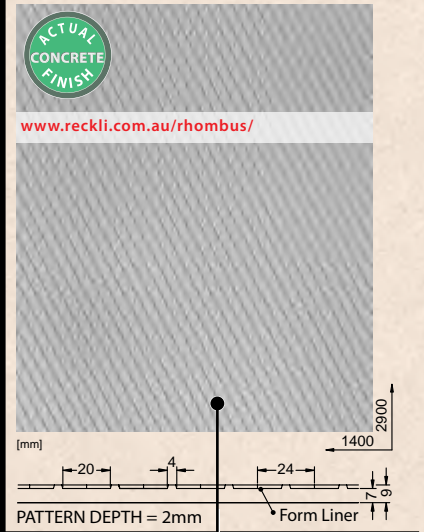
2/115 Pastillen

Named after a French type of sweet



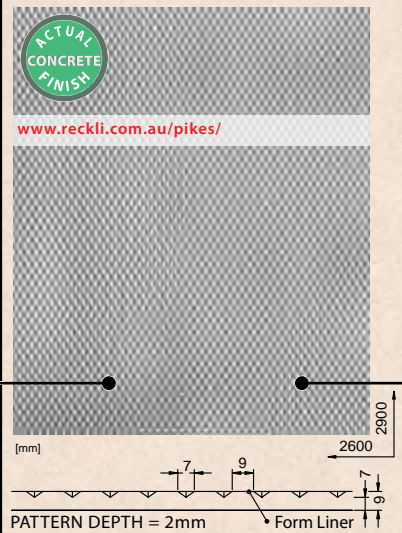
2/120 Rhombus

Named after a shape



2/119 Pikes

Named after a type of road



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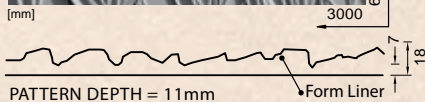
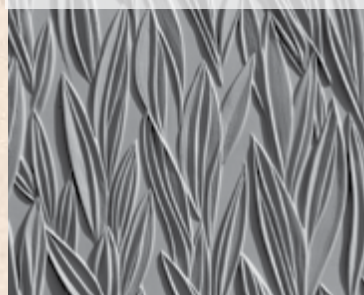
Trends Patterns

Experience and Quality

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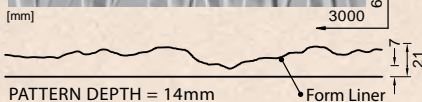
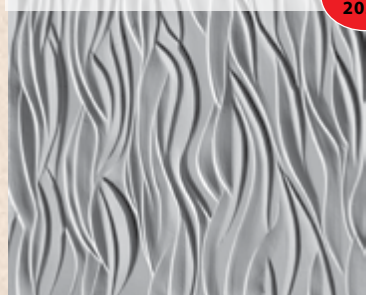
2/208 Volta

Named after a river in Southeast Asia?


www.reckli.com.au/volta/


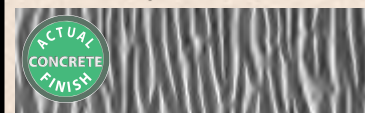
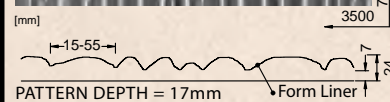
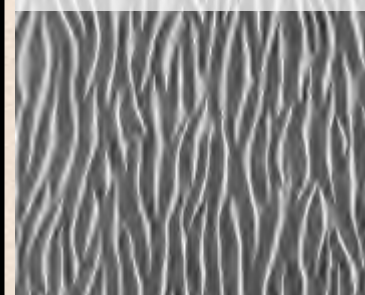
2/203 Samara

Named after a city in Southwest Russia


www.reckli.com.au/samara/

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2020**

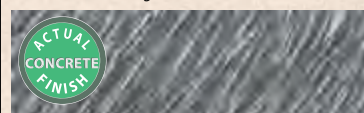
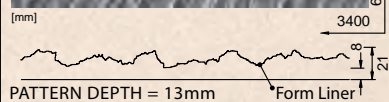
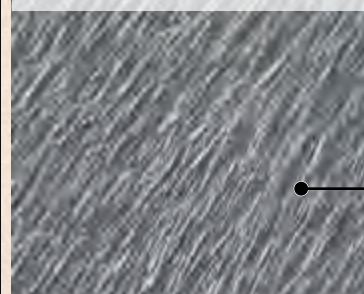
2/186 Dalarna

Named after a region in Sweden


www.reckli.com.au/dalarna/


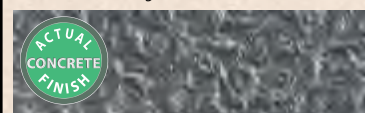
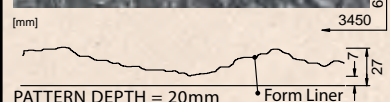
2/180 Steiermark

Named after a region in Austria


www.reckli.com.au/steiermark/


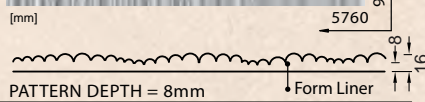
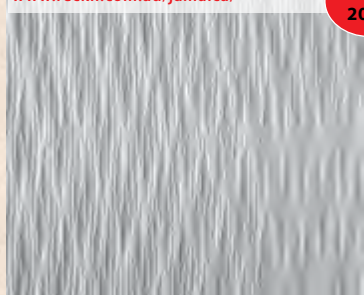
2/183 Gelderland

Named after a region in Netherlands


www.reckli.com.au/gelderland/


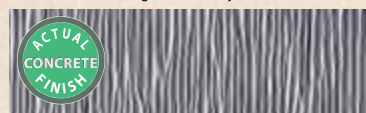
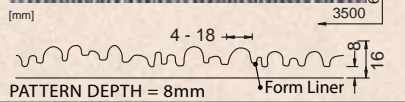
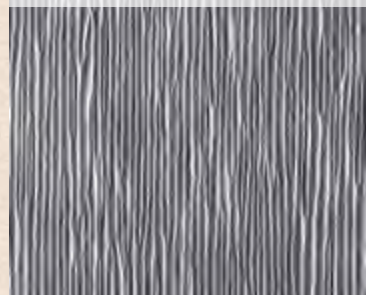
2/244 Jamaica

Named after a island in the Caribbean Sea


www.reckli.com.au/jamaica/
**NEW
2020**


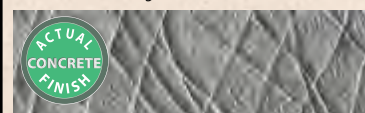
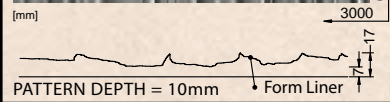
2/187 Abruzzo

Named after a region in Italy


www.reckli.com.au/abruzzo/


2/185 Simmental

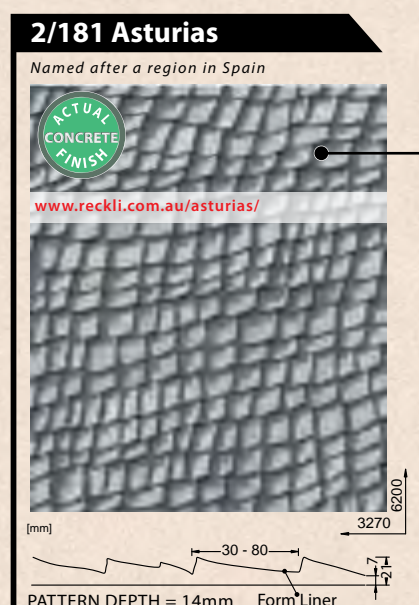
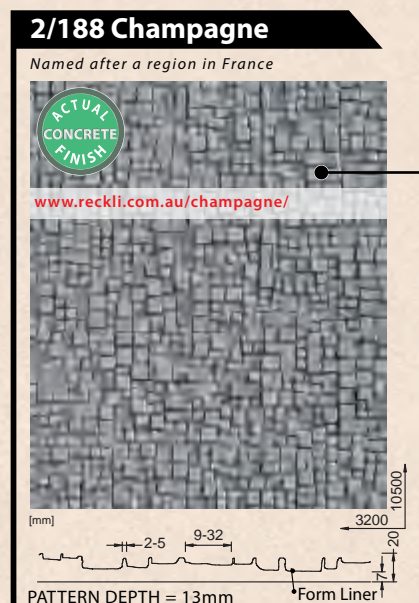
Named after a region in Switzerland


www.reckli.com.au/simmental/

 Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
All patterns on this page are available within 1.5 weeks in platinum grade rubber Ex-Melbourne (Made in Melbourne)

Trends Patterns

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2.5D Form-liners (Made To Order)

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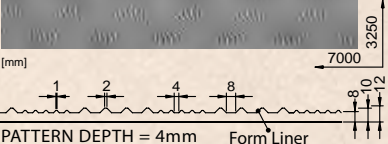
National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia **TEL:** 1800 176 044 **E** australia@reckli.com.au **W** www.reckli.com.au

2/601 Charente

Named after a region in France

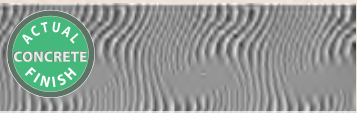


www.reckli.com.au/charente/

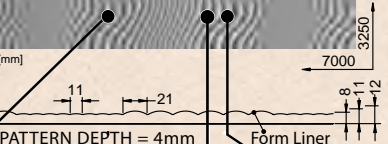


2/602 Saône

Named after a river in Eastern France




www.reckli.com.au/saone/

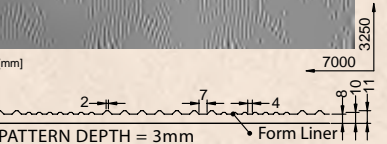





2/603 Vienne

Named after a region in France



www.reckli.com.au/vienne/



Unavoidable production tolerances of +/- 2mm apply to heights/thickness of all profiles on this page.
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**Non Standard Examples Of Graphic Designed Form-liners
(Made To Order)**

Pixel Form-liners (Made To Order)

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RECKLI Pixelated pattern Form-Liners are the new alternative way to transfer a photo image onto a concrete panel without needing to increase the structural panel thickness.

Easy...

Step 1... Chose your image
(*colour or mono-tone*)

Step 2... Chose your finished image size
(*on concrete panel*)

Step 3... email us your request

Result... We will reply with electronic
mock up.

Why RECKLI Pixelated pattern Form-Liners ?... Because;

- They are made in Melbourne
(*no import delays*)
- They are made by us
(*last minute changes = OK!*)
- They are re-usable
- Image is minimal depth
(*no need to thickenup concrete panel*)

See more photos at: www.reckli.com.au/pixel/

Photo Engraved Form-liners (Made To Order)

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Photo Engraved Form-liners (Made To Order)

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Riverstone Crossing Estate at Upper Coomera (North of Gold Coast, Queensland)



See more photos at: www.reckli.com.au/photoengraved/

Photo Engraved Form-liners (Made To Order)

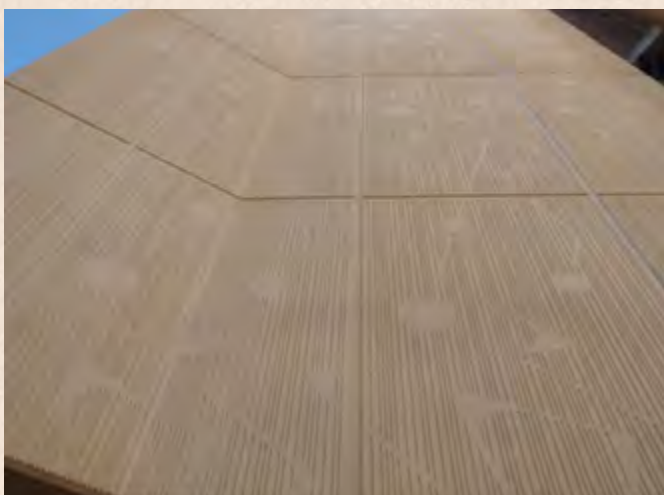
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Photo Engraved Form-liners (Made To Order)

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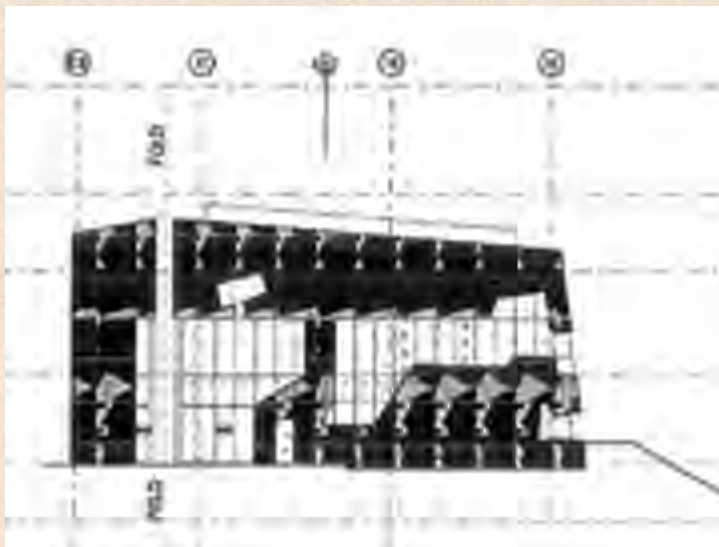
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Callistermon Pattern at Nambour Hospital, Northern Brisbane



Running Man Pattern at Victoria University (Footscray)

See more photos at: www.reckli.com.au/photoengraved/

Custom Moulds (Made To Order)

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Sand-dune at Peppermint Grove Library, South Perth



'The Knot' at North Richmond Community Health Centre, Melbourne



'Circuit-board' at Edith Cowan University, Joondalup, North Perth

See more photos at: www.reckli.com.au/custom/

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Mater Children's Hospital, Brisbane



