

**AS/NZS1170
COMPLIANT**

Steel Stud & Track System Height Tables



General Offices

Apartments

Hotels

Retail Malls

Hospitals

Banks

Showrooms

Education

Industrial

Fire rated areas

USG drywall steel stud and track systems offer practical and economical solutions for screw fixing plasterboard to internal, non-load bearing partitions, fire and acoustic rated walls, stairwells, bulkheads and corridor ceilings.

Dimensionally stable, they stay straight and true, saving on time, materials and labour. They are strong, yet lightweight, easy to handle and require few tools

For fire protection and safety, USG Steel Stud & Track System can provide a number of different Fire Resistant Ratings in combination with the appropriate plasterboard lining.



Lightweight and Stable

Standards and Building Codes

USG uses the following Standards in its manufacturing, testing and marketing policies for compliance with the Building Code of New Zealand

- AS/NZS 1397 - Steel Sheet and Strip
- AS1530.4 - Fire Resistance of Elements of Building Construction
- AS/NZS 4600 - Cold Formed Steel Structures Code
- AS/NZS 1170 - Structural Design Actions
- NZBC – B1/VM1 - NZ Building Code Verification Method B1/VM1 Clause 2
- NZBC – B2 Durability - USG Drywall Steel Stud & Track system will have a minimum serviceable life of 15 years when installed in a dry, non-corrosive, interior installation

ISO 9000 Quality Assurance

USG Interiors Pacific Ltd is an accredited ISO 9001 – 2000 manufacturer
Licence No. 5044

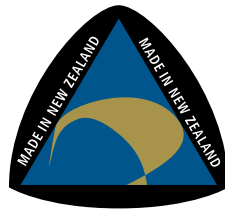


Quality
ISO 9001



ADVANTAGES of USG Steel Stud

- For all areas requiring a smoothly finished, monolithic wall plane
- Flat or curved
- Fire Resistant Ratings
- Flexibility of configuration
- Dimensionally stable
- Impervious to rot, fungal and insect attack
- Corrosion resistant
- Won't warp, twist or bow
- Easily worked, few tools required
- Non-combustible
- New Zealand made for New Zealand conditions



Contents

System Components	Page 4
Standards References	5
Project Information	6
Wind Speed Table Selectors	7
Wall Height Tables	8-15

Certification


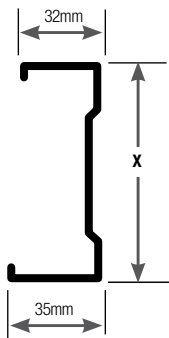
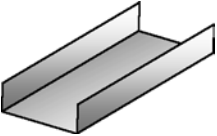
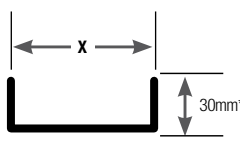
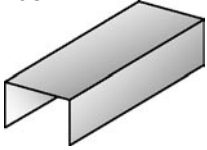
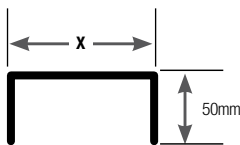
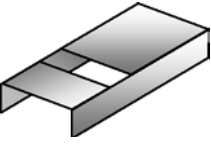
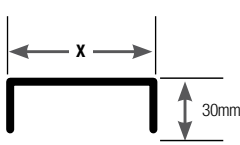
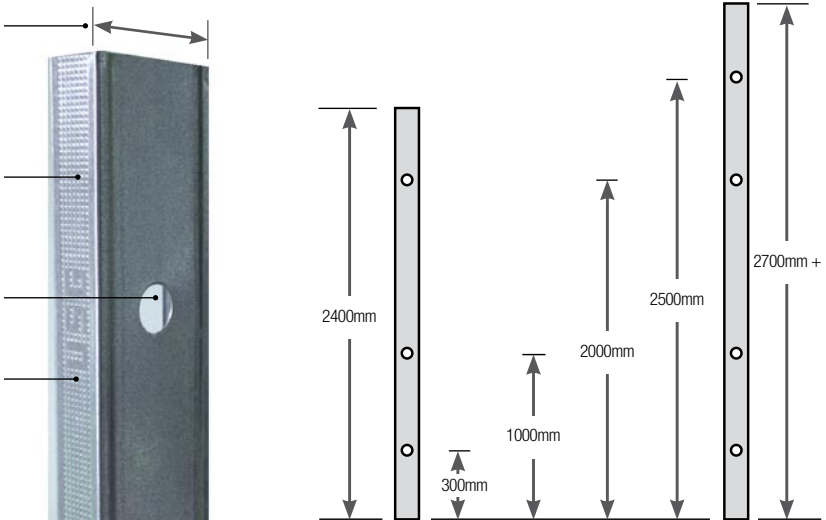
I, Ernest B Laphis, MICE C. Eng. (London); FIPENZ (Structural); CPEng; IntPE (NZ), hereby certify that maximum height tables prepared for USG non-loadbearing steel stud and track systems, comply with the requirements of: AS/NZS 1170 Structural Design Actions, AS/NZS 4600:2005 Cold Form Steel Structures Code, and the New Zealand Building Code

Managing Director
Laphis Enterprises Ltd

Testing and Calculations

Physical testing was conducted at the Civil Materials Laboratory, Department of Civil and Resource Engineering, University of Auckland. Structural engineers Laphis Enterprises Ltd were engaged to calculate from the test results the maximum allowable wall heights, summarized in the tables on pages 8-15, based on the criteria outlined in this brochure.

USG Steel Stud and Track systems are manufactured in New Zealand using New Zealand Steel, in a variety of industry standard depths, lengths and gauges to suit the majority of interior partition system requirements. (Options not specifically listed may be able to be manufactured subject to engineering data and minimum order quantities.)

Stud 		<table border="1"> <thead> <tr> <th></th> <th colspan="6">Stud Depth X mm</th> </tr> </thead> <tbody> <tr> <th>BMT</th> <td>51</td> <td>64</td> <td>75</td> <td>92</td> <td>100</td> <td>150</td> </tr> <tr> <th>0.50</th> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>0.55</th> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td></td> </tr> <tr> <th>0.75</th> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> </tbody> </table>		Stud Depth X mm						BMT	51	64	75	92	100	150	0.50	•	•					0.55		•	•	•	•		0.75		•	•	•	•	•							
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Nogging Track 	 <p>0.75 BMT 3600mm long</p>	<table border="1"> <thead> <tr> <th></th> <th colspan="6">Track Depth X mm</th> </tr> </thead> <tbody> <tr> <th>Centres</th> <td>51</td> <td>64</td> <td>75</td> <td>92</td> <td>100</td> <td>150</td> </tr> <tr> <th>300</th> <td>N/A</td> <td>#</td> <td>#</td> <td>#</td> <td>#</td> <td>#</td> </tr> <tr> <th>400</th> <td>N/A</td> <td>#</td> <td>#</td> <td>#</td> <td>#</td> <td>#</td> </tr> <tr> <th>450</th> <td>N/A</td> <td>#</td> <td>#</td> <td>#</td> <td>#</td> <td>#</td> </tr> <tr> <th>600</th> <td>N/A</td> <td>•</td> <td>#</td> <td>•</td> <td>#</td> <td>•</td> </tr> </tbody> </table> <p>N/A Not available # To order only</p>		Track Depth X mm						Centres	51	64	75	92	100	150	300	N/A	#	#	#	#	#	400	N/A	#	#	#	#	#	450	N/A	#	#	#	#	#	600	N/A	•	#	•	#	•
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600	N/A	•	#	•	#	•																																						
Features	<p>Six standard depths to cater for the majority of applications</p> <p>Knurled stud faces assist screw fixing by stopping slipping and damage to board. Knurling also gives a better bond when adhesive is used with screw fixing.</p> <p>Ø25mm coined service holes</p> <p>The USG branding ensures easy identification of genuine components for compliance</p> 																																											

The following information is taken from the AS/NZS 1170, as a quick reference guideline to assist with the selection of correct tables to determine the most appropriate stud and track combination to comply with the requirements of AS/NZS 1170.

<p>Terrain Category AS/NZS 1170.2, 4.2.1</p>	<p>Category 3 – Terrain with numerous closely spaced obstructions 3m to 5m high such as areas of suburban housing</p> <p>Category 4 – Terrain with numerous large, high (10m to 30m high) and closely spaced obstructions such as large city centres and well-developed industrial complexes</p>
<p>Building Importance Level AS/NZS 1170.0, Table 3.2</p>	<p>Type 2: Normal structures not covered by Types 3 and 4; eg: single family dwellings, car parking buildings</p> <p>Type 3: Structures that may contain people in crowds, or contents of high value to the community or pose risks to people in crowds. eg:</p> <ul style="list-style-type: none"> • Where more than 300 people can congregate in one area • Day care facilities with a capacity greater than 150 • Primary or secondary school facilities with a capacity greater than 250 • Colleges or adult education facilities with a capacity greater than 500 • Healthcare facilities with a capacity of 50 or more resident patients but not having surgery or emergency treatment facilities • Airport terminals, principal railway stations with a capacity greater than 250 • Correctional institutions • Multi-occupancy residential, commercial (including shops), industrial, office and retail buildings designed to accommodate more than 5000 people and with a gross area greater than 10,000 m² • Public assembly buildings, theatres and cinemas of greater than 1000 m² • Emergency medical and other emergency facilities not designated as post-disaster • Power generating facilities, water treatment and waste water treatment facilities and other public utilities not designated as post disaster • Buildings and facilities not designated as post disaster containing hazardous materials capable of causing hazardous conditions that do not extend beyond the property boundaries <p>Type 4: Structures with special post-disaster functions eg:</p> <ul style="list-style-type: none"> • Buildings and facilities designated as essential facilities • Buildings and facilities with special post-disaster function • Medical emergency or surgical facilities • Emergency service facilities such as fire, police stations and emergency vehicle garages • Utilities or emergency supplies or installations required as backup for buildings and facilities of Importance Level 4 • Designated emergency shelters, designated emergency centres and ancillary facilities • Buildings and facilities containing hazardous materials capable of causing hazardous conditions that extend beyond the property boundaries

The following steps will guide you through to the correct height tables and provide a project summary.

Step 1 Terrain Category	Select the Terrain Category from descriptions on page 5, or from architectural specification. <input type="checkbox"/> Terrain Category 3 <input type="checkbox"/> Terrain Category 4
Step 2 Building Importance Level	Select the Building Importance Level from descriptions on page 5, or from architectural specification. <input type="checkbox"/> Type 2 <input type="checkbox"/> Type 3 <input type="checkbox"/> Type 4
Step 3 Wind Region	Select the Wind Region from the map <input type="checkbox"/> A6 <input type="checkbox"/> A7 <input type="checkbox"/> W <div style="border: 1px solid black; padding: 5px; width: fit-content;"> KEY TO LOCATIONS 1 - Tauranga 2 - Huntly 3 - Hamilton 4 - Upper Hutt 5 - Blenheim </div>
Step 4 Site Wind Speed	Establish the Site Wind Speed from the local Territorial Authority if not already provided <input type="checkbox"/> Low - 32mps <input type="checkbox"/> Medium - 37mps <input type="checkbox"/> High - 44mps <input type="checkbox"/> Very High - 50mps

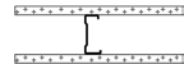


Site Wind Speeds

Steel Partition Systems

Select the project Site Wind Speed Table and from the information on page 6 opposite then go to the appropriate Wall Height page as indicated within the tables.

Low Wind Speed - 32mps Pages 8-9		Terrain Category 3			Terrain Category 4		
		Building Importance Level			Building Importance Level		
		Type 2	Type 3	Type 4	Type 2	Type 3	Type 4
		Wind Region	A6 / A7	✓	✓	✓	✓
	W	N/A	N/A	N/A	✓	✓	N/A
Medium Wind Speed - 37mps Pages 10-11		Terrain Category 3			Terrain Category 4		
		Building Importance Level			Building Importance Level		
		Type 2	Type 3	Type 4	Type 2	Type 3	Type 4
		Wind Region	A6 / A7	✓	✓	✓	✓
	W	N/A	N/A	N/A	✓	✓	N/A
High Wind Speed - 44mps Pages 12-13		Terrain Category 3			Terrain Category 4		
		Building Importance Level			Building Importance Level		
		Type 2	Type 3	Type 4	Type 2	Type 3	Type 4
		Wind Region	A6 / A7	✓	✓	✓	✓
	W	✓	✓	✓	✓	✓	✓
Very High Wind Speed - 50mps Pages 14-15		Terrain Category 3			Terrain Category 4		
		Building Importance Level			Building Importance Level		
		Type 2	Type 3	Type 4	Type 2	Type 3	Type 4
		Wind Region	A6 / A7	✓	✓	✓	N/A
	W	✓	✓	✓	N/A	N/A	N/A



Low Wind Speed design wind pressure - 32mps							
Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0
	10mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 600 ctrs	64 x 0.50 @ 400 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs
	13mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.55 @ 450 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs
	16mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 400 ctrs 64 x 0.55 @ 600 ctrs	64 x 0.50 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.55 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.55 @ 450 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs
	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0
	10mm	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 600 ctrs	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs	92 x 0.75 @ 450 ctrs 100 x 0.55 boxed @ 600 ctrs 150 x 0.75 @ 600 ctrs	92 x 0.75 @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs
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	16mm	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 @ 450 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 600 ctrs	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 150 x 0.75 @ 600 ctrs	92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.75 @ 300 ctrs 150 x 0.75 @ 600 ctrs

NOTES:

- Tables are based on standard plasterboard as a minimum. Specialist function boards (eg. Fire, acoustic etc) may be substituted
- Values are based on the same thickness boards each side. Increased thickness board on just one side or multiple layers may be substituted
- **Stud depths and gauge are minimums.** Deeper stud and/or thicker gauge may be substituted if required for other reasons
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- Other stud sizes and spacing not listed may be suitable – contact USG for advice

LOAD ON TRACK FIXINGS (kN) at 600mm centre fixing maximum												
Stud Height (metres)	≤ 2.4	≤ 2.7	≤ 3.0	≤ 3.3	≤ 3.6	≤ 4.0	≤ 4.5	≤ 5.0	≤ 5.5	≤ 6.0	≤ 6.5	≤ 7.0
kN	0.216	0.243	0.27	0.297	0.324	0.36	0.405	0.45	0.495	0.54	0.585	0.63

FASTENER TYPE AND QUANTITY FOR TRACK FIXINGS at 600mm centre fixing maximum (evenly space multiple fixings)								
Load (kN)		≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0	≤ 1.2	≤ 1.4	≤ 1.6
Concrete Floor	3.8 x 32mm Ramset	2	2	2	2	2	2	2
	M6 Dynabolt	1	1	1	1	1	1	2
	2.5 x 22mm Ramset Pin (gas)	2	2	2	2	2	2	3
Timber Floor or Joist	Type 17 12g x 40mm	1	1	1	1	1	2	2
Steel	10g-16 x 16mm waferhead screw	2	2	2	3	3	3	4
	3.2mm Blind Rivet - Steel	2	2	3	4	4	N/A	N/A
	3.2mm Blind Rivet - Aluminium	2	3	3	4	N/A	N/A	N/A



Low Wind Speed design wind pressure - 32mps							
Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0
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	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0
	10mm	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 92 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 450 ctrs 100 x 0.75 @ 600 ctrs	92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs 150 x 0.75 @ 600 ctrs	92 x 0.75 @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs
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Continuous Nogging Track

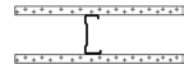
The USG Continuous Nogging Track is designed to be used to give support to and prevent twisting of the steel stud, particularly during installation of the plasterboard linings, single sided linings, and for taller wall heights. It may also be required where lighter weight articles are anticipated to be hung on the wall eg, picture, mirrors etc. It should be noted that if heavy articles are to be hung off the wall, this will require specific engineering design and correct installation prior to lining the wall.

MINIMUM NUMBER OF CONTINUOUS NOGGING TRACKS										
Wall Height (metres)	≤ 3.0	3.3	3.6	4.0	4.5	5.0	5.5	6.0	6.5	7.0-8.0
Plasterboard Both Sides	0	0	0	0	1	1	1	1	1	1
Plasterboard One Side	1	2	2	2	2	2	2	2	3	3

Nogging Track Positioning

Position equally spaced over the height of the wall.

For deflection head track walls unlined or lined one side only, secure an extra nogging track 100mm on centre below the head track



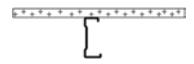
Medium Wind Speed design wind pressure - 37mps							
Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0
	10mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 600 ctrs	64 x 0.50 @ 400 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs
	13mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 64 x 0.75 @ 450 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 64 x 0.75 @ 450 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs
	16mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 400 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs
	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0
	10mm	75 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 450 ctrs 92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 450 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.55 boxed @ 400 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs
	13mm	75 x 0.55 @ 450 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.75 @ 400 ctrs 92 x 0.55 @ 450 ctrs 92 x 0.75 @ 600 ctrs	92 x 0.75 @ 450 ctrs 92 x 0.55 boxed @ 600 ctrs	92 x 0.75 @ 300 ctrs 92 x 0.55 boxed @ 400 ctrs 150 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs
	16mm	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 450 ctrs 92 x 0.55 @ 600 ctrs	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 450 ctrs	92 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 300 ctrs 150 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 300 ctrs 100 x 0.55 boxed @ 400 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs

NOTES:

- Tables are based on standard plasterboard as a minimum. Specialist function boards (eg. Fire, acoustic etc) may be substituted
- Values are based on the same thickness boards each side. Increased thickness board on just one side or multiple layers may be substituted
- **Stud depths and gauge are minimums.** Deeper stud and/or thicker gauge may be substituted if required for other reasons
- **Stud spacing is a maximum.** Closer centres may be used if required for other reasons
- Other stud sizes and spacing not listed may be suitable – contact USG for advice

LOAD ON TRACK FIXINGS (kN) at 600mm centre fixing maximum												
Stud Height (metres)	≤ 2.4	≤ 2.7	≤ 3.0	≤ 3.3	≤ 3.6	≤ 4.0	≤ 4.5	≤ 5.0	≤ 5.5	≤ 6.0	≤ 6.5	≤ 7.0
kN	0.288	0.324	0.36	0.396	0.432	0.48	0.54	0.60	0.66	0.72	0.78	0.84

FASTENER TYPE AND QUANTITY FOR TRACK FIXINGS at 600mm centre fixing maximum (evenly space multiple fixings)								
Load (kN)		≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0	≤ 1.2	≤ 1.4	≤ 1.6
Concrete Floor	3.8 x 32mm Ramset	2	2	2	2	2	2	2
	M6 Dynabolt	1	1	1	1	1	1	2
	2.5 x 22mm Ramset Pin (gas)	2	2	2	2	2	2	3
Timber Floor or Joist	Type 17 12g x 40mm	1	1	1	1	1	2	2
Steel	10g-16 x 16mm waferhead screw	2	2	2	3	3	3	4
	3.2mm Blind Rivet - Steel	2	2	3	4	4	N/A	N/A
	3.2mm Blind Rivet - Aluminium	2	3	3	4	N/A	N/A	N/A



Medium Wind Speed design wind pressure - 37mps							
Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0
	10mm	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 100 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs
	13mm	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs
	16mm	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.55 @ 450 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 450 ctrs 92 x 0.75 @ 600 ctrs
	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0
	10mm	75 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 450 ctrs 100 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 450 ctrs 100 x 0.75 @ 450 ctrs 100 x 0.55 boxed @ 600 ctrs	100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs
	13mm	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 450 ctrs 92 x 0.55 boxed @ 600 ctrs 100 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs	100 x 0.75 @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs
	16mm	75 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 450 ctrs 92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 450 ctrs	92 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.55 boxed @ 400 ctrs 100 x 0.75 @ 300 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs

NOTES:

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Continuous Nogging Track

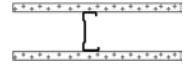
The USG Continuous Nogging Track is designed to be used to give support to and prevent twisting of the steel stud, particularly during installation of the plasterboard linings, single sided linings, and for taller wall heights. It may also be required where lighter weight articles are anticipated to be hung on the wall eg. picture, mirrors etc. It should be noted that if heavy articles are to be hung off the wall, this will require specific engineering design and correct installation prior to lining the wall.

MINIMUM NUMBER OF CONTINUOUS NOGGING TRACKS										
Wall Height (metres)	≤ 3.0	3.3	3.6	4.0	4.5	5.0	5.5	6.0	6.5	7.0-8.0
Plasterboard Both Sides	0	0	0	0	1	1	1	1	1	1
Plasterboard One Side	1	2	2	2	2	2	2	2	3	3

Nogging Track Positioning

Position equally spaced over the height of the wall.

For deflection head track walls unlined or lined one side only, secure an extra nogging track 100mm on centre below the head track



High Wind Speed design wind pressure - 44mps							
Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0
	10mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 600 ctrs	64 x 0.50 @ 400 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.55 @ 450 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 92 x 0.75 @ 600 ctrs
	13mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 600 ctrs
	16mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 400 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 @ 400 ctrs 92 x 0.55 @ 600 ctrs
	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0
	10mm	92 x 0.75 @ 450 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.75 @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs	150 x 0.75 @ 300 ctrs	150 x 0.75 @ 300 ctrs
	13mm	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 400 ctrs	92 x 0.55 boxed @ 400 ctrs 92 x 0.75 @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs	150 x 0.75 @ 300 ctrs	150 x 0.75 @ 300 ctrs
	16mm	75 x 0.75 @ 300 ctrs 92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 400 ctrs 100 x 0.75 @ 400 ctrs 150 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs	150 x 0.75 @ 300 ctrs

NOTES:

- Tables are based on standard plasterboard as a minimum. Specialist function boards (eg. Fire, acoustic etc) may be substituted
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LOAD ON TRACK FIXINGS (kN) at 600mm centre fixing maximum												
Stud Height (metres)	≤ 2.4	≤ 2.7	≤ 3.0	≤ 3.3	≤ 3.6	≤ 4.0	≤ 4.5	≤ 5.0	≤ 5.5	≤ 6.0	≤ 6.5	≤ 7.0
kN	0.432	0.486	0.54	0.594	0.648	0.72	0.81	0.90	0.99	1.08	1.17	1.26

FASTENER TYPE AND QUANTITY FOR TRACK FIXINGS at 600mm centre fixing maximum (evenly space multiple fixings)								
Load (kN)		≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0	≤ 1.2	≤ 1.4	≤ 1.6
Concrete Floor	3.8 x 32mm Ramset	2	2	2	2	2	2	2
	M6 Dynabolt	1	1	1	1	1	1	2
	2.5 x 22mm Ramset Pin (gas)	2	2	2	2	2	2	3
Timber Floor or Joist	Type 17 12g x 40mm	1	1	1	1	1	2	2
Steel	10g-16 x 16mm waferhead screw	2	2	2	3	3	3	4
	3.2mm Blind Rivet - Steel	2	2	3	4	4	N/A	N/A
	3.2mm Blind Rivet - Aluminium	2	3	3	4	N/A	N/A	N/A



High Wind Speed design wind pressure - 44mps								
Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0	
	10mm	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 100 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 450 ctrs 92 x 0.55 @ 400 ctrs 92 x 0.75 @ 600 ctrs	
	13mm	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 92 x 0.75 @ 600 ctrs	75 x 0.55 boxed @ 450 ctrs 92 x 0.55 @ 400 ctrs 92 x 0.75 @ 600 ctrs	
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	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0	
	10mm	92 x 0.55 boxed @ 400 ctrs 92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.55 boxed @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 400 ctrs	150 x 0.75 @ 300 ctrs		
	13mm	92 x 0.55 boxed @ 400 ctrs 92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.55 boxed @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 400 ctrs	150 x 0.75 @ 300 ctrs		
	16mm	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 400 ctrs	92 x 0.55 boxed @ 400 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 400 ctrs	150 x 0.75 @ 300 ctrs		

NOTES:

- Tables are based on standard plasterboard as a minimum. Specialist function boards (eg. Fire, acoustic etc) may be substituted
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Continuous Nogging Track

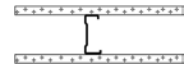
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MINIMUM NUMBER OF CONTINUOUS NOGGING TRACKS										
Wall Height (metres)	≤ 3.0	3.3	3.6	4.0	4.5	5.0	5.5	6.0	6.5	7.0-8.0
Plasterboard Both Sides	0	0	0	0	1	1	1	1	1	1
Plasterboard One Side	2	2	2	2	3	3	3	4	4	N/A

Nogging Track Positioning

Position equally spaced over the height of the wall.

For deflection head track walls unlined or lined one side only, secure an extra nogging track 100mm on centre below the head track



Very High Wind Speed design wind pressure - 50mps

Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0
	10mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 600 ctrs	64 x 0.50 @ 400 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 92 x 0.75 @ 600 ctrs
13mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 450 ctrs 64 x 0.55 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs	
16mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 @ 400 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 600 ctrs	
Plasterboard Thickness	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0
	10mm	92 x 0.75 @ 450 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.75 @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs	150 x 0.75 @ 300 ctrs	150 x 0.75 @ 300 ctrs
13mm	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 450 ctrs	92 x 0.55 boxed @ 400 ctrs 92 x 0.75 @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs	150 x 0.75 @ 300 ctrs	150 x 0.75 @ 300 ctrs	
16mm	75 x 0.75 @ 300 ctrs 