

PSL INTRODUCTION

Welcome to PSL - the home of Innovative Aluminium solutions.

We are experts in designing, producing and specifying aluminium profile and joinery systems. For use within the commercial and the residential construction sector, our innovative aluminium solutions are highly successful.

This compendium of innovative aluminium solutions contains all the details of our profiles, allowing you to specify with confidence and accuracy.

For projects that require a unique solution, PSL love to design new profiles that provide elegant solutions. That's how many of the profiles contained within this catalogue came into existence.

Our support team is always available should you require further information or if you would like us to review your detailing.

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PSL – INTERNAL PARTITIONS MADE EASY.



FEATURE

We use heavier weight aluminum for our profile suites.

Alement Plus is a PSL patented product allowing you to create negative details.

PSL are specialists in partitions and doors, this is what we do.

Free design review service.



BENEFIT

Maintains linear stability over longer lengths. Cutting on site is easier and less dangerous.

Give your clients a point of difference with perfect negative details. Add powder coat colours to accent and highlight.

Get the correct information from a team that understands what is required in the design phase and on site.

Say goodbye to RFI's, simply call PSL and we'll review your design to ensure the best result.

SEISMIC BRACING TRACKLOK™

// Secures partition walls and glazing lines, under ceiling to slab above.

// Designed and tested to mitigate risk to life and property.

// Applicable to all seismic zones and all seismic loads.

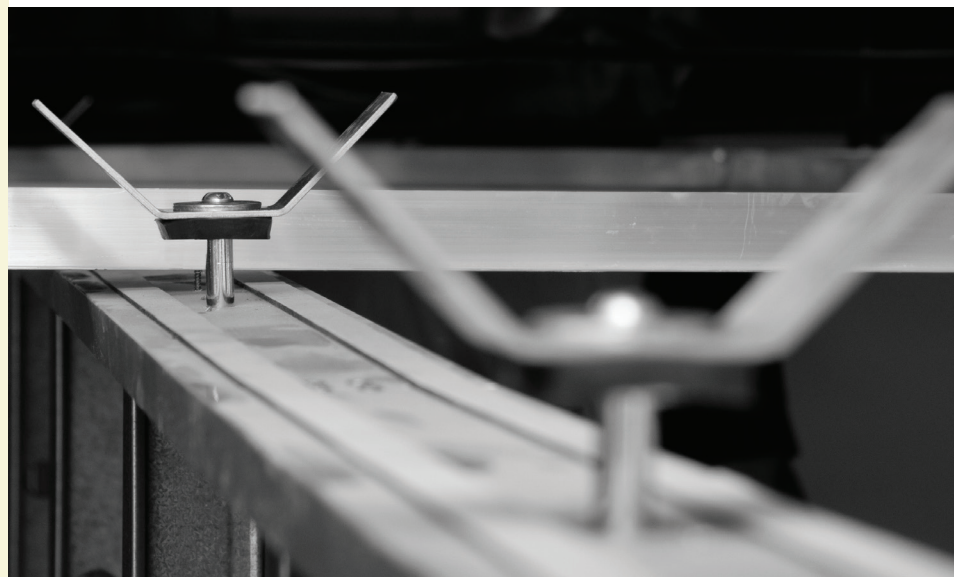
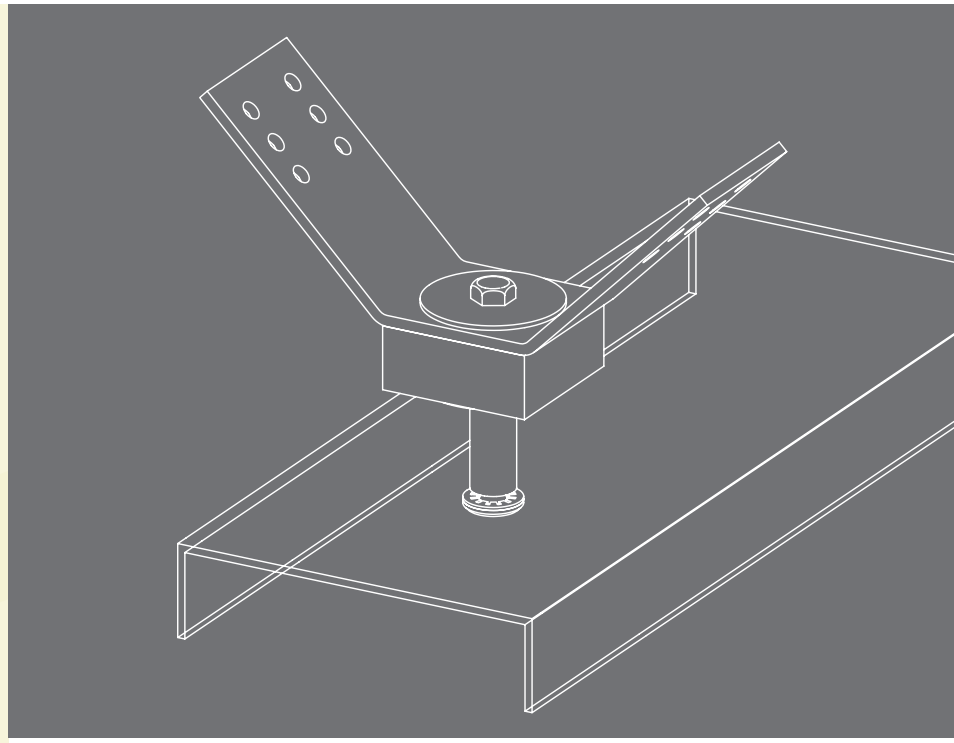
// Meets or exceeds all national code requirements.

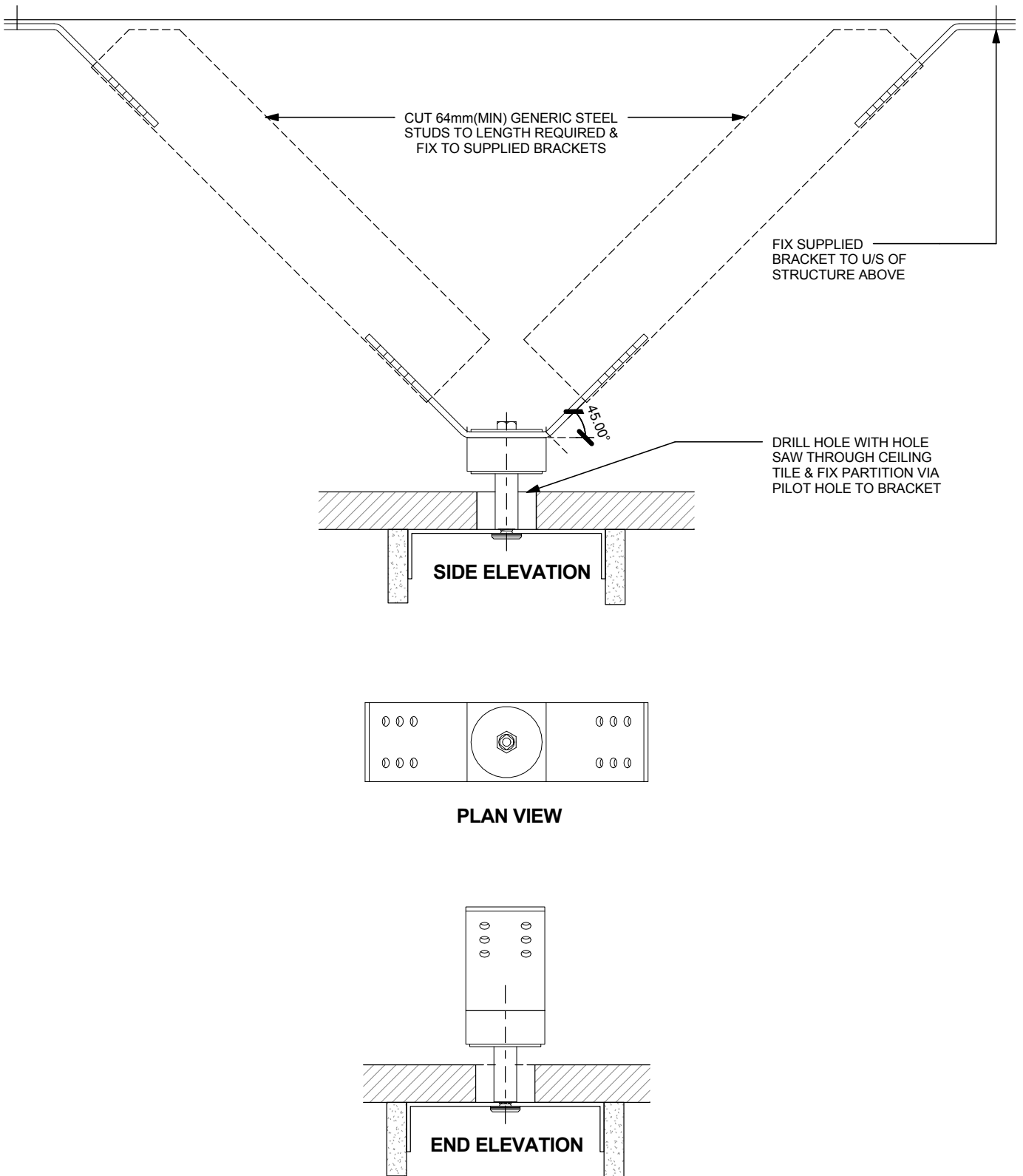
// Unique design for variable bracing stock to be utilized, reducing waste.

// Low profile allows installation in partition and glazing head tracks.

// Engineered to eliminate ceiling grid interaction and to protect warranty.

// Designed to absorb seismic energy, reducing partition wall failure.





IMPORTANCE LEVEL 2 - NORMAL STRUCTURES*

*Refer to AS/NZS1170.0:2002 for guidance

PARTITION WEIGHT/m ²	PARTITION HEIGHT
40.8kg/m ²	2.7m

AUCKLAND				CHRISTCHURCH				WELLINGTON (BUILDING PERIOD <1.5 sec)			
Z=0.13, Soil Class C, IL=2		LOAD/m	MAX	Z=0.3, Soil Class D, IL=2		LOAD/m	MAX	Z=0.4, Soil Class D, IL=2		LOAD/m	MAX
HEIGHT (m)	Cp	kN/m	centres/m	HEIGHT (m)	Cp	kN/m	c/c	HEIGHT (m)	Cp	kN/m	c/c
3	0.52	0.2808	2.4	3	1.01	0.5454	2.4	3	1.34	0.7236	2.4
6	.069	.03726	2.4	6	1.34	.07236	2.4	6	1.79	0.9666	2.4
9	0.86	0.4644	2.4	9	1.68	0.9072	2.4	9	2.24	1.2096	2.2
>=12	1.04	0.5616	2.4	>=12	2.02	1.0908	2.4	>=12	2.69	1.4526	1.8

PARTITION WEIGHT/m ²	PARTITION HEIGHT
40.8kg/m ²	3m

AUCKLAND				CHRISTCHURCH				WELLINGTON (BUILDING PERIOD <1.5 sec)			
Z=0.13, Soil Class C, IL=2		LOAD/m	MAX	Z=0.3, Soil Class D, IL=2		LOAD/m	MAX	Z=0.4, Soil Class D, IL=2		LOAD/m	MAX
HEIGHT (m)	Cp	kN/m	centres/m	HEIGHT (m)	Cp	kN/m	c/c	HEIGHT (m)	Cp	kN/m	c/c
3	0.52	0.312	2.4	3	1.01	0.606	2.4	3	1.34	.804	2.4
6	0.69	0.414	2.4	6	1.34	0.804	2.4	6	1.79	1.074	2.4
9	0.86	0.516	2.4	9	1.68	1.008	2.4	9	2.24	1.344	1.9
>=12	1.04	0.624	2.4	>=12	2.02	1.212	2.2	>=12	2.69	1.614	1.6

GENERAL NOTES - Height (m)=height of floor above partition being connected.

- The above tables are for importance level 2 (IL=2) buildings in accordance with table AS/NZS1170.0:2002 NORMAL STRUCTURES
- Design based on Rp=1.0 for parts and 50 year design life
- Please refer to the soil classes used for each location. If the soil class differs from what is stated then a specific design is required.
- Maximum c/c set to 2.4m assuming top track can span this distance. Specifiers should ensure that the top track can span for spacing and ULS horizontal load/m stated.
- Wind load is applicable for up to Very High Wind (1.5 kPa), for buildings with 2, 3 or 4 walls of equal permeability. For wind pressures >1.5kPa, or for buildings with dominant openings or permeability on 1 side a specific design is required. In accordance with AS/NZS1170:2011 clause 5.3.4 and table 5.1(A) a nett pressure coefficient of -0.3 + -0.2 = -0.5 has been applied for internal partitions.

Note for Wellington provided the period of the building is <1.5 then the near fault factor does not apply. For buildings with a period >1.5 then a specific design is required.

IMPORTANCE LEVEL 3 - PUBLIC BUILDINGS, SCHOOLS, HOSPITALS, CROWDS ETC*

*Refer to AS/NZS1170.0:2002 for guidance

PARTITION WEIGHT/m ²	PARTITION HEIGHT
40.8kg/m ²	2.7m

AUCKLAND				CHRISTCHURCH				WELLINGTON (BUILDING PERIOD <1.5 sec)			
Z=0.13, Soil Class C, IL=3		LOAD/m	MAX	Z=0.3, Soil Class D, IL=3		LOAD/m	MAX	Z=0.4, Soil Class D, IL=3		LOAD/m	MAX
HEIGHT (m)	Cp	kN/m	centres/m	HEIGHT (m)	Cp	kN/m	c/c	HEIGHT (m)	Cp	kN/m	c/c
3	0.67	0.3618	2.4	3	1.31	0.7074	2.4	3	1.75	0.945	2.4
6	0.9	0.486	2.4	6	1.74	0.9396	2.4	6	2.33	1.2582	2.1
9	1.12	0.6048	2.4	9	2.18	1.1772	2.2	9	2.91	1.5714	1.7
>=12	1.35	0.729	2.4	>=12	2.62	1.4148	1.8	>=12	3.49	1.8846	1.4

PARTITION WEIGHT/m ²	PARTITION HEIGHT
40.8kg/m ²	3m

AUCKLAND				CHRISTCHURCH				WELLINGTON (BUILDING PERIOD <1.5 sec)			
Z=0.13, Soil Class C, IL=3		LOAD/m	MAX	Z=0.3, Soil Class D, IL=3		LOAD/m	MAX	Z=0.4, Soil Class D, IL=3		LOAD/m	MAX
HEIGHT (m)	Cp	kN/m	centres/m	HEIGHT (m)	Cp	kN/m	c/c	HEIGHT (m)	Cp	kN/m	c/c
3	0.67	0.402	2.4	3	1.31	0.786	2.4	3	1.75	1.05	2.4
6	0.9	0.54	2.4	6	1.74	1.044	2.4	6	2.33	1.398	1.9
9	1.12	0.6272	2.4	9	2.18	1.308	2.0	9	2.91	1.746	1.5
>=12	1.35	0.81	2.4	>=12	2.62	1.572	1.6	>=12	3.49	2.094	1.2

GENERAL NOTES - Height (m)=height of floor above partition being connected.

- The above tables are for importance level 3 (IL=3) buildings in accordance with table AS/NZS1170.0:2002 PUBLIC BUILDINGS, SCHOOLS, HOSPITALS, CROWDS ETC
- Design based on Rp=1.0 for parts and 50 year design life
- Please refer to the soil classes used for each location. If the soil class differs from what is stated then a specific design is required.
- Maximum c/c set to 2.4m assuming top track can span this distance. Specifiers should ensure that the top track can span for spacing and ULS horizontal load/m stated.
- Wind load is applicable for up to Very High Wind (1.5 kPa), for buildings with 2, 3 or 4 walls of equal permeability. For wind pressures >1.5kPa, or for buildings with dominant openings or permeability on 1 side a specific design is required. In accordance with AS/NZS1170:2011 clause 5.3.4 and table 5.1(A) a nett pressure coefficient of -0.3 + -0.2 = -0.5 has been applied for internal partitions.

Note for Wellington provided the period of the building is <1.5 then the near fault factor does not apply. For buildings with a period >1.5 then a specific design is required.



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TRACKLOK SEISMIC BRACING