Waverley Park Noise Walls, Monash FWY, Melbourne



Roses at Glen Eira Office Block, South East of Melbourne

See more photos at: www.reckli.com.au/custom/

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Dimples at Melbourne Convention and Exhibition Centre



Remembrance Drive (Under Western HWY, Ballarat)

Waves at Burrinja Cultural Centre, Upwey
(S.E Melbourne)



Wall Paper Pattern on 2 Girls, Commercial Development, Abbotsford, Victoria

See more photos at: www.reckli.com.au/custom/

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Floral at Coment Bay College, South of Perth



Dragon Scales at Harbour 1, Docklands of Melbourne



Woolworths Shopping Centre, Phillip Island (S.E of Melbourne)

See more photos at: www.reckli.com.au/custom/

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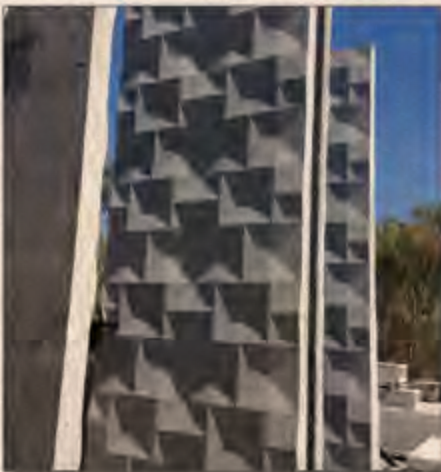
Apartment Development,
Christie Street East Brisbane



Rosebud Medical Centre



Tyre Tracks, Noise Wall at Kings Rd and Calder FWY
Interchange, Northwest of Melbourne



Apartment building in East Perth



GRC panels at Newcastle courthouse



Sloping Pattern at Novotel Hotel,
Brisbane Airport



Water Swirl at Victorian Desal, Wonthaggi, South East of Melbourne

See more photos at: www.reckli.com.au/custom/

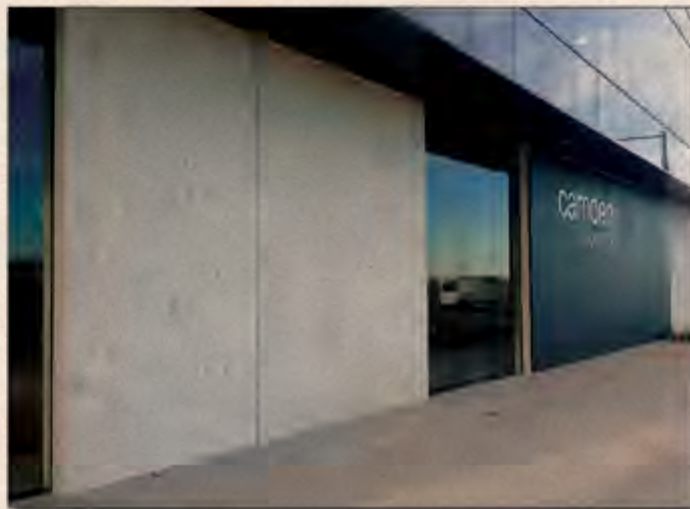
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Planter Boxes at Ellenbrook,
Western Australia



Camden Municipal Offices,
New South Wales



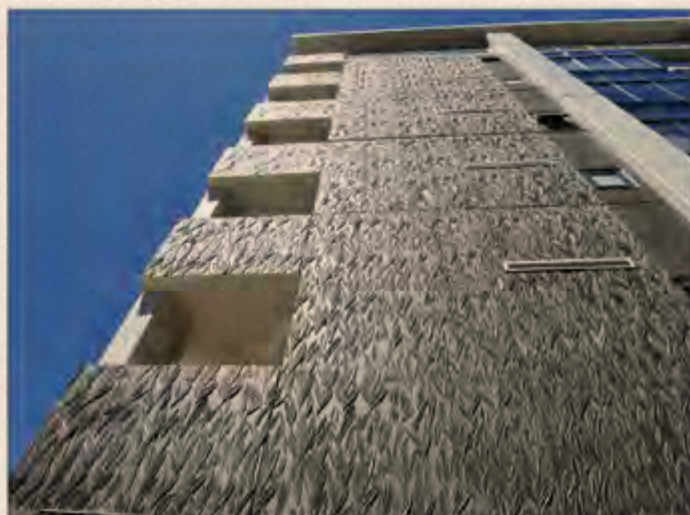
Arden Street Apartments,
(Rippe C + Rippe D)



160mm Deep x 480mm Wide Flutes at Apartment Complex,
Brighton, Victoria



50mm Slopped Pattern at Caulfield - Dandenong
Level Crossing Removal + Rail Project Victoria



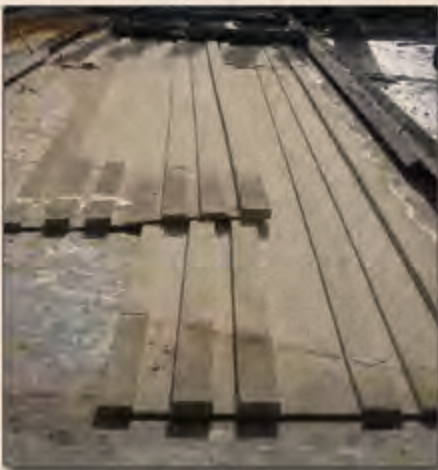
Volta Profile at Apartment Development,
Former Pentridge Prison Site, Coburg, Victoria

See more photos at: www.reckli.com.au/custom/

Pre Cast Being Made With Reckli Form-Liners

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Andalusia Profile for Shell Harbour,
Nosie Walls, New South Wales



K-Panels Gironde at Elvina Apartments,
Carlton, Victoria



Affric Building at Deakin University,
Geelong, Victoria



Mayfair Apartments,
Canberra, Australian Capital Territory



Substation Building,
Penrith, New South Wales



In-Situ Cast Preparations With Reckli Form-Liners

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In-Situ Cast Preparations With Reckli Form-Liners

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Site Cast Preparations With Reckli Form-Liners

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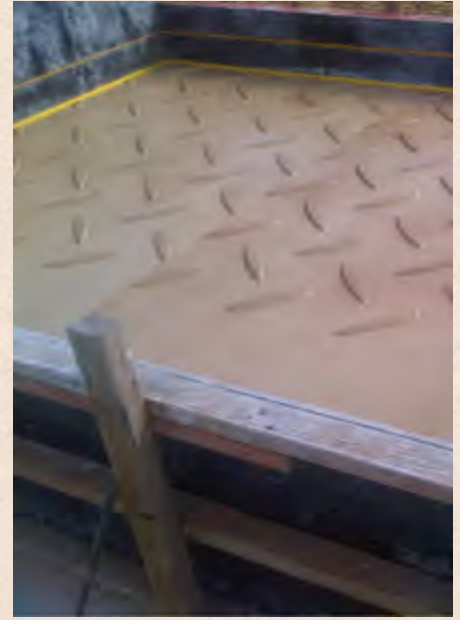
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Site Cast Preparations With Reckli Form-Liners

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CNC Maching and Making Master Moulds

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Quick Shapes

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Application Guideline for RECKLI Form-liners

*Experience and Quality***National Centre** 84 Hunter Road Derrimut, Victoria, 3026 Australia **TEL:** 1800 176 044 **E** australia@reckli.com.au **W** www.reckli.com.au**Disclaimer:**

All form-liner dimensions are nominal. Actual dimensions may vary slightly depending upon design. Despite our carefully controlled production processes, dimensional tolerances are unavoidable. Due to the high elasticity of our form-liners, they can also stretch and be compressed during packing and transport, which may add to dimensional variations.

All methods of concrete panel manufacture vary between all manufacturers and also at different times of the year, we recommend you adopt our suggestions outlined in our “Application Guideline for Reckli Form-Liners”.

Limited Warranty:

Reckli warrants their form-liners to be of uniform quality within manufacturing specifications and will perform as represented, provided that the concrete construction practices used are in accordance with our guidelines and installation instructions.

Reckli assumes no responsibility for any damage to form-liners due to the improper use or application of a non-Reckli form release agent.

Our obligation under this warranty shall be limited to refunding the purchase price or replacing that portion of the material proven to be defective. Reckli make no other warranty expressed or implied, including, without limitation, warranties of fitness or merchantability, with respect to its products.

Application Guideline for RECKLI Form-liners

Experience and Quality

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1. Classification

We distinguish our formliners with the prefix numbers 1/.. and 2/.. The most important distinguishing features are listed in table 1. There is also available another type of formliner with the prefix number 3/.. These formliners are for one use only. This working guide applies only to the formliners with the pre fix 1/.. and 2/.. For the OneTimer Formliners prefix number 3/.. there is a separate catalogue with the relevant guide.

2. Material

The formliners consist of rubber-like Polyurethane Elastomers. The high flexi bility and elasticity allow a damage-free release of the concrete and exact reproduction of the pattern and allowing for undercuts and shallow grooves.

3. Delivery

For the formliners with the index 1/.. we deliver them flat on pallets or in chipboard boxes.
The formliners 2/.. are rolled up on heavy duty cardboard rolls for transport and storage and wrapped in heavy brown kraft paper and/or polyethylene for extra protection against dirt. Depending on the size and weight they are additionally strapped to non-returnable pallets. (Picture 1)

4. Delivery Check

Upon delivery please check your consignment immediately for any damage sustained in transport. If you note any damage to your consignment you must describe it in detail on the delivery note and get the driver to countersign your comments. Before using the formliners first check the required dimensions as detailed on the package especially to the longitudinal direction (ld) of the pattern if here is one.

5. Storage

Before fixing all formliners must be stored dry and level to avoid deformation of the pattern. If using the 2/.. formliners loosely (not adhered) they can be rolled up tightly again onto the cardboard rolls after use. Make sure the formliners rolls do not have any heavy or sharp objects stored on top of them as this would lead to permanent deformation.
The formliners must be protected against intensive weathering such as UV light, rain, frost and any other aggressive conditions. This is best accomplished by covering with dark or black polyethylene or other waterproof sheets. (Picture 2)

6. Transport

6.1 Boxes and pallets

The boxes and pallets with the formliners 1/.. can usually be transported and moved by fork-lift or crane. The pallets with the formliner rolls can also be transported and moved by fork-lifts or cranes.

6.2 Single formliner rolls

Up to a length of approx. 1.50 m the cardboard rolls can be lifted by placing the fork or forks of the fork-lift into the cardboard tube. For rolls of formliner in excess of 1.5 m it is necessary to use extension forks or a carpet 'spike' as otherwise the forks would pierce the cardboard roll and probably the liner as well. If using a crane for lifting make sure you use wide nylon lifting straps evenly distributed along the length of the roll. Do not use wires ropes or chains. For large size formliners it can be useful to place a steel tube through the cardboard roll, make sure you use separate lifting straps from each pole end to crane hook to ensure even lifting. (Picture 3)

7. Heat Resistance

The formliners can used in temperatures up to + 65° C. Temperatures which exceed this value will damage the material. Should you expect a concrete temperature on the interface to the formliner of more than + 65° C due to the concrete mass or other circumstances the mix design or other suitable actions should be adjusted to allow for the safe use of the formliner within its temperature constraints.

Table 1

	Formliners 1 / ..	Formliners 2 / ..
Depth of structure*	> 25 mm	1 - 25 mm
Maximum size*	approx. 1.00 m x 5.00 m	approx. 4.00 m x 10.00 m
Type of elastomer	light $\gamma = 0,9$	normal $\gamma = 1,4$
Re-uses	50 times	100 times
Kind of delivery	Packed flat	Rolls

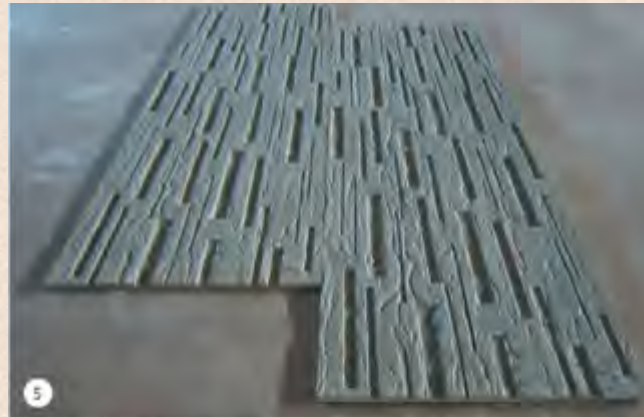
* The exact sizes you find in our catalogue under the photos of the pattern.

Application Guideline for RECKLI Form-liners

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8. Pattern Design

There is no intended repeatability (with the exception of any of the rib type patterns) in the formliner patterns within the maximum mould size as compared to wallpapers. A number of patterns are designed in a way that they can be placed together side by side continuously. With a little care the joints in the patterns can be made almost invisible. (Picture 4+5)

For the building of our master moulds we use a combination of natural and man made materials of commercial grade quality which are formed using current standard working practices. Unavoidable tolerances, discrepancies and imperfections caused by the use of these materials can and will be reflected in the patterns of the formliners. The measurements shown in the sectional drawings under and beside the pattern photos in our pattern book are average values and nominal dimensions which have the stated tolerances. In using these sizes for the calculation of your requirements you should not expect that there is an equal repetition of measurements within the same formliner. The same criteria will apply whether you place two full sizes sheet formliners together or two or more 'made to measure' (smaller) formliners. Therefore it is possible that you will have to stretch or compress the formliners to adapt them to the required pattern format or shutter/mould measurements. This may be required especially for patterns and textures for formliners of bricks, blocks, boards, ribs etc. It is essential that attention be paid to both pattern sequence and direction of all designs; especially when concrete elements are to be arranged side by side or one upon another and are to appear seamless. Unintentional rotation of the formliners by 180° for example can lead to conflicting pattern effects.

9. Cutting

9.1 Oversize and tolerances

Due to their high elasticity the formliners will be stretched or compressed during packing and transport which can lead to dimensional tolerances. Therefore, to protect the liner edges against damage we always supply the formliners oversized. They must be cut to their final dimension on site. It is always advisable to cut formliners a couple of millimetres longer than required for a tight fit against the formwork guide battens. (see 10.1)

The formliners should be cut to their final size directly before adhering to avoid size changes by stretching or shrinking due to temperature differences.

As with all highly elastic rubber-like materials the formliners are subjected to stretching after a long period of use. Therefore it may be necessary to re-cut the formliners to their original dimension from time to time. This of course will only apply if the formliners are not fixed by gluing.

Despite the most carefully controlled production process, dimensional tolerances of some mm in the rear wall thickness of the formliners is unavoidable. This is due to material and production factors which we are unable to negate. These dimensional differences are unavoidable whether you have a formliner produced in its maximum size or a smaller 'made to measure' formliner

within the maximum size of the same formliner. Therefore it may be necessary to grind the formliners edges to even and level them or to thicken the seam area with RECKLI-Formliner Adhesive SO or RECKLI-Elasto Filler when required to place them horizontally next to another formliner. (see 20.2)

9.2 Formliners with prefix number 1/..

These formliners are normally supplied in fixed widths whereas the length/height (ld) is variable. If you have to put 2 or more formliners together (side by side) to reach a total area for the shutter or mould, cutting will probably be necessary. To make perfect cuts lay the formliners onto a flat, clean even surface and cut them using a suitable hand panel or circular power saw. (Picture 6) If using a power saw it is most important to allow the saw blade to rotate freely into the cut and during the cut. Keep the sawn material (waste part) pulled away from the blade to avoid it flapping against the rotating saw blade, otherwise heat will be generated and the formliner can burn. On long cuts it is a good idea to pull the power saw away from the cut and let the saw spin under power to dissipate any build-up of heat.

9.3 Formliners with prefix number 2/..

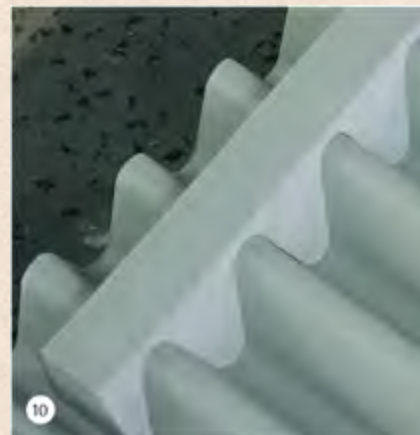
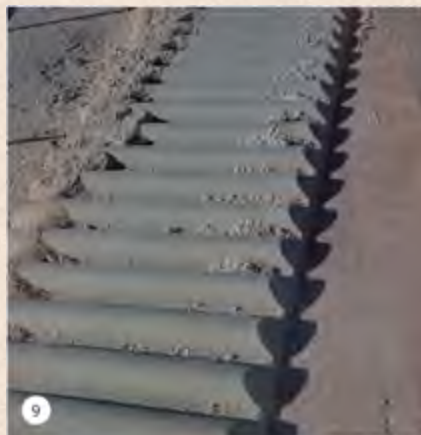
Roll out these formliners onto a flat, clean even surface and cut them with the



Application Guideline for RECKLI Form-liners

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RECKLI- Formliner Knife. For a straight cut line please use a metal or timber straight edge. (Picture 7)

When cutting thicker pattern formliners do not try and make the cut 'in one' place the knife in the first cut and draw through the formliner gently as many times as required, do not use excessive force as this will lead to crooked cuts. We do not advise cutting these formliners with a circular power saw. Note: It is very difficult to make mitred, bevel cuts with a knife to an unfixed formliner. When such bevels are required we can suggest two methods: a) place the area to be

mitred onto a board, place another board above the formliner and fix thereby compressing the formliner. Set the power saw to the required angle and depth and cut the board and the formliner together. (Picture 8+9) b) Perform this task with a power saw min. 24 hours after the formliner has been adhered. Cutting the fixed formliner and the plywood will give a more precise finish. We also advise the 24 hour delay for the drilling of any 'tie-bolt' holes.

10. Application in Pre-cast Concrete

10.1 Fitting the formliner

to the formwork or mould

After cutting the liner lay it loose into the formwork/mould frame. The formliners with prefix number 1/.. should have been cut

with an over-size of 1-2 mm.

So that you can compress them into the dimension frame for getting a tight compressive fit all round.

The liners with prefix number 2/.. should also be cut to an oversize of 1-2 mm. It is easy to compress them so that they will be a tight fit around the edges of the formwork/mould. Please Note: When you allow too much oversize, the formliner will 'bow up' at the edge and form an 'air cushion' which even the pressure of the concrete will not flatten. These 'air cushions' will lead to indentations in the concrete surface.

10.2 Fixing by adhering

Loose formliners have to be refitted into the mould after every cast. To avoid this you can glue the formliner on to the 'tilt-up' or vibrating tables (see 12.) This is always an advantage when you have to produce a series of elements of the same size. Loose formliners will also be more prone to stretching from their constant handling.

10.3 Setting & Placing the formwork/mould edges

You can of course place your form - work/ mould dimension frame directly on to the formliners which have shallow patterns or textures of approx. 1-2 mm. Patterns with a depth of up to 5 mm can be sealed sufficiently by a compression band.

For deeper patterns we suggest you make 'pattern stop-offs' (see 19.2) or in symmetrical patterns (ribs or waves) you can use the same formliner piece inverted. (Picture 10) Please Note: If the frame is pressed too firmly on to the formliner for too long, there will be a permanent depression in the formliner giving a noticeable difference to the pattern if and when the frame has to be moved to a different part of the formliner.

10.4 Vibration

It is possible that the frequencies of an external vibrator can make the formliner 'flutter' and draw air under the formliner. This can result in air 'cushions' or 'bubbles' in the formliner which can lead to indentations in the concrete surface. Therefore the vibrator and its vibration frequency must be checked and adjusted correctly.

10.5 Stripping/Striking

Formliners that are laid loose in the mould are generally removed from the concrete elements and replaced back into the moulds ready for reuse. Care should be taken during the stripping/striking process that the formliner will not fall off the concrete element when the tilting table is in the vertical. The formliner would almost certainly be damaged. (Picture 11-13) To avoid this happening you can glue the liners onto the formwork/tilting table. (see 12.)



Application Guideline for RECKLI Form-liners

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11. Application for In-situ Concrete

11.1. Fixing by adhering

When used for in-situ concrete the form-liners must be glued down. (see 12.)

11.2 Fixing by nails

For minimum use or the immediate change of shutter sizes after the first pour, the formliners with prefix number 1/.. can be nailed onto the formwork. The nail centres should be approx. 20-25 cm. Use 'lost heads' or 'ovals' nails so that it is possible to pull the nail heads through the formliner during stripping/striking. Depending on the pattern or texture always nail through the high points of the pattern. This will ensure that nail holes are in the negative part of the concrete and not so easily noticed.

The formliners with prefix number 2/.. should not be nailed to the formwork. Due to the weight of the formliners there would be too much weight placed on the nails when lifted into the vertical position and this can result in the formliner tearing.

12. Adhering

Please Note: It can be to your advantage to glue the formliners onto plywood sheets and use these sheets as auxiliary/'slave' formwork which you can then fix onto your load bearing formwork or casting table. The plywood can be fixed from the rear using wood screws. The plywood can easily be removed from the load bearing formwork after use. It will also be easier to store and dispose of the formliners when they are glued to plywood.

12.1 Principles of fixing

RECKLI-Formliners must adhered completely. Point or spot gluing will lead to stretching of the formliners during stripping/striking. This type of stretching will lead to raised round areas in the formliner which will show itself as dents in the concrete. It is possible to glue on to steel as well as on timber.

The easiest surface to glue on to is the horizontal surface. Other shutter/mould applications which you might encounter might be inclined, (Picture 17) half or quarter columns etc. On vertical or rounded surfaces the adhesive would flow down to the lowest point leaving insufficient adhesive for a complete fixing. In these applications the Formliner Adhesive should be thickened with our RECKLI-Standardiser 100 to make it more 'pasty'. Please ask for our special advice. On inclined or vaulted surfaces the formliners can slide on the adhesive because of their weight and the adhesive is not a contact adhesive. Therefore the formliner must be clamped, propped or pinned with laths to the formwork/mould until the adhesive has cured. It is easier to add the clamps and laths incrementally as you work round the curve or radius.

You should not walk on or kneel on a freshly adhered formliner as this will push away the adhesive under the formliner and can result in dents in the formliner and show it self as circular raised areas in the concrete.

12.2 Adhesive

RECKLI-Formliner Adhesive SO is not a contact adhesive. It is a 2-component adhesive. The mixing ratio is 4:1 by weight. If it is necessary to weigh out smaller

quantities of adhesive this must be done by weight. For mixing the adhesive a slow speed electric drill with the correct mixing paddle should be used. (Picture 14) The base solution must be mixed first. The hardener is then added to the base solution and mixed thoroughly. To avoid any 'soft spots' or uncured material the adhesive must be placed into another empty, clean container and mixed again. (Picture 15+16) You should use only as much adhesive as you can work with within the pot-life. The pot-life depends on the ambient temperature but as a rough guide you will have approximately 30-40 minutes at 18-20° C. Adhesive consumption is approx. 750-1000 g/m². After 24 hours the adhesive is cured. You should give a longer curing time during winter periods with lower temperatures. The formwork, mould or the tilting table can now be used.

12.3 Surface / Formliner rears

All surfaces that you wish to adhere to must be even, clean and dry. Any grease, oil or mud should be sanded off the shutter not washed off. A superior bonding of the formliner to the shutter will be achieved if you sand the rear of the formliners. (Picture 18)

A light sanding which will roughen the rear will be sufficient. (12.4.1.1 or 12.4.2.1)

14 15 16 17



Application Guideline for RECKLI Form-liners

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12.3.1 Timber

The most suitable foundation for RECKLI Formliners are new clean untreated plywood sheets designated as suitable for shuttering. (Picture 19) Resin coated plywood plates must be ground off to the rough timber surface.

12.3.2 Steel

Steel must be rust free and the work will benefit from a light sand-blast. If this is not possible the minimum should be the use of an angle grinder to the surface. When using RECKLI Formliner Adhesive SO no primer is required.

12.4 Adhering

12.4.1 Formliners with prefix number 1/..

12.4.1.1 Roughening of the formliner rear
Lay the formliners onto their patterned surface for roughening the rear by using a grinding machine. Circular grinding machines or belt sanders are better suitable for this work than vibratory grinders. The grinding dust must be removed completely by sweeping or rubbing off or by blowing off with compressed air.

12.4.1.2 Checking dimensions with a 'Dry run'

Lay the liners loosely onto the surface to be adhered, adjust them and check against your measurements. Lay out a temporary right angle on to your shutter/mould and lay



the liners against this frame. Remove and stack the formliners onto a clean surface.

12.4.1.3 Adhering/Gluing

After mixing the RECKLI-Formliner Adhesive SO (see 12.2) pour it onto the surface to be glued and spread the adhesive evenly over the surface using the supplied serrated trowel. (Picture 19+20) Take care that you spread the adhesive equally. Spread only so much adhesive over the formwork surface as you need for the gluing of one formliner or that you can work with within the adhesive's pot life. Make sure that the edges of the formliner have sufficient adhesive as this is the most critical area of stress when stripping and concrete will always try to enter at the edge of the glue line and get behind the formliners. Lay the formliner onto the fresh adhesive along the temporary right angle. (Picture 21) Please take care that there are no air bubbles under the liner. The best way to avoid this is by sliding the formliner backwards and forwards on the adhesive. Then apply the adhesive for the next liner. Press the liner against the first one making sure you coat the vertical surface of the first formliner with adhesive to give a grout free join. (Picture 22)

Any surplus that has been squeezed out can be wiped off after fixing or left to dry and sanded down.



Carry on in this order until you reach your total shutter requirement. When fixing the formliner onto the shutter check that the formliners will reach the required point on the shutter/mould. Use rips of plywood / wood and pin down edges of liner to prevent them from lifting. You need gentle pressure on the edges for 24 hrs. minimum. Nail through the liner into the plywood. Note: Do not drive the nails home, excessive pressure will raise the edge of the formliner and take it out of contact with the shutter. If using steel shutters use weight on the timber/ply rips.

12.4.1.4 Gluing onto vaulted or curved surfaces

The formliners 1/.. are flexible and can be deformed to various degrees to accommodate shutter and mould shapes but because they are flexible and have a 'spring' value you will have to support/contain the formliners to the shutter/mould profile until the adhesive cures. To reduce the 'spring' in the formliner you can cut kerfs in the rear of the formliner which makes curving the formliner easier, on extreme curves you can cut V's in the back of the liner. The depth of these cuts will depend on the thickness of the formliner. Cut only into the rear thickness of the formliner do not cut near the pattern thickness. (Picture 23+24)



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12.4.2 Formliners with prefix number 2/..

12.4.2.1 Roughening of the formliner rear

Before gluing/adhering the rear of the formliner must be roughened. Lay the formliners onto their patterned surface for roughening the rear by using a grinding machine.

Circular grinding machines or belt sanders are better suitable for this work than vibratory grinders. The grinding dust must be removed completely by sweeping or rubbing off or blowing off with compressed air.

Then turn the formliner back onto its rear side and roll it up again on to the 'transport jacket' (cardboard roll) making sure that formliner is in the right position to be rolled out onto the Formliner Adhesive and shutter. The use of the stripping jackets will make it easier to move the formliners around the working area.

12.4.2.2 Checking dimensions with a 'Dry run'

Roll the liner loosely onto the surface to be adhered, adjust and check against your measurements. If necessary mark reference points on the shutter/mould. Lay out a temporary right angle on to your shutter/mould and lay the liner against this frame. Roll the liner loose onto the surface to be adhered and straight and fit it exactly. Take note of any pattern that has parallel ribs or grid details.

12.4.2.3 Adhering/Gluing

Mix the adhesive (see 12.2) pour it onto the shutter/mould surface, spread the adhesive with a serrated trowel. Lifting the formliner by its stripping jacket, place it next to the start of the vertical part of the right angle 'setting out' frame roll the liner slowly onto the fresh adhesive.

Make sure that the edges of the formliner have sufficient adhesive as this is the most critical area of stress when stripping and concrete will always try to enter at the edge of the glue line and get behind the formliners. Please take care that there are no air bubbles under the formliner.

For the fixing of large formliners or when there is a shortage of manpower an alternative method of fixing you might employ could be this.

After the 'Dry-run' roll up the formliner again with the cardboard roll until in the middle of the shutter. Then mix the formliner adhesive (see 12.2) and pour it in front of the rolled up half of the formliner and spread it equally over a strip of approx. 75-100 cm along the length of the liner. (Picture 25+26)

An even and uniform thickness of the adhesive is most important. Check against excess adhesive which can lay in pools.

In moving the adhesive with the serrated trowel you should look for the distinctive 'tram-line' effect on the adhesive the shutter/mould surface should be clearly visible.

Now roll the liner onto the fresh adhesive and repeat the pouring, spreading and rolling the liner along the shutter/mould strip by strip until you reach the end of the first liner half.

Make sure that there are no air bubbles under the formliner. Press out the air to the front and the sides. During fixing check that you are reaching your datum/pattern points on the formliner or the parallel running of ribs or joints if there are any in the patterns.

Now roll up the second half of the liner to its middle until you reach where you have started spreading the adhesive for the first half and repeat the first half procedure until you reach the end of the second formliner half.

12.5 Removal of glued formliners

When the formliner adhesive has been mixed and applied correctly the fixing should be considered permanent.

The removal of glued formliners should be considered a major task and would be very difficult to remove them from the shutter/mould without damage to the formliner.

Therefore it can be an advantage not to glue the formliner directly onto the structural formwork but onto separate plywood sheets as 'slave' formwork and then to fix these to the structural formwork.

If it is absolutely necessary to remove formliners from the shutter/mould you can use the peel-off method. Cut in at the glue line on one corner pulling the formliner up and cutting away at the glue line carry on until you have a large enough piece of formliner to attach a clamp to which can be attached to a crane, fork lift etc. to apply more force while cutting away at the glue line. Any residue can be sanded off the shutter and formliner with a belt sander.



Application Guideline for RECKLI Form-liners

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13. Release Agents

13.1 Choice of release agent

The choice and application of the correct release agent is most important to obtain an efficient release and high a quality concrete finish. We supply three different release agents depending on the application. RECKLI-Stripping Wax TL contains solvents. RECKLI-Stripping Wax TL-W is water-based. These two release agents are more suited to pre-cast concrete. RECKLI-Stripping Wax TL-SO also contains solvents and is especially designed for in-situ concrete. (Table 2)

13.2. Application

The stripping wax must be brushed or sprayed on a minimum two times. (Picture 27) The release agent should be applied laterally and longitudinally. It is most important that in any rib patterns the vertical part of the ribs should be sprayed at 45° from both sides of the formliner to ensure correct coverage. Surplus wax must be removed by a brush or clean cloth. You can also blow it off with compressed air.

13.3 Protection of the wax film against weathering

After evaporation of the solvents in Stripping Wax TL and TL-SO or the drying of the water-based Wax TL-W you can use the formliner/mould. To avoid any damage by rain and weather to the wax film you should protect the liners with polyethylene or any light plastic covers. (Picture 28) If the wax film has been reduced or damaged it should be reapplied.

Note: You will find that a 'fan' spray will give the best and most even application of the Stripping Wax's TL and TL-SO. Make sure that your sprayer has solvent resistant gaskets.

14. Bar spacers

Bar spacers that offer the largest contact areas should be used. Chair type spacers give a point loading and will press into the formliner (Picture 29) and will therefore show through the concrete. The minimum concrete covering over the reinforcement is always measured from the deepest point in the concrete surface. Therefore the bar spacers must be set onto the highest points of the formliner pattern. It is of great advantage to hang up the reinforcement for avoiding a loading of the liners. (Picture 30)

15. Concrete Casting

RECKLI-Formliners allow the use of all types of cement based concrete. When using external vibrators you should note that some of the vibration frequencies will be absorbed by the elasticity of the formliner. This can be compensated for by a longer vibration time.



Table 2

Application	Type	Consumption per coat
Pre-cast concrete	RECKLI-Stripping Wax TL	50 -100 g/m ²
	contains solvents	2 coats required
In-situ concrete	RECKLI-Stripping Wax TL-SO	50 -100 g/m ²
	contains solvents	2 coats required

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16. Striking / Stripping

16.1 Striking / Stripping timing

It is easier to release RECKLI-Formliners within 24 hrs of casting. Specification and striking times for your particular application should overrule RECKLI's suggestion.

16.2 Unfixed formliners

Formliners that are laid loosely in the mould will peel off of the concrete during stripping due to their weight. (Picture 11-13) If this should not happen due to the depth of pattern, peel off the liners carefully starting from a corner. Do not tear at the formliner, doing so could exceed its stretching capacity.

16.3. Adhered formliners

Release the pre-cast concrete elements from their moulds or the shutter from the concrete.

The releasing of the element from the mould or the shutters from the concrete should be done slowly and carefully. You must allow the formliners time to stretch and release themselves from the concrete they should need the minimum effort from you.

(Picture 31-35)

In every instance avoid the use of sharp or edged tools to hasten the stripping process as damage will be done to the formliners.

17. Cleaning

17.1 Formliner surfaces

When the formliners are provided with the correct amount of Stripping Wax the formliner will be clean and ready for reuse after striking/ stripping, reapply more Stripping Wax ready for the next cast.

If, for any reason it becomes necessary to clean the formliner, take a dry, clean rag and soak it with the relevant Stripping Wax and clean off any cement splashes or dirt on the formliner.

17.2 Tools and equipment

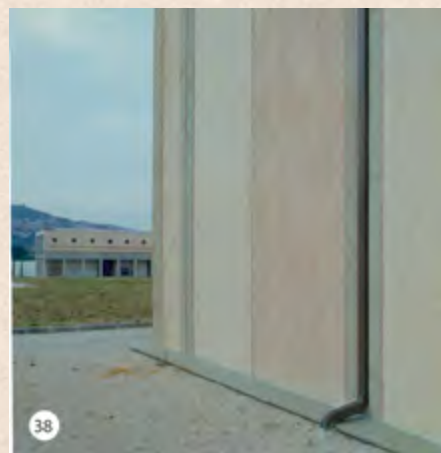
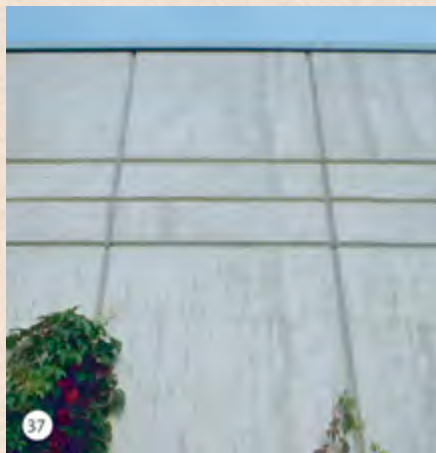
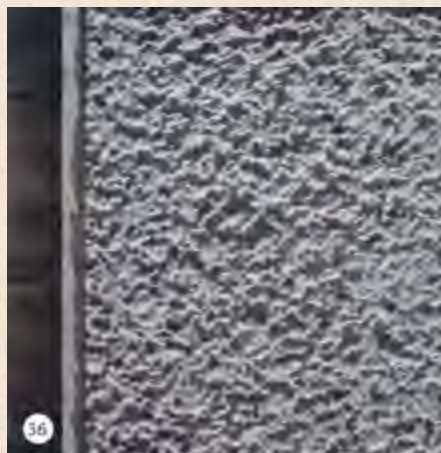
For cleaning tools and equipment after use, use RECKLI-EK-PU Thinner. Clean thoroughly while the formliner adhesive is fresh. Use a brush, it is not sufficient to lay the tools in the thinner. You will not be able to remove the cured 2-component material once it has hardened.



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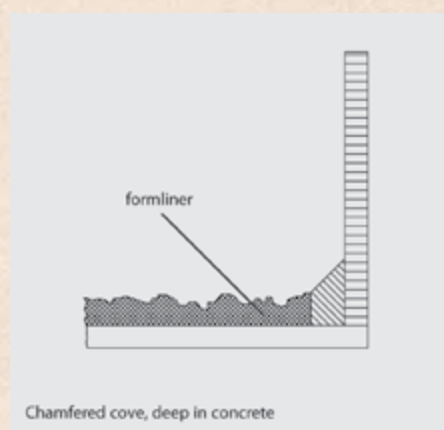
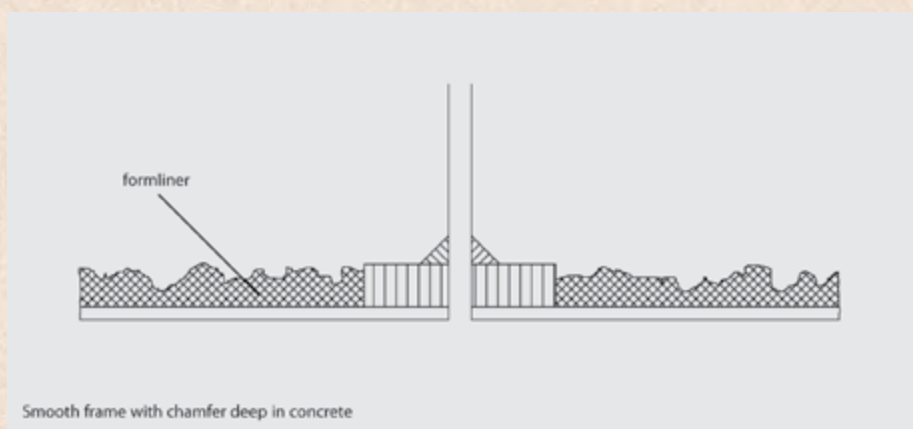
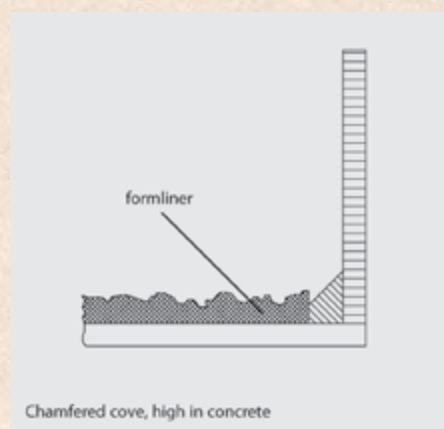
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18. Joints / Corners / Edges

18.1. Use of profiled fillets

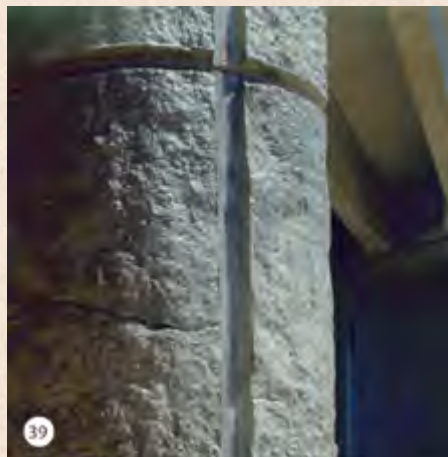
Profiled fillets for shaping corners, edges and joints should be considered. You must calculate the thickness of the profile as to what part of the pattern it is required to be aligned to i.e., top, middle or bottom. The thickness of the formliner back must also be considered. (see sketch 1-5) (Picture 36-39)



Application Guideline for RECKLI Form-liners

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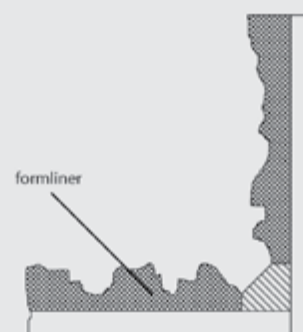
18.2 Formliner joints

When placing formliners with coarse or rank patterns side by side care must be taken to see that the joints from this operation are sealed correctly. RECKLI-Formliner Adhesive can be used after you have glued the formliner down. You can also use standard building One Component Silicone applied to the formliner when the adhesive has cured.

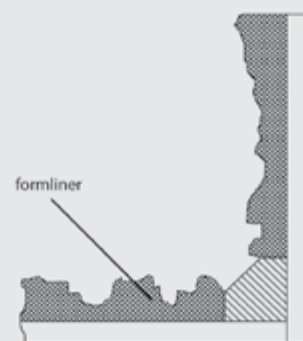
We do not advise butting or mitring formliners together for 90° corners for such kind of patterns. They will never look good.

Make a feature at the corners by introducing a plain band to the pattern, the corner will look sharper and straighter. The formliner will also have a straight line to finish to. (see sketch 6-9)

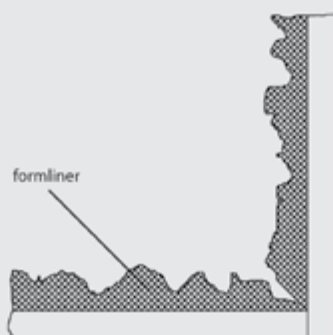
Of course for patterns with straight lines like ribs and waves it is of advantage to cut the liners mitred for 90° corners. (Picture 40+41)



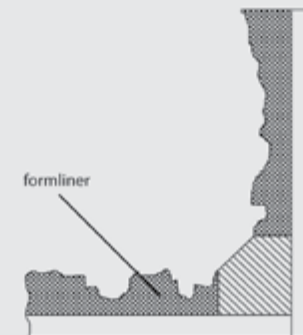
Cove with chamfer, high in concrete



Cove with chamfer, middle in concrete



Chamfer in formliner



Cove with chamfer, deep in concrete

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19. Stop-offs / Counter impressions

19.1 Cuts out

Pattern stop-offs for i.e. windows, doors or lighting can be formed by cutting out the shapes in the formliners and inserting a frame. This is suitable if the same openings are to be used in the same position for every use of the formliner. (Picture 42)

19.2 Pattern stop-offs using RECKLI-Mould Paste PU

If they are to be used once or twice or the formliner needs to be used in a different position then RECKLI-Mould Paste PU should be used. (Picture 43+44)

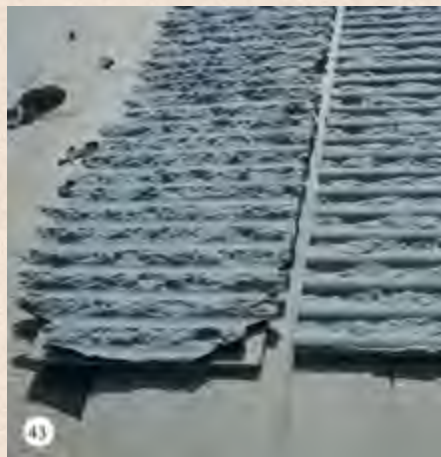
Select the area for the pattern stop-off and paint on RECKLI-Mould Wax exceeding the area by at least 100 mm all round. On textures, shallow patterns deep ribs place a frame larger than the required stop-off.

Use clay or Plastercine to fill in the space between the bottom of the frame and the pattern detail.

On deep rib patterns, to save material block off with timber pieces. Paint the frame, clay, Plastercine with a coat of Mould Wax.

Mix and pour the Mould Paste PU inside the frame forcing the material into the pattern detail with a spatula. You can mix and pour wet on wet material to reach the required level which should be approx. 6mm higher than the highest part of the pattern. Place a clean dry board onto the fresh Mould Paste PU making sure it is level. Leave to harden. When hardened remove from formliner and trim off surplus material for sharp square or cut bevelled edges.

19.2.1 Properties of RECKLI-Mould Paste PU
RECKLI-Mould-Paste PU is a pasty elastic 2-component material. The mixing ration is 10:1 by weight. If using only part quantities from a drum the amounts of base solution and hardener must be weighed out, never mix by volume. For mixing use a slow speed electric drill with the correct mixing agitator.



Mix only so much paste as you can work with within the pot-life. The pot-life is approx. 10-15 minutes depending on temperature.

The curing time is approx. 1 hour.

The consumption depends on the type of pattern.

The specific weight is approx. 1.4 g/cm3.

19.2.2 Removing of mould wax residues

To avoid different colours in the finished concrete, the area treated with RECKLI-Mould Wax must be removed and cleaned by using RECKLI-Stripping Wax. Soak a clean cloth with RECKLI-Stripping Wax TL, TL-SO or TL/W and wash and clean off the areas where the Mould Wax remains.

If this procedure is not carried out carefully, colour differences in the finished concrete surface should be expected.

19.3 Inverted formliners

For symmetrical patterns (ribs or waves) you can use the same formliner pieces inverted for stop-offs. (Picture 10)

20. Repairing / Patching & Equalizing of Formliners

20.1 Repair

With RECKLI-Elasto Filler you can patch and repair damaged or torn formliners. To get a correct bonding of the Elasto Filler to the formliner the damaged area holes or tears must be clean, dry, dust, oil, wax and grease free. The area to be repaired or filled must be roughened by sand paper.

The filler must be applied quickly and within the pot life time. Surplus material must be removed while the material is still fresh.

Texture and shape modelling must be done also within the pot-life.

Any hardened residue can be ground off after approx. 2-3 hours. After 4-5 hours you can load the repaired area.

Tears and splits: Carefully clean and pretreat the sides of the split or tear as above mentioned.

Under the tear lay a piece of polyethylene to avoid unwanted bonding of the paste. Apply RECKLI-Elasto Filler to the sides of the tear and press the tear together.

Surplus filler can be removed with cloth or spatula and is best removed while fresh.

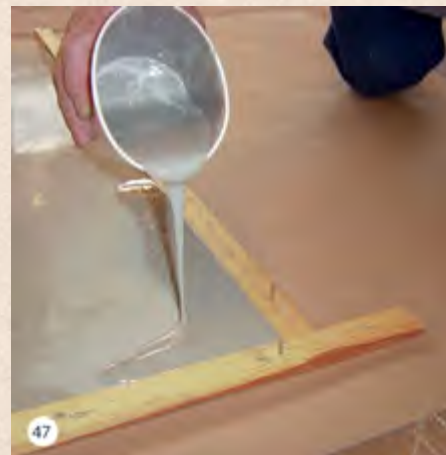
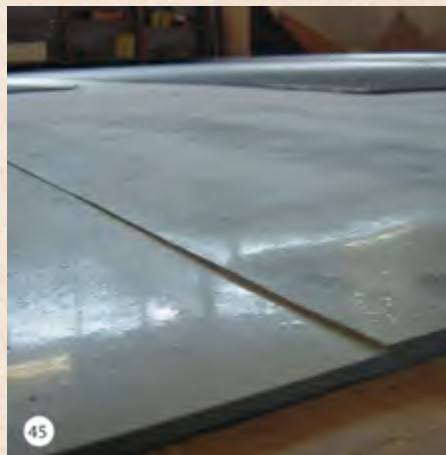
Cured filler you can only remove by sanding or cutting. After curing turn the liner on to its front side. Grind out 3-5 cm left and to the right of the tear line and approx. 3 mm deep. Fill this recess with the Elasto Filler and smooth it. After 2-3 hours hardening it can be ground level. Turn the formliner back onto its rear and apply RECKLI-Stripping Wax to the repaired area.

Note: We must categorically point out that a repaired seam cannot possibly give the same result as an undamaged formliner. There is always the possibility of the repaired formliner tear showing through in the patterned surface even when the repair has been carried out extremely careful.

Application Guideline for RECKLI Form-liners

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20.1.2 Properties of RECKLI-Elasto Filler

RECKLI-Elasto Filler is composed of 2 liquid components. The mixing ratio is 8:1 by weight. After mixing the hardener with the base component a thixotropic action will take effect after about 2-3 minutes.

The thixotropic effect increases until the end of the materials workable time. In this time RECKLI-Elasto Filler can be used as a pourable material and as a filler. The pot-life takes approx. 10 minutes at + 18° C. The layer thickness can be up to 10 mm in one application. Consumption depends on the area to be repaired. The specific weight is approx. 1.4 g/cm³.

Note: To extend the workable time of Elasto Filler spread the mixed filler onto a board as a thin coat.

20.2 Equalizing of formliner rears

As already mentioned (see 9.) dimensional tolerances of some mm in the rear wall thickness of the formliners is unavoidable. (Picture 45) Therefore, sometimes it is necessary to adjust the thickness of the formliner rear. This you can do by grinding down the thicker one or by increasing the

thickness of the thinner one.

Turn the liners on to their pattern sides put them together and grind or sand down the thicker parts along the edges in a flat strip until you have reached the thickness of the thinner formliner. (Picture 46)

Be sure to 'feather' away the grinding or sanding to the centre of the formliner so that you do not leave a step.

When the difference of the rear thickness' is too big, it could be easier not to grind the formliner down but to increase the thickness of the thinner one. Turn the liners on to their pattern side. Clean the area to be levelled by grinding or sanding this also acts as preparing the foundation.

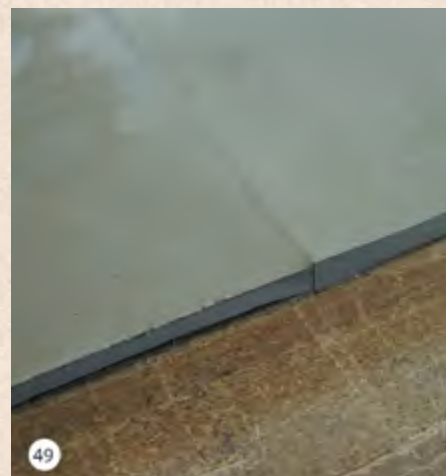
Place a piece of timber along the edge to be levelled to the required height. Paint the board with RECKLI-Mould Wax allow to dry and fix along the formliner edge which you wish to fill level. Mix the RECKLI-Formliner Adhesive SO (see 12.2) and pour it onto the roughened rear part of the formliner. (Picture 47)

Being a liquid it should find its own level. Take RECKLI-Elasto Filler (see 20.1.2) for the levelling material when the area to be levelled is not too large. (Picture 48)

After the Formliner Adhesive or the Elasto Filler has cured remove the board along the formliner edge. If necessary grade the repair into the formliner by grinding or sanding which will also remove any high spots. The formliner is now ready for use. (Picture 49)

21. Waste disposal

RECKLI-Formliners are made from Poly - urethane Elastomers. The code of the European Waste Register is 12 01 05.



Application Guideline for RECKLI Form-liners

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22. Product & Consumption Table

22.1 Material - Please refer to the relevant technical pamphlets, too.

Material	Application	Consumption
RECKLI-EK-PU Thinner	Cleaning of tools and equipment	Depending on the degree of contamination
RECKLI-Elasto Filler	Repair of damaged formliners and equalizing of formliner rears	depending on the volume of damage or filling, $\gamma = 1.4$
RECKLI-Formliner Adhesive SO	Adhesive for full entire surfaces on steel or timber and equalizing of formliner rears	Approx. 750-1000 g/m ²
RECKLI-Mould Paste PU	For making pattern stop-offs	Depending on the pattern, $\gamma = 1.4$
RECKLI-Mould Wax	Release agent for RECKLI-Mould Paste PU and for steel or timber gauges while equalizing of formliner rears	Approx. 150-200 g/m ²
RECKLI-Standardiser 100	Thickener for Formliner Adhesive for gluing on vaulted or curved surfaces	1-5 %
RECKLI-Stripping Wax TL	Release agent for pre-cast concrete, contains solvent	Approx. 100-150 g/m ² depending on the pattern
RECKLI-Stripping Wax TL-SO	Release agent for in-situ concrete, contains solvent	Approx. 100-150 g/m ² depending on the pattern
RECKLI-Stripping Wax TL-W	Release agent for pre-cast concrete, water-based	Approx. 100-200 g/m ² depending on the pattern
Tool/Equipment	Application / Use	
Boards / rips / laths	Restraining of formliner during and after adhering, boards for pressing into Mould Paste PU for stop-offs	
Brush	Cleaning tools	
Buckets	To decant after mixing 2-component material in original container	
Circular grinder / belt grinder	Removing residue of adhesive film / grinding rear of formliner for better bonding / grinding of recesses for strengthening of repaired tears / equalizing of formliner rear	
Cloth / rags	Removing of Mould Wax residues while using Mould Paste PU / soaking up of surplus of Stripping Wax	
Gauging/pointing towel	Scraping material from pails or drums	
Hand circular saw	Cutting of formliners index 1/.. and pattern stop-offs	
Marker pencil	Marking of stop-off lines	
Metal/wood straightedges	Straight edges for cutting liner index 2/..	
Mixing paddle	For electric hand drilling machine for mixing 2-component material	
Polyethylene	Protection of formliners and Stripping Wax application against weathering	
RECKLI-Form liner Knife / hand panel saws	Cutting of formliner index 2/..	
Sandpaper	Cleaning and sanding of formliners / removal of surplus Elasto Filler and levelling of repaired areas	
Screw clamps	To apply pressure to boards while Formliner Adhesive cures / clamp preparation for peeling off of glued formliners	
Seated towel	Spreading of Formliner Adhesive	
Slow speed electric hand drill	Mixing of 2-component material	
Spatula	Mixing and application of Elasto Filler, cleaning and pointing joint lines and smaller quantities of Formliner Adhesive	
Spray	Application of Stripping Wax	
Stanley or RECKLI-Formliner Knife	Peel off of adhered liners from form-work	
Tape measure	Checking of formliner measurements	
Weighing scales	Weighing out of smaller quantities of 2-component materials	

CR Type N-Concrete Surface Retarder

Experience and Quality

National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia **TEL:** 1800 176 044 **E** australia@reckli.com.au **W** www.reckli.com.au

For the production of premium exposed aggregate concrete, available in different washing depths

RECKLI CR Type N

is a solvent-based concrete surface deactivating agent used to produce new to coarse exposed aggregate concrete using the negative or positive process. RECKLI CR Type N is available in 3 different washing depths. (Light / Medium / Heavy)

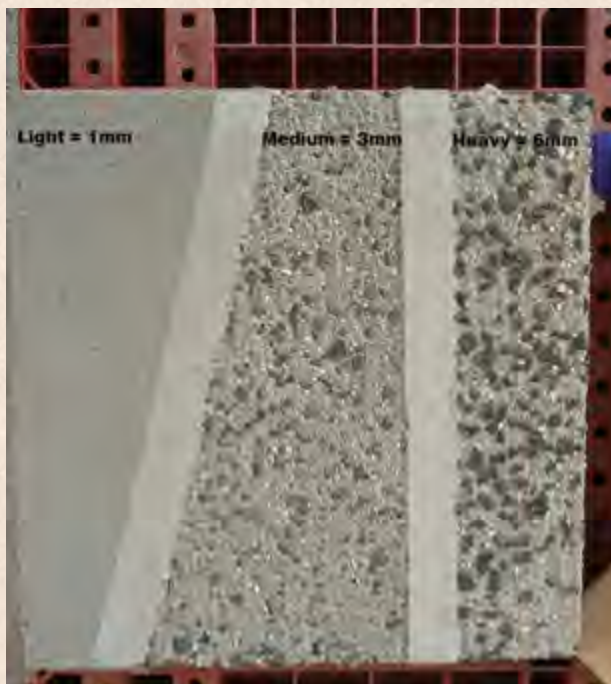
Benefits:

- Homogeneous washing pattern
- Quick and easy washing
- Low consumption
- Very short drying time
- Easy formwork cleaning

Areas of Application:

- Architectural façade elements
- Precast concrete elements
- Cast-in-place concrete elements
- Roughening of separating joints
- Cast stone and general concrete products

Please follow the instructions of the corresponding technical data sheet when applying the product.



RECKLI CR Type N	Colour	Size	Aggregate Washing depth
Light	brown	2-4/8 mm	Approx. 1.0 mm
Medium	grey	8-12 mm	Approx. 3.0 mm
Heavy	red-violet	16-22 mm	Approx. 6.0 mm

Washing depths are approximate only. They depend on the cement grade, w/c ratio, aggregate mix and powder ratio. We will be pleased to assist you with the selection of the most appropriate type.



Concrete Surface Retarder

Experience and Quality

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PROCESSING

Thoroughly stir RECKLI-CR Type N with a whisk before each use.

Apply a thin and even coat of the material with a short-pile paint roller or a suitable sprayer onto the surface.

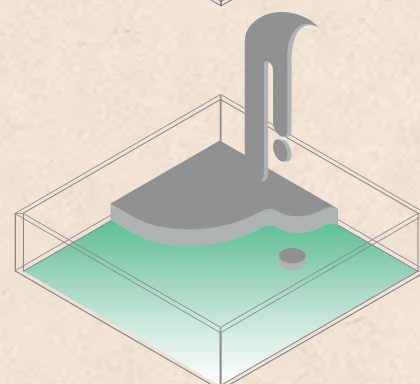
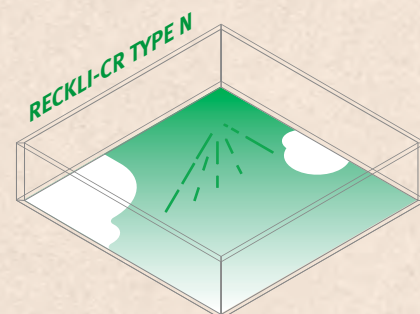
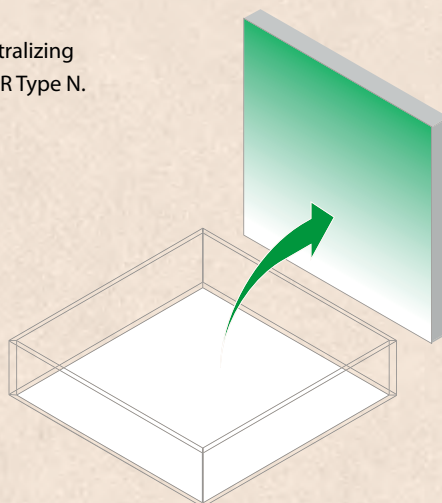
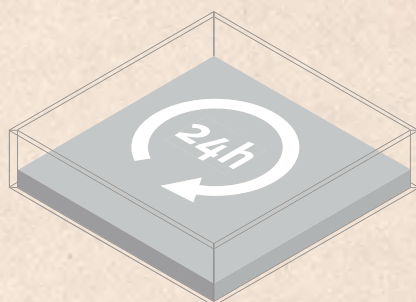
Allow the material to quickly dry (depending on weather conditions this could take between 15 and 60 minutes) you can then introduce the concrete.

The concrete mix, production process and time, thickness of the elements and the relative setting temperature must be determined by trial and error. For best results please avoid segregation and setting of the concrete that occurs too early.

The ideal running time must also be determined by means of experimentation. The concrete should not set until approximately 1 hour after placement. The casing should be heated two hours after placement, at the earliest.

Any data compiled during the trial and error phase should be applied. Unavoidable changes to the parameters set during the trial and error phase can generally be compensated for by using a different RECKLI-CR-N type or by altering the production process or the concrete mix.

If the surface area is alkaline, we recommend neutralizing the casing before the first application of RECKLI-CR Type N.



RINSING ELEMENTS

Elements can generally be rinsed after 18 to 24 hours. They should remain in the mold for at least 8 hours. If need be, RECKLI-CR Type N can be washed off later on, even after 48 or 72 hours.

Just to be sure, try a preliminary test. The washing cycle should remain the same within one series. In order to even out potential fluctuations in the production parameters and in order to reduce the washing depth, elements can be exposed to fresh air for 2 to 12 hours prior to the wash (time to be determined in the preliminary test). Washing yields best results when done with a high pressure washer. Dry brushing with subsequent washing is also a possibility.

CLEANING YOUR TOOLS

Tools can be cleaned with the RECKLI-EK-PU thinner.

RECOMMENDATION

Electrical equipment used in connection with RECKLI-CR Type N (dosing pump motors, etc.) in particular should be explosion protected. We recommend the use of Teflon gaskets.

APPLICATION RATE

approx. 80-150 g/m²

PACKAGING

20kg canister

STORAGE

Store in a cool place with decent ventilation, frost resistant.

SHELF LIFE

12 months from the manufacturing date, as long as the original seal has not been broken. Open containers should be resealed airtight immediately.

SAFETY PRECAUTIONS

RECKLI-CR Type N contains solvents. The work area should be well ventilated. Smoking and open fires should be avoided at all cost. Skin and eyes should be protected from spray. Please refer to the safety precautions regarding dangerous substances and hazardous regulations found on the label, as well as the material safety data sheet issued by the German Standards Institute (DIN).

Surface Protection

Experience and Quality

National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia **TEL:** 1800 176 044 **E** australia@reckli.com.au **W** www.reckli.com.au

RECKLI surface protection and RECKLI Graffix® protect your high-quality objects with impregnation and surface protection systems that are adapted perfectly to the requirements of the concrete. RECKLI Graffix® also protects the concrete against graffiti over a long period. A facade is essentially a building's advertisement. RECKLI Graffix® Basic »invisibly« protects every kind of concrete surface against graffiti vandalism. The colourless impregnation provides long-term protection and can be applied to fresh concrete without changing its appearance or texture. The long-term protection and weather resistance makes looking after facades that have been impregnated with RECKLI Graffix® Basic extremely easy and economical.

Surface protection systems shield surfaces of exposed concrete from water, dirt and graffiti. Water has a tendency to run hazardous substances, microorganisms and salts over the concrete surface. Over time, these substances attack the structure and can lead to spalling.

RECKLI protection systems seal new and older surfaces of exposed concrete either with no color or with an optical effect. They are suitable for the follow-up treatment of concrete component façades, in-situ concrete constructions, artificial stone and Terrazzo flooring.

COLORLESS IMPREGNATION

RECKLI OS-D, OS-HO and OS-Premium protection systems can be applied to new concrete. They penetrate the surface and form a chemical bond. Since this type of impregnation does not create a film, the coloring of the concrete surface remains unchanged.

EFFECT IMPREGNATION

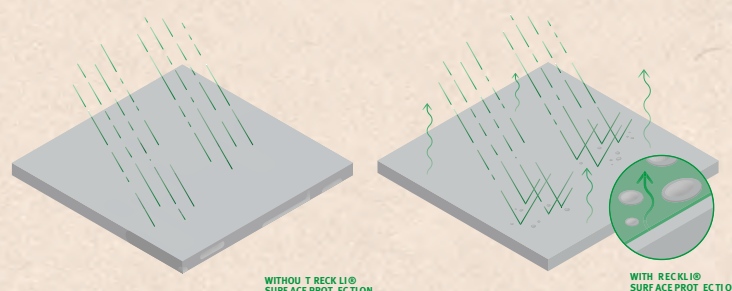
RECKLI OS-Intensiv and OS-W are especially suitable for processed and absorbent surfaces such as exposed aggregate concrete, structural concrete or acidified concrete. These protection systems can be applied to new concrete. The materials penetrate the surface and form a film with a matt or silky finish that intensifies the concrete's coloration.

GRAFFIX

This product combines the protective properties of a colorless impregnation with permanent protection against graffiti. Graffix does not alter the concrete surface's coloring. It can be applied to new concrete at the prefabrication plant. Other materials usually require 28 days for hardening. Our in-house cleaning solution RECKLI Graffix Cleaner removes graffiti without compromising the protective film. This allows for a very easy and economical cleaning of façades. The cleaning process can take place up to 5 times. Thereafter, the surface has to be re-impregnated.

SUMMARY

Product advantages



RECKLI-CR TYPE N

homogeneous washing
13 different washing depths
minimal use (80-150 g/m²)
extremely fast drying time
big time frame for rinsing
low casing cleaning

RECKLI-CR TYPE PV

homogeneous washing
12 different washing depths
minimal use (approx. 200 g/m²)
very light washing
sprayable
odorless and environmentally friendly
integrated follow-up treatment and curing compound

RECKLI-CEMGEL K | KS

consistent quality
high-grade acids guarantee precise washings
odorless thanks to its gel-like viscosity
can be applied in a vertical or horizontal manner
no drip build up

RECKLI-OS

alkali-resistant for optimum effect on new concrete
can be applied the same day as the concrete has been poured
UV-resistant
a wide range of products for every application and optical effect
adapted to RECKLI concrete parting agents

Terms and Conditions

1.0 Definitions & Interpretation

1.1 Accession means any Goods which are installed in or affixed to other goods; ACL means the Australian Consumer Law in Schedule 2 of the CM;

1.2 Reckli means Global Enterprising Company Pty Ltd trading as Reckli Form-Liners & Moulds, ABN 20 109 492 426;

1.3 Amount Payable means all amounts payable by the Customer at any time to Reckli and/or Reckli's Related Corporations (whether or not those amounts have become due for payment under these Conditions) in relation to the Goods or the contract between the Customer and Reckli (including, but not limited to, any invoiced amount, interest, fees, costs or expenses);

CCA means the Competition and Consumer Act 2010 (Cth);

1.4 Conditions means these terms and conditions;

1.5 Confidential information means all information (in any form, whether written, electronic or otherwise) including any proprietary information, data, trade secrets, ideas and know-how (including systems, processes, techniques and algorithms), throughout the world in or relating to the Goods or the Services; Customer means a person or representative who makes a contract with Reckli on the terms of these Conditions;

1.6 Delivery Programme means the Customer's proposed delivery dates for the Goods and/or Services;

1.7 Goods means any goods supplied by Reckli which are the subject of an order, or part of those Goods where the context allows;

1.8 GST means the tax payable on Taxable Supplies within the meaning of the GST Act; GST Act means the A New Tax System (Goods and Services Tax) Act 1999 and any related Act imposing such tax or legislation that is enacted to validate, recapture or recoup such tax;

1.9 Lead Time means the minimum period before the proposed despatch date by which the Customer must provide Working Documentation which period shall be notified by Reckli on request.

1.10 Processed Goods means goods which, after delivery, become part of a product or mass by being manufactured, processed, assembled, commingled or otherwise dealt with so that their identity is lost in the product or mass;

1.21 PPSA means the Personal Property Securities Act 2009 (Cth);

1.22 Related Corporation has the meaning given to the term "related body corporate" in section 50 of the Corporations Act 2001;

1.23 Services means services supplied by Reckli to the Customer in relation to Goods the subject of an order which has been accepted by Reckli;

1.24 Specification includes chemical formulae, ingredients, architectural drawings, working drawings or other plans and accompanying schedules as varied or amended from time to time;

1.25 Variation means any modification, amendment or change to the terms of an order submitted by the Customer (whether or not such order has been accepted by Reckli) including, without limitation, in relation to scheduling and re-scheduling, loading requirements, delivery times or delivery sites;

1.26 Working Documentation means architectural drawings, site drawings, working drawings, construction drawings and schedules or any other document or operational information provided by or on behalf of the Customer to Reckli for the purpose of the transactions contemplated by these Conditions, and Working Hours means between 7.00am and 5.00pm, Monday to Friday (inclusive) excluding public holidays;

1.27 In addition, the following terms have the same meanings given to them in the PPSA:

- (a) financing statement;
- (b) proceeds;
- (c) purchase money security interest;
- (d) security agreement;
- (e) security interest; and
- (f) verification statement.

2.0 Offers, Orders & Requests.

2.1 A written offer issued by Reckli to the Customer is an invitation to the Customer to purchase. A written offer expires on the date specified as an expiry date. If no expiry date is specified, the written quotation expires 30 calendar days after the date of the written offer.

2.2 Reckli may withdraw, revoke or vary a written offer at any time prior to the Customer submitting and Reckli accepting an offer (which may be by way of an order) in response to the invitation to purchase comprised by Reckli's written offer.

2.3 A contract for the supply of Goods is made when Reckli communicates in writing its acceptance of the Customer's offer.

2.4 An order from the Customer on terms which are inconsistent with the terms of a written quotation is an offer by the Customer to buy Goods from Reckli. In those circumstances, a contract for the supply of Goods is made if:

- (a) Reckli communicates that it is prepared to supply the ordered Goods only on the Terms of these Conditions; and
- (b) the Customer accepts delivery of the ordered Goods in which case the contract is deemed to have been made as at the date of the Customer's order.

2.5 A contract made pursuant to clauses 2.3 or 2.4 is wholly documented by any specific terms agreed by Reckli and the Customer in writing including, without limitation, in a quotation and these Conditions. 2.6 To the extent that any inconsistency arises between the terms of an offer and any clause of these Conditions, the terms of the offer prevail to the extent of the inconsistency.

2.7 Where in the period between acceptance of an offer and delivery of the relevant Goods, Reckli incurs an increase in the cost of producing and/or delivering the Goods, Reckli reserves the right to increase the offered price of these Goods at any time prior to delivery (a "price escalation"), provided that the Customer will not agree to the price escalation, terminate part or all of the contract within 7 days after receiving notice of such price escalation.

2.8 These Conditions of Trade apply to the exclusion of any terms and conditions of trade of the Customer whether or not any inconsistency arises, and bind the Customer both personally and as trustee of any trusts of which the Customer is a trustee.

3.0 Specifications and Working Documentation

3.1 If the Customer's order refers to a Specification or Working Documentation then:

- (a) the Customer represents and warrants to Reckli that any such Specification or Working Documentation does not and any Goods produced by Reckli pursuant to such Specification or Working Documentation will not breach or infringe upon the rights or property of any third party including, without limitation, patent, design, copyright or other intellectual property rights and the Customer indemnifies Reckli and must hold it harmless from and against any loss, damage, liability or cost suffered or incurred by Reckli arising out of a breach by the Customer of the representations and warranties made by it pursuant to this clause;

- (b) the Customer releases Reckli from and waives any rights or causes of action it may at any time have had against Reckli but for this release in relation to any fault or defect in any Goods made pursuant to the Customer's Specification or Working Documentation arising, whether directly or indirectly, out of the terms of the Specification or Working Documentation provided by the Customer to Reckli; and

- (c) the Customer indemnifies Reckli and must hold it harmless from and against any loss, damage, liability or cost suffered or incurred by Reckli attributable, whether directly or indirectly, to the terms of any Specification or Working Documentation provided by the Customer to Reckli.

3.2 Subject to clause 11.1, unless otherwise stated on a quotation, Goods will be supplied by Reckli within the tolerances in regard to quantity, weight, dimension and chemical composition as specified in the relevant order or, if not specified, as consistent with usual industry practice. Where the total mass or length of any item supplied includes a fraction of a tonne, the Customer must pay for that fraction on a pro rata basis.

3.3 Notwithstanding any other provision of these Conditions, it is a term of the contract that Reckli has discretion to refuse to supply Goods and/or Services to the Customer (without liability to the Customer) where:

- (a) Goods or Services are unavailable or insufficient for any reason whatsoever;
- (b) the Customer has failed to comply with terms on which Reckli has agreed to provide credit to the Customer; or
- (c) the Customer or a Related Corporation of it has breached a contract with Reckli or a Related Corporation of it, including these Conditions.

3.4 The Customer agrees that it does not rely on the skill or judgement of Reckli in relation to the suitability of any of the Goods for a particular purpose.

4.0 Delivery and Risk

4.1 Reckli's delivery obligations are subject always to the Customer providing Reckli with:

- (a) a 28 day Delivery Programme, updated weekly; and
- (b) Working Documentation no later than the Lead Times for the corresponding Goods;

(c) unless Reckli agrees otherwise in writing.

4.2 Subject to clause 4.1, Reckli will deliver Goods to the Customer as follows--

- (a) Reckli reserves the right to arrange transport by any means in its absolute discretion;
- (b) delivery will be made during Working Hours to the location agreed (delivery point) for the purpose of clause 2.5;

(c) Reckli or its transport contractor will deliver the Goods as close (Drop Stop) to the delivery point as, in the opinion of Reckli or its transport contractor, it is safe and prudent to do so and delivery occurs and risk in the Goods passes to the Customer when Reckli or its transport contractor's delivery vehicle arrives at the Drop Stop;

- (d) the unloading of Goods at a Drop Stop is the Customer's responsibility at its own cost and risk but Reckli or its transport contractor will without liability to the Customer, unload the Goods at the Drop Stop if the Customer requests Reckli to do so or is absent from the Drop Stop at the time Reckli or its transport contractor wishes to unload and the Customer releases and forever discharges Reckli and its transport contractor from and against any claim, cause of action or liability arising out of the unloading of Goods at the Drop Stop;
- (e) where the Customer attends Reckli's premises to acquire Goods, Reckli may, in its discretion:

- (1) deliver the Goods into or onto the Customer's vehicle in which case risk in the Goods passes to the Customer and delivery is effected when the Goods are set down in or on the Customer's vehicle; or
- (2) deliver the Goods by setting them down along side the Customer's vehicle in which case risk in the Goods passes to the Customer and delivery is effected when the Goods are set down along side the Customer's vehicle notwithstanding that Reckli's staff may, at request, assist the Customer to load the Goods into or onto the Customer's vehicle.

4.3 Where Reckli or its transport contractor enters the Customer's premises or the premises of a third party nominated by the Customer as a delivery point, the Customer releases Reckli from any claim the Customer may at any time have had against Reckli but for this release in respect of damage occasioned to the Customer's premises or injury to persons arising out of the delivery by Reckli or its transport contractor of Goods to such premises.

4.4 A statement on an invoice or delivery docket given to the Customer by Reckli as to the quantity, description, date and place of delivery of Goods will be a conclusive statement and bind the Customer for all purposes.

4.5 If the Customer does not advise Reckli in writing of any fault, damage or defect in Goods or failure of Goods to comply with the terms of a contract made pursuant to these Conditions within 48 hours of delivery:

(a) the Customer is deemed to have accepted the Goods and is deemed to agree that the Goods are not faulty, damaged or defective and comply with a contract made pursuant to the terms of these Conditions; and

(b) the Customer releases and discharges Reckli from and against any claims, actions, loss or liability relating to any fault, damage or defect in the Goods or any failure of the Goods to comply with a contract made pursuant to these Conditions.

4.6 If the Customer advises Reckli in writing of a fault, damage or defect in Goods or a failure of Goods to comply with the terms of a contract made pursuant to these Conditions within 48 hours of delivery then Reckli will, if in its opinion the Customer's advice is reasonable and the Customer has not used the Goods, replace the Goods that appear to be faulty, damaged or defective or not in compliance with the terms of a contract made pursuant to these Conditions and Reckli will have no additional liability to the Customer.

4.7 Unless otherwise agreed by Reckli and the Customer in writing, Reckli will bundle or package Goods the subject of an order in its discretion and the Customer releases and forever discharges Reckli from any liability or claim arising out of such bundling or packaging by Reckli.

4.8 Reckli will not be liable for any loss incurred as a result of delay or failure to make any supply of Goods or Services or to observe any of these Conditions due directly or indirectly to an event of force majeure, being any cause or circumstance beyond Reckli's reasonable control, including but not limited to, any lack of production capacity or raw materials, strikes, lockouts, labour disputes, fires, floods, acts of God or public enemy, malicious or accidental damage, delays in transport, breakdowns in machinery or restrictions or prohibitions by any government or any semi-government authorities or embargoes. During the continuance of an event of force majeure Reckli's obligations under these Conditions will be suspended. In these circumstances, Reckli has no liability whatsoever to the Customer and if the force majeure event continues for 28 days or longer, either party may terminate the contract for convenience.

5.0 Retention of Title

5.1 The Customer agrees that legal and equitable title to the Goods is retained by Reckli until the Amount Payable has been paid in full by the Customer for the Goods, the Services and all other goods and services supplied to the Customer at any time. Prior to title in the Goods passing to the Customer, the Customer:

- (a) holds the Goods and any Processed Goods as bailee and fiduciary agent of Reckli;
- (b) must store the Goods and such part of the Processed Goods separate from its own goods and those of any other third party in such a way as to clearly indicate at all times that the Goods and such part of the Processed Goods are owned by Reckli; and
- (c) must ensure that, at all times, the Goods and such part of the processed goods are properly stored, securely identified, readily identifiable and insured.

5.2 The Customer hereby agrees to accept this appointment as bailee and fiduciary agent of Reckli.

5.3 The Customer may only install or affix the Goods to other goods (so that they become an Accession to those other goods) or use (or permit the Goods to be manufactured, processed, assembled, commingled or otherwise dealt with so that they become Processed Goods) in the ordinary course of the Customer's normal business.

5.4 The Customer may sell or deal in the ordinary course of business with the Goods, and such part of the Processed Goods or any Accession provided that

- (a) any such sale or dealing is at arms' length and on market terms; and
- (b) the Customer holds the proceeds of any sale of or dealing in the Goods and such part of the proceeds of any sale of or dealing in the Processed Goods on trust for Reckli in a separate identifiable account as the beneficial property of Reckli and the Customer must pay such amount to Reckli on demand.

5.5 For purpose of this clause 5, "such part" means an amount equal in dollar terms to the amount owing by the Customer to Reckli at the time the Goods are used in the manufacture of, or incorporated into, the Processed Goods or Accession.

5.6 Notwithstanding any other provision to the contrary, Reckli reserves the following rights in relation to the Goods until the Amount Payable has been paid in full by the Customer in respect of the Goods and all other goods and services supplied to the Customer at any time:

- (a) legal and equitable ownership of the Goods;
- (b) to retake possession of the Goods; and
- (c) to keep or resell any of the Goods repossessed.

5.7 In the event of a breach of this contract by the Customer including, without limitation, failure by the Customer to pay any Amount Payable by the required date, the Customer must return the Goods to Reckli immediately on demand. If the Customer does not return the Goods to Reckli on demand, Reckli is entitled (without further notice) to:

- (a) enter upon the Customer's premises at any time to do all things necessary to recover the Goods or any Processed Goods;
- (b) take possession of any Goods or any Processed Goods wherever located;
- (c) take possession of any Goods which have become an Accession, wherever located; and/or
- (d) appoint a person to be a receiver of all or any of the Goods, Accessions, Processed Goods or other property the subject of the security interests created by the contract.

5.8 The Customer hereby grants full leave and irrevocable licence to Reckli and any person authorised by Reckli to enter upon any premises where the Goods, Processed Goods or Accessions may for the time being be placed or stored for the purpose of retaking possession of those Goods, Processed Goods or Accessions.

5.9 The Customer:

- (a) must pay Reckli all costs and expenses incurred or payable by Reckli for registering, maintaining or releasing any security interest, charge, mortgage or caveat in connection with the contract, or recovery of the Amount Payable or in otherwise enforcing ABC's rights against the Customer;
- (b) must pay the costs of registering any PPSA financing statement and such costs may be invoiced or debited against the Customer's credit account; and
- (c) indemnifies Reckli for all fees (including legal and debt collection fees on a full indemnity basis), costs and expenses incurred or suffered as a result of any and all prosecution, actions, demands, claims or proceedings brought by or against Reckli in connection with the retaking possession of the Goods or the exercise by Reckli of its rights under this clause, and the Customer shall repay all such fees, costs, losses, damages, expenses or any other sums of money on demand.

5.10 The Customer acknowledges and agrees that the contract between the parties comprises a security agreement and that Reckli is entitled to register a financing statement in respect of the security interests given under that contract.

6.0 Price and GST

6.1 The price of Goods or Services or both will be Reckli prevailing price at the time of delivery and does not include GST unless expressly stated to the contrary.

6.2 Where a party to these Conditions (Supply Maker) makes a Taxable Supply (within the meaning of the GST Act) under or in connection with these Conditions to another party to these Conditions (Recipient) and the consideration otherwise payable for the Taxable Supply is not specifically stated to include GST, the Supply Maker will be entitled to recover from the Recipient as an additional amount the amount of any GST payable on the Taxable Supply, and the Recipient must pay such GST at the same time that the consideration for the Taxable Supply is payable.

6.3 The amount of any cost recovery or compensation for costs under or in connection with these Conditions shall be reduced by the amount of any Input Tax Credits (within the meaning of the GST Act) available in respect of those costs.

6.4 A party to these Conditions will not be obliged to pay any amount in respect of GST to the other party until, and until a Tax Invoice (within the meaning of the GST Act) has been issued in respect of the GST.

6.5 In addition to payment of the price for Goods, the Customer is responsible for and Reckli may recover from the Customer:

- (a) taxes (other than income tax), stamp duty or other statutory charges or levies whether State or Federal payable in relation to the supply of Goods;
- (b) the cost of delivery of Goods including, without limitation, costs relating to long loads, wide loads, escorted loads, drop trailers, crane trucks (including associated personnel), particular damage requirements, palletising or crating of materials, early deliveries (at or around 7.00 am), delivery loads of less than 10 tonnes, delivery to non-metropolitan sites;
- (c) the cost of providing materials necessary to manufacture Goods in accordance with a Specification or Working Documentation when such materials are not indicated on the Specification or Working Documentation including, without limitation;
- (d) costs incurred by Reckli arising out of late notification by the Customer of a change to an agreed delivery schedule with such costs to include, without limitation, costs of double handling, storage of material, trailer hire and scheduling of production and delivery;
- (e) storage charges where Goods are not collected immediately upon being made available for collection at Reckli's premises;
- (f) damage costs or charges incurred by Reckli for attendance at a delivery point after the expiration of the first three quarters of an hour such charges to be calculated at master carrier rates;
- (g) legal and collection costs and disbursements on an indemnity basis incurred by Reckli in relation to a breach of these Conditions by the Customer;
- (h) all costs, charges, expenses or any other outgoings incurred by Reckli with respect to any Variation by the Customer;
- (i) all costs or charges incurred by Reckli with respect to the recovery or return of Goods from the Customer (including re-stocking charges) whether or not such recovery or return of Goods occurs in relation to any breach of these Conditions; and
- (j) the cost of any testing or inspection of Goods, or testing or inspection of products or materials required by the Customer to be used in relation to the manufacture of Goods.

6.6 The Customer must pay to Reckli any costs, charges and expenses (including all stamp duty and legal fees on an indemnity basis) incurred by Reckli in connection with these Conditions, the exercise or attempted exercise of any power, right or remedy under these Conditions, and the failure of the Customer to comply with these Conditions.

7.0 Payment and Credit Terms

7.1 Unless Reckli has agreed to provide credit to the Customer, payment for Goods and services must be made by the Customer in immediately available funds on or immediately prior to despatch of the Goods.

7.2 Unless otherwise agreed by the Customer and Reckli, Reckli will be entitled to deliver the Goods in one or more instalments. Where delivery of the Goods is effected by way of part delivery, Reckli will be entitled to invoice the Customer for pro-rata progress payments in respect of Goods delivered.

7.3 Where Reckli has agreed to provide credit to the Customer, Reckli will submit an invoice to the Customer for Goods or Services or both supplied to the Customer (including, without limitation, Goods delivered in part fulfilment of an order) and the full amount of the invoice together with any additional charges (if any) must be paid by the Customer to Reckli by no later than the stated date of Reckli's invoice. All payments are claimed under the Building & Construction Industry Security of Payments Act (VIC) or equivalent in each state or territory.

7.4 Reckli is entitled to allocate and apply amounts received from the Customer to any part of the Amount Payable or any other amounts due to Reckli in any manner it determines, including in any manner required to preserve any purchase money security interest it has in any Goods, and despite any instruction, request or direction from the Customer as to how payments should be applied.

7.5 The Customer must pay Reckli on demand default interest at the rate prescribed from time to time in the Penalty Interest Rates Act 1983 (Vic) on all overdue amounts owed by the Customer to Reckli which interest will be calculated daily and will be payable together with the overdue amount. All payments made by the Customer will be first applied to the accrued interest.

7.6 The Customer must not retain or withhold any money owing to Reckli notwithstanding any breach or alleged breach by Reckli of these Conditions including the supply of allegedly faulty or defective Goods. Reckli expressly disclaims any right of the Customer to set off amounts due or alleged to be due from Reckli to the Customer against amounts due or alleged to be due from the Customer to Reckli under these Conditions.

7.7 Reckli may, at any time, without cause, vary, suspend, limit or withdraw any credit granted to the Customer.

7.8 If the Customer breaches a provision of these Conditions including, without limitation, a provision relating to the payment of money or if the Customer, being a natural person, is the subject of any personal insolvency event including, without limitation, arising out of the Customer committing an act of bankruptcy or if the Customer, being a company, has a receiver, receiver and manager, official manager, trustee, administrator, other controller (as defined in the Corporations Act) or similar official appointed or steps are taken for such appointment over any of the assets or undertaking of the Customer or if the Customer suspends payment of its debts generally or is or becomes unable to pay its debts when they are due or is presumed to be insolvent under the Corporations Act or if the Customer ceases or threatens to cease to carry on business or any guarantee or security given to Reckli in relation to the Customer is purported to be revoked or asserted to be unenforceable then Reckli may, without limiting any other rights it may have, do any or all of the following things:

- (a) withdraw any credit facilities which may have been extended to the Customer and require immediate payment of all moneys owed to Reckli by the Customer;
- (b) terminate, without Reckli incurring liability to the Customer any contract in force between Reckli and the Customer for the sale or supply of Goods or Services or both and, without limitation, withhold any deliveries of Goods or performance of Services pursuant to any purchase order accepted by Reckli;
- (c) suspend performance under or terminate, in either case without Reckli incurring liability to the Customer, any contracts in force between Reckli and the Customer, not being contracts for the sale or supply of Goods.

7.9 The Customer as beneficial owner charges in favour of Reckli all of its interest in all of the present and future real property of the Customer as security for the due and punctual payment of all debts and monetary liabilities owed by the Customer to Reckli pursuant to a contract on or including the terms of these Conditions, including the Amount Payable. The Customer acknowledges that Reckli has a caveatable interest in any real property owned by the Customer and consents to Reckli lodging a caveat to note its interest.

7.10 Upon demand by Reckli, the Customer agrees to immediately execute a mortgage on terms satisfactory to Reckli to more particularly describe the security interest conferred by this clause.

7.11 Should the Customer fail within a reasonable time of such demand to execute such mortgage or should the Customer be in default of any of its obligations under the contract, then the Customer irrevocably appoints Reckli and each of its authorised officers, jointly and severally, as its attorney with authority to do on its behalf any thing that it may lawfully authorise an attorney to do including, without limitation, to make, sign, execute, seal, register and deliver any document and to take possession of, use, sell or otherwise dispose of any property of the Customer, including real property, and the Customer ratifies all acts and things done by Reckli and its authorised officers in exercising this power of attorney. A third party may rely on a certified copy of these Conditions as evidence of Reckli's appointment as the Customer's attorney.

7.12 The Customer grants a security interest in the Goods to Reckli to secure payment of the Amount Payable. The security interest:

- (a) extends to and continues in all proceeds, Accessions and Processed Goods; and
- (b) is a purchase money security interest to the extent to which it secures payment of that part of the Amount Payable which comprises the aggregate unpaid purchase price of Goods.

7.13 The Customer must not do or permit anything to be done that may result in the purchase money security interest granted to Reckli ranking in priority behind any other security interest.

8.0 PPSA

8.1 The Customer:

- (a) waives its right under section 157 of the PPSA to receive a copy of the verification statement verifying registration of a financing statement or a financing change statement relating to a security interest created under the Contract and

- (b) contracts out of its rights to receive any other notice or statement under any other provision of the PPSA (including for the avoidance of doubt, any of the provisions specified in clause 8.2).

8.2 To the fullest extent permitted by the PPSA, the parties agree to contract out of the following provisions of the PPSA: sections 95, 117, 118, 120, 121(4), 125, 132 and 143, which sections (or parts of sections) do not apply to the contracts between the Customer and Reckli.

9.0 Limiting Liability

9.1 These Conditions set out the entire agreement between the parties in relation to their subject matter. The terms of the United Nations Convention on Contracts for the International Sale of Goods, 1980 (the Vienna Convention) and all other terms or conditions in relation to the subject matter of these Conditions, whether implied by use, statute or otherwise, are expressly excluded.

9.2 No statement or recommendation made or advice, supervision or assistance given by Reckli, its employees, agents, transport contractors or representatives whether oral or written must be construed as or constitutes a warranty or representation by Reckli or a waiver of any clause in these Conditions. Reckli is not liable for loss or damage arising directly or indirectly from any act or omission to act arising directly or indirectly from any such statements, recommendations, advice, supervision or assistance.

9.3 Subject to clauses 4.6 and 9.4, Reckli is not liable for any loss or damage, however caused (including, but not limited to, by the negligence of Reckli), suffered by the Customer in connection with a supply of Goods or Services under these Conditions.

9.4 If the CCA or any other legislation implies a condition or warranty into these Conditions in respect of goods or services supplied, and Reckli's liability for breach of that condition or warranty may not be excluded but may be limited, clause 9.3 does not apply to that liability and instead Reckli's liability for any breach of that condition or warranty is limited to:

- (1) in the case of a supply of Goods, Reckli owing any one or more of the following (at its election):
 - (a) replacing the Goods or supplying equivalent goods;
 - (b) repairing the Goods;
 - (c) paying the cost of replacing the Goods or of acquiring equivalent goods;
 - (d) paying the cost of having the Goods repaired; or
- (2) in the case of a supply of Services, Reckli doing either or both of the following (at its election):
 - (a) supplying the Services again;
 - (b) paying the cost of having the Services supplied again.

9.5 Notwithstanding any other provision of these Conditions, Reckli is not liable to the Customer for any loss or damage, however caused (including, but not limited to, by the negligence of Reckli), suffered or incurred by the Customer arising out of a breach by Reckli of a contract made pursuant to these Conditions or a negligent act or omission of Reckli or a breach of a statutory duty or obligation by Reckli. The phrase "indirect, special or consequential loss or damage" is deemed to include the following: economic loss, loss of opportunity, loss of profit or revenue, loss or damage in connection with claims against the Customer by third parties, liquidated sums or liquidated damages.

10.0 Consumers

10.1 Where and only to the extent that the supply of Goods is to a "consumer" (as that term is defined by the ACL) then, in respect of that supply:

- (a) the Special Conditions are incorporated into and form part of these Conditions, and apply as part of the contract between the Customer and Reckli; and
- (b) clause 9 does not apply and, except as stated otherwise in the Special Conditions, nothing in these Conditions excludes, restricts or modifies any Consumer Guarantee applying under the ACL.

11.0 Miscellaneous

11.1 Nothing in these Conditions is intended to exclude, restrict or modify rights which the Customer may have under the CCA or any other legislation which may not be excluded, restricted or modified by agreement.

11.2 A party waives a right under these Conditions only if it does so in writing. A party does not waive a right simply because it fails to exercise the right, delays exercising the right or only exercises part of the right. A waiver of one breach of a term of these Conditions does not operate as a waiver of another breach of the same term or any other term.

11.3 If a provision in these Conditions is wholly or partly invalid or unenforceable in any jurisdiction, that provision or the part of it that is invalid or unenforceable must, to that extent, and in that jurisdiction, be treated as deleted from these Conditions. This does not affect the validity or enforceability of the remaining provisions in that jurisdiction, or of the deleted provision in any other jurisdiction.

11.4 Reckli may assign or otherwise deal with the benefit of any contract made pursuant to these Conditions without the consent of the Customer. The Customer may not assign its rights under a contract or lease, licence or loan the Goods to any third party or grant a security interest in the Goods without prior notice to and written consent from Reckli.

11.5 The Customer must not disclose Reckli's Confidential Information unless the Customer receives the prior written consent of Reckli, such information enters the public domain (other than as a result of a breach by the Customer) or its use or disclosure is required by law.

12.0 Jurisdiction

The law of the state or territory in which Reckli delivers Goods to the Customer is the proper law of these Conditions. The parties irrevocably submit to the nonexclusive jurisdiction of the courts of Victoria.

Experience and Quality

National Centre 84 Hunter Road Derrimut, Victoria, 3026 Australia **TEL:** 1800 176 044 **E** australia@reckli.com.au **W** www.reckli.com.au

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...Why Reckli? Reliability ... German quality.

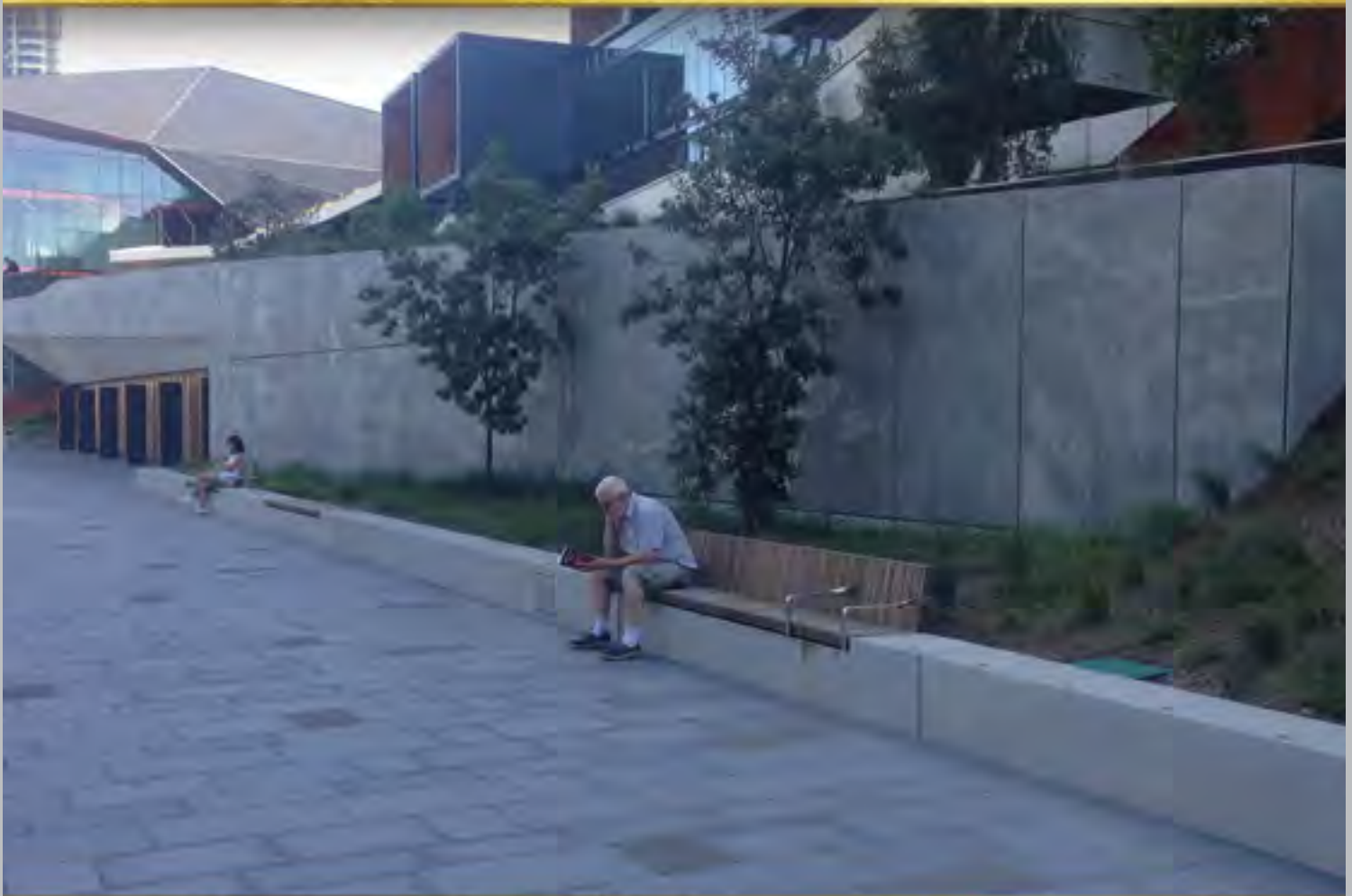
Experience ... We've been making moulds since 1968.

Care ... We are focused on the best visual result.

Know how ... We've been involved in Thousands of projects worldwide.

Local office ... Supported by an international network with offices in over 65 countries.

Integrity ... Be assured that we will work ethically and professionally.



RECKLI®
FORM-LINERS & MOULDS

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