

NEW ONE BAR PROPELLER PLATE

ALUMINIUM

PRODUCT GUIDE

- + Prompt delivery from North and South island locations
- + Robust procurement for quality and sustainable product
- + A selection of grades, tempers, and covers to choose from



Aluminium enquiries

0800 478 335 | sales@steelandtube.co.nz | steelandtube.co.nz

DISCLAIMER: This publication is intended to provide information to the best of our knowledge in regard to Steel & Tube's aluminium product offering. It does not constitute a complete description of the goods or an express statement about their suitability for any particular purpose. All measurements are displayed in millimeters unless otherwise stated. All weight measurements displayed may vary based on nominal density, composition tolerance, and mill processing.

You Spoke, We Listened

Since introducing Aluminium in October 2023, Steel & Tube have listened to customer feedback and tailored our stocked range to the engineers and fabricators of New Zealand.

Our fourth customer-focused expansion includes Round Tube, Square and Rectangular Hollow Sections, as well as additional variants of Flats, Rounds, Channels and Angles from our last update. The selection in this brochure covers a range of common sizes, grades and tempers, but if you have specific requirements for your business get in touch today to discuss sourcing your material needs.

ACCESS TO SPECIALIST SUPPORT

Steel & Tube is dedicated to making your projects run smoothly from beginning to end. Since 1953 we have acquired a wealth of industry knowledge in specialist areas like Stainless Steel, Building Services, Fastenings, and so much more. Utilising the combined offering of knowledge, services, branch network, and smart procurement, we have positioned ourselves well to continue to deliver project success and provide innovative solutions.

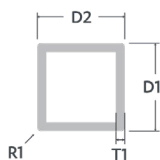
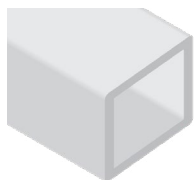
SELECTION OF PROTECTIVE COVERS FOR ROLLED PRODUCTS

PE	PEF	PI
50 Micron Removable Polyurethane	100 Micron Removable Fibre Laser Film	Paper Interleaved

SUSTAINABILITY AND QUALITY FOCUSED

Where possible, we offer low-carbon metals, while ensuring quality and consistency for our customers. Our procurement team and external auditors evaluate suppliers against strict criteria such as Modern Slavery, ESG, Quality Control, Delivery Performance, and more, so that our customers can have peace of mind when buying with Steel & Tube.



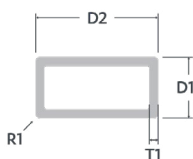
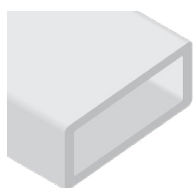


SQUARE HOLLOW SECTION

D1 Height (mm)
D2 Width (mm)
T1 Thickness (mm)

Diagram for illustrative purposes only and not intended for specification use. For more information, different sizes, alloy and tempers, please contact Steel & Tube.

PRODUCT CODE	D1	D2	T1	R1	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)
P0121350	20	x 20	x 3.0		5,000	6060	T5	0.553
P0121351	25	x 25	x 1.6		5,000	6060	T5	0.406
P0121352	25	x 25	x 3.0		5,000	6060	T5	0.715
P0123627	32	x 32	x 3.0		5,000	6060	T5	0.943
P0121353	40	x 40	x 2.0		5,000	6060	T5	0.824
P0121354	40	x 40	x 3.0		5,000	6060	T5	1.203
P0123614	40	x 40	x 3.0	3.0	5,000	6060	T5	1.184
P0121355	50	x 50	x 3.0		5,000	6060	T5	1.528
P0123615	50	x 50	x 3.0	3.0	5,000	6060	T5	1.510
P0121356	50	x 50	x 5.0		5,000	6060	T5	2.439
P0123626	50	x 50	x 5.0	4.0	5,000	6060	T5	2.411
P0121357	75	x 75	x 3.0		5,000	6060	T5	2.341
P0121358	100	x 100	x 3.0		5,000	6060	T5	3.154

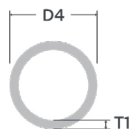
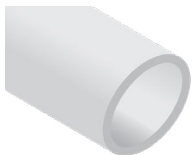


RECTANGULAR HOLLOW SECTION

D1 Height (mm)
D2 Width (mm)
T1 Thickness (mm)

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PRODUCT CODE	D1	D2	T1	R1	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)
P0121359	40	x 20	x 3.0		5,000	6060	T5	0.878
P0123616	50	x 25	x 3.0	3.0	5,000	6060	T5	1.100
P0121361	50	x 25	x 3.0		5,000	6060	T5	1.122
P0121362	50	x 40	x 3.0		5,000	6060	T5	1.366
P0121363	60	x 35	x 5.0	4.0	5,000	6060	T5	2.304
P0121364	75	x 50	x 3.0		5,000	6060	T5	1.935
P0121365	80	x 40	x 3.0		5,000	6060	T5	1.854
P0121366	80	x 40	x 6.0		5,000	6060	T5	3.512
P0123617	80	x 50	x 3.0	3.0	5,000	6060	T5	1.996
P0121369	100	x 25	x 2.5		5,000	6060	T5	1.626
P0123618	100	x 50	x 3.0	4.0	5,000	6060	T5	2.308
P0121367	100	x 50	x 3.0		5,000	6060	T5	2.341
P0121368	100	x 50	x 6.0		5,000	6060	T5	4.488
P0121370	150	x 50	x 3.0		5,000	6060	T5	3.143
P0121371	200	x 50	x 3.0		5,000	6060	T5	3.967

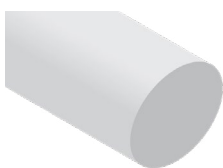


ROUND TUBE

D4 Outer Diameter (mm)
T1 Thickness (mm)

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PRODUCT CODE	D4	T1	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)
P0123634	19.00	x 1.20	5,000	6060	T5	0.182
P0121344	25.00	x 3.00	5,000	6060	T5	0.560
P0121345	32.00	x 3.00	5,000	6060	T5	0.740
P0121346	40.00	x 3.00	5,000	6060	T5	0.944
P0121360	50.00	x 2.00	5,000	6060	T5	0.816
P0121347	50.00	x 3.00	5,000	6060	T5	1.199
P0123635	63.50	x 3.25	5,000	6060	T5	1.661
P0121348	75.00	x 3.00	5,000	6060	T5	1.836
P0121349	100.00	x 3.00	5,000	6060	T5	2.474

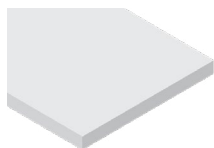


ROUND BAR

D4 Outer Diameter (mm)

Diagram for illustrative purposes only and not intended for specification use. For more information, different sizes, alloy and tempers, please contact Steel & Tube.

PRODUCT CODE	D4	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)
P0111789	6.35	4,000	6060	T5	0.086
P0111790	9.53	4,000	6060	T5	0.194
P0111791	12.70	4,000	6060	T5	0.344
P0111792	15.88	4,000	6060	T5	0.538
P0123636	19.05	4,000	6061	T6	0.733
P0111793	25.40	4,000	6061	T6	1.375
P0111794	31.75	4,000	6061	T6	2.149
P0111795	38.10	4,000	6061	T6	3.095
P0111796	50.80	4,000	6061	T6	5.502
P0111797	76.20	4,000	6061	T6	12.379
P0111798	88.90	4,000	6061	T6	16.85

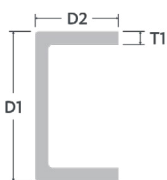
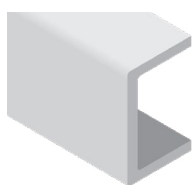


FLAT BAR

D2 Width (mm)
T1 Thickness (mm)

Diagram for illustrative purposes only and not intended for specification use. For more information, different sizes, alloy and tempers, please contact Steel & Tube.

PRODUCT CODE	D2	T1	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)
PO111775	12	x 3.0	4,000	6060	T5	0.098
PO123632	20	x 3.0	5,000	6060	T5	0.162
PO111776	25	x 3.0	5,000	6060	T5	0.203
PO111777	25	x 6.0	4,000	6060	T5	0.407
PO121341	30	x 3.0	4,000	6060	T5	0.244
PO111778	40	x 3.0	4,000	6060	T5	0.325
PO111779	40	x 6.0	4,000	6060	T5	0.650
PO111780	40	x 10.0	4,000	6060	T5	1.084
PO111781	50	x 3.0	4,000	6060	T5	0.407
PO111782	50	x 6.0	4,000	6060	T5	0.813
PO111783	50	x 10.0	4,000	6060	T5	1.355
PO111784	60	x 3.0	4,000	6060	T5	0.488
PO111785	60	x 6.0	4,000	6060	T5	0.976
PO121342	75	x 3.0	4,000	6060	T5	0.610
PO123633	75	x 6.0	5,000	6060	T5	1.215
PO111786	100	x 3.0	4,000	6060	T5	0.813
PO111787	100	x 6.0	4,000	6060	T5	1.626
PO111788	100	x 10.0	4,000	6061	T6	2.710

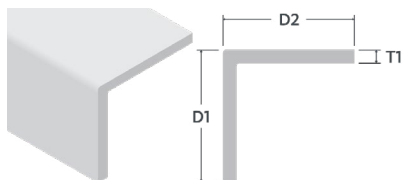


CHANNEL

D1 Height (mm)
D2 Width (mm)
T1 Thickness (mm)

Diagram for illustrative purposes only and not intended for specification use. For more information, different sizes, alloy and tempers, please contact Steel & Tube.

PRODUCT CODE	D1	D2	T1	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)
PO111755	20	x 20	x 3.0	5,000	6060	T5	0.439
PO111756	25	x 25	x 3.0	5,000	6060	T5	0.561
PO111757	40	x 12	x 3.0	5,000	6060	T5	0.472
PO111758	40	x 20	x 3.0	5,000	6060	T5	0.602
PO111759	50	x 25	x 3.0	5,000	6060	T5	0.764
PO111760	50	x 50	x 3.0	5,000	6060	T5	1.166
PO121328	75	x 40	x 3.0	5,000	6060	T5	1.211
PO111761	100	x 50	x 3.0	5,000	6060	T5	1.571

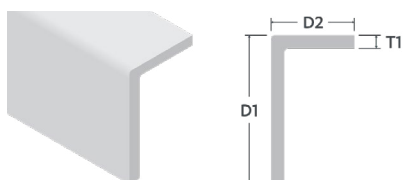


EQUAL ANGLE

D1 Height (mm)
D2 Width (mm)
T1 Thickness (mm)

Diagram for illustrative purposes only and not intended for specification use. For more information, different sizes, alloy and tempers, please contact Steel & Tube.

PRODUCT CODE	D1		D2		T1	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)
P0121330	20	x	20	x	1.6	5,000	6,060	T5	0.167
P0111762	20	x	20	x	3.0	5,000	6,060	T5	0.301
P0121331	25	x	25	x	1.6	5,000	6,060	T5	0.210
P0111763	25	x	25	x	3.0	5,000	6,060	T5	0.380
P0111764	30	x	30	x	3.0	5,000	6,060	T5	0.462
P0111765	40	x	40	x	1.6	5,000	6,060	T5	0.340
P0111766	40	x	40	x	3.0	5,000	6,060	T5	0.626
P0111767	40	x	40	x	6.0	5,000	6,060	T5	1.203
P0121332	50	x	50	x	1.6	5,000	6,060	T5	0.427
P0111768	50	x	50	x	3.0	5,000	6,060	T5	0.789
P0123628	50	x	50	x	4.5	5,000	6,060	T5	1.160
P0111769	50	x	50	x	6.0	5,000	6,060	T5	1.528
P0121333	75	x	75	x	3.0	5,000	6,060	T5	1.195
P0121334	100	x	100	x	6.0	5,000	6,060	T5	3.154

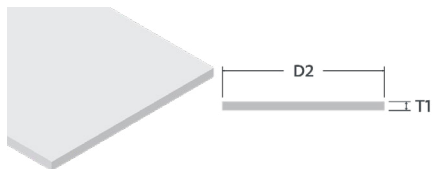


UNEQUAL ANGLE

D1 Height (mm)
D2 Width (mm)
T1 Thickness (mm)

Diagram for illustrative purposes only and not intended for specification use. For more information, different sizes, alloy and tempers, please contact Steel & Tube.

PRODUCT CODE	D1	D2	T1	LENGTH	ALLOY	TEMPER	WEIGHT (kg/m)		
P0111770	32	x	20	x	1.5	5,000	6,060	T5	0.205
P0111771	40	x	25	x	3.0	5,000	6,060	T5	0.504
P0123629	50	x	25	x	1.6	5,000	6,060	T5	0.316
P0111772	50	x	25	x	3.0	5,000	6,060	T5	0.585
P0121335	50	x	40	x	3.0	5,000	6,060	T5	0.707
P0123630	75	x	25	x	3.0	5,000	6,060	T5	0.786
P0121336	75	x	50	x	3.0	5,000	6,060	T5	0.992
P0121337	75	x	50	x	4.5	5,000	6,060	T5	1.469
P0111773	75	x	50	x	6.0	5,000	6,060	T5	1.935
P0121338	80	x	40	x	3.0	5,000	6,060	T5	0.951
P0111774	100	x	50	x	3.0	5,000	6,060	T5	1.195
P0123631	100	x	50	x	6.0	5,000	6,060	T5	2.333
P0121339	150	x	75	x	6.0	5,000	6,061	T6	3.561
P0121340	150	x	75	x	8.0	5,000	6,061	T6	4.705



SHEET AND PLATE

D2 Width (mm)
T1 Thickness (mm)

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PRODUCT CODE	T1	D2	AVAILABLE LENGTHS			COVER	ALLOY	TEMPER	WEIGHT (kg/M ²)*
			2.4 m	3.0 m	3.6 m				
P0079225	0.9	1,200	✓			PE	5005	H34	2.43
P0086972	1.2	1,200	✓			PE	5005	H32	3.24
P0079635	1.5	1,200	✓			PE	5005	H34	4.05
P0079636	1.5	1,500		✓		PEF	5005	H32	4.05
P0086971	2.0	1,200	✓	✓	✓	PE	5005	H32	5.40
P0079491	2.0	1,200	✓	✓	✓	PEF	5005	H32	5.40
P0086971	2.0	1,500		✓	✓	PE	5005	H32	5.40
P0079491	2.0	1,500		✓	✓	PEF	5005	H32	5.40
P0079230	2.5	1,200	✓			PE	5005	H34	6.75
P0079492	2.5	1,200	✓			PEF	5005	H32	6.75
P0079639	3.0	1,200	✓	✓	✓	PE	5005	H32	8.10
P0079493	3.0	1,200	✓	✓	✓	PEF	5005	H32	8.10
P0079639	3.0	1,500		✓	✓	PE	5005	H32	8.10
P0079493	3.0	1,500		✓	✓	PEF	5005	H32	8.10
P0079494	4.0	1,200	✓			PEF	5005	H32	10.80
P0079488	1.2	1,200	✓			PE	5052	H32	3.22
P0079251	1.6	1,200	✓			PE	5052	H32	4.29
P0079251	1.6	1,500		✓		PE	5052	H32	4.29
P0079241	2.0	1,200	✓	✓	✓	PE	5052	H32	5.36
P0079489	2.0	1,200		✓	✓	PEF	5052	H32	5.36
P0079241	2.0	1,500		✓	✓	PE	5052	H32	5.36
P0079489	2.0	1,500		✓	✓	PEF	5052	H32	5.36
P0079243	2.5	1,200	✓			PE	5052	H32	6.70
P0079242	2.5	1,200	✓			PEF	5052	H32	6.70
P0079243	2.5	1,500		✓		PE	5052	H32	6.70
P0079245	3.0	1,200	✓	✓	✓	PE	5052	H32	8.04
P0079244	3.0	1,200	✓	✓	✓	PEF	5052	H32	8.04
P0079245	3.0	1,500		✓	✓	PE	5052	H32	8.04
P0079244	3.0	1,500		✓	✓	PEF	5052	H32	8.04
P0079246	4.0	1,200	✓			PEF	5052	H32	10.72
P0079246	4.0	1,500		✓		PEF	5052	H32	10.72
P0079247	5.0	1,200	✓	✓		PEF	5052	H32	13.40
P0079248	6.0	1,200	✓			PEF	5052	H32	16.08
P0079248	6.0	1,500		✓		PEF	5052	H32	16.08
P0079642	8.0	1,500		✓		PE	5052	H32	21.44
P0079643	10.0	1,500		✓		PE	5052	H32	26.80
P0079644	12.0	1,500		✓		PE	5052	H32	32.16

PLEASE NOTE: when calculating your sheet weight, this table displays KG/M², compared to KG/M as seen elsewhere in this catalogue.

✓ = available lengths. Additional options can be arranged through our indent trading team, subject to minimum order quantities and availability.



ALUMINIUM COIL

D2 Width (mm)
T1 Thickness (mm)

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PRODUCT CODE	T1	D2	COVER	ALLOY	TEMPER	WEIGHT (kg/m)
P0086983	0.9	x 1,200	PI	5005	H32	2.916
P0086970	1.2	x 1,200	PE	5005	H32	3.888
P0086988	1.2	x 1,200	PEF	5005	H32	3.888
P0079640	1.6	x 1,200	PE	5005	H32	5.184
P0086987	1.6	x 1,200	PEF	5005	H32	5.184
P0079495	2.0	x 1,200	PE	5005	H32	6.480
P0086984	2.0	x 1,200	PEF	5005	H32	6.480
P0079496	2.5	x 1,200	PE	5005	H32	8.100
P0079497	3.0	x 1,200	PE	5005	H32	9.720
P0086985	3.0	x 1,200	PEF	5005	H32	9.720
P0086970	1.2	x 1,500	PE	5005	H32	4.860
P0079640	1.6	x 1,500	PE	5005	H32	6.480
P0079495	2.0	x 1,500	PE	5005	H32	8.100
P0086984	2.0	x 1,500	PEF	5005	H32	8.100
P0079496	2.5	x 1,500	PE	5005	H32	10.125
P0079497	3.0	x 1,500	PE	5005	H32	12.150
P0086985	3.0	x 1,500	PEF	5005	H32	12.150
P0079498	2.0	x 1,200	PE	5052	H32	6.432
P0079499	2.5	x 1,200	PE	5052	H32	8.040
P0079500	3.0	x 1,200	PE	5052	H32	9.648
P0086986	3.0	x 1,200	PEF	5052	H32	9.648
P0079637	1.2	x 1,500	PE	5052	H32	4.824
P0079498	2.0	x 1,500	PE	5052	H32	8.040
P0079500	3.0	x 1,500	PE	5052	H32	12.060
P0086986	3.0	x 1,500	PEF	5052	H32	12.060

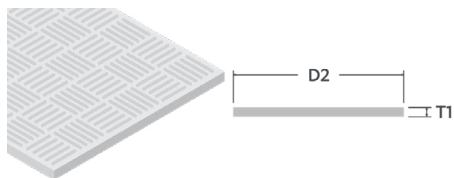
BESPOKE CUT TO LENGTH SERVICE

Through our non-ferrous metals line, Steel & Tube can cut aluminium sheets to length, from 250 mm all the way to seven meters long. Once cut to your desired length, you have the option of four polishing finishes and the choice between polyurethane protective film or paper interleaving.

*Maximum cut length subject to material thickness. **Minimum order quantity may apply**

SPECIFICATIONS

SIZE	MINIMUM	MAXIMUM
Coil Thickness	0.9	3.0
Cut length	250	7,000*
Width	500	1,524
Polishing	Option of 80, 100, 120 and 180 grit polishing finish. PE film can be applied after polishing	



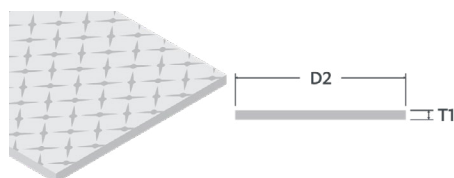
5 BAR TREAD / FLOOR PLATE

D2 Width (mm)
T1 Thickness (mm)

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PRODUCT CODE	T1	LENGTH (m)	D2	COVER	ALLOY	TEMPER
P0079505	2.0	2.4 x	1,200	PI	5052	H114 *
P0079239	3.0	2.4 x	1,200	PI	5052	H114 *
P0079240	5.0	2.4 x	1,200	PI	5052	H114 *
P0079502	6.0	2.4 x	1,200	PI	5052	H114 *
P0079239	3.0	3.0 x	1,500	PI	5052	H114 *
P0078923	4.0	3.0 x	1,500	PI	5052	H114 *
P0079240	5.0	3.0 x	1,500	PI	5052	H114 *
P0079501	6.0	3.0 x	1,500	PE	5052	H114 *

*Steel & Tube may substitute H114 for O temper at any time, subject to material availability



1 BAR TREAD / PROPELLER PLATE

D2 Width (mm)
T1 Thickness (mm)

Diagram for illustrative purposes only and not intended for specification use. For more information, different sizes, alloy and tempers, please contact Steel & Tube.

PRODUCT CODE	T1	LENGTH (m)	D2	COVER	ALLOY	TEMPER
P0121633	1.6	2.4 x	1,200	PI	3003	H22
P0121634	3.0	2.4 x	1,200	PI	3003	H22

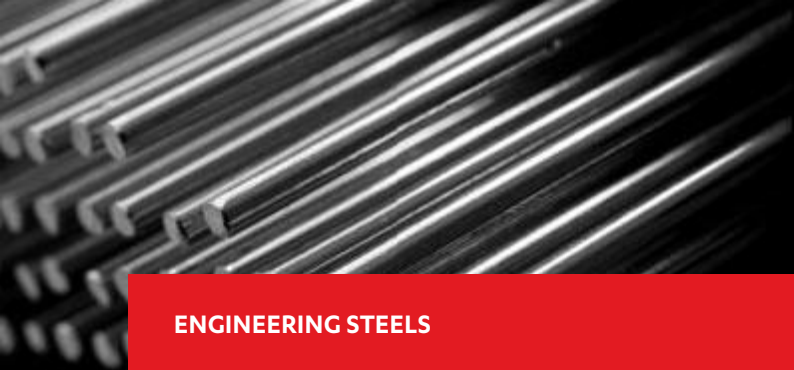
MINIMUM BEND RADIUS FOR SHEET OR PLATE THICKNESS (T1)

Recommended Minimum Inside Bend Radii for 90 Degree Cold Forming of Sheet and Plate, transverse to the rolling direction. These values are recommended but are not guaranteed.

ALLOY	TEMPER	THICKNESS	0.8	1.6	3.2	4.8	6.0	10.0	12.0
5005	H32		0.0 t	0.0 t	0.5 t	1.0 t	1.0 t	1.5 t	2.0 t
5005	H34		0.0 t	0.0 t	1.0 t	1.5 t	1.5 t	2.0 t	2.5 t
5052	H32		0.0 t	1.0 t	1.5 t	1.5 t	1.5 t	1.5 t	2.0 t
5052	H34		1.0 t	1.5 t	2.0 t	2.0 t	2.5 t	2.5 t	3.0 t

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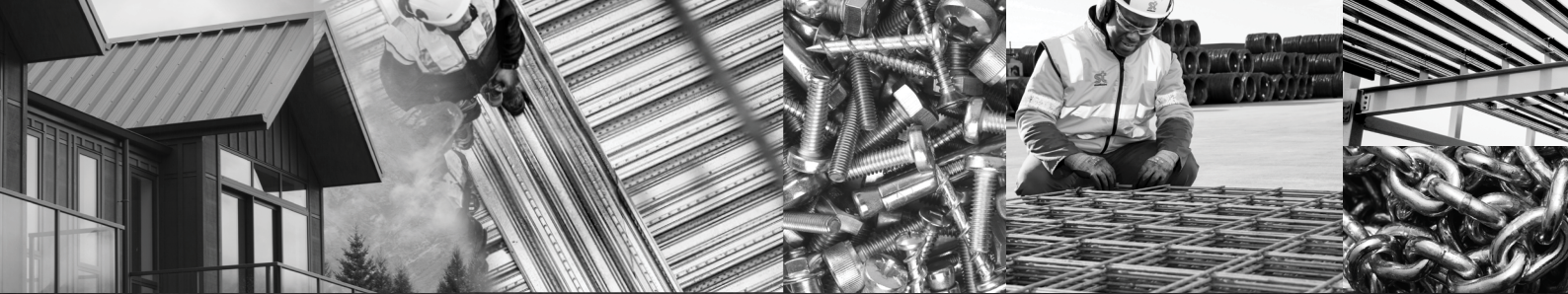
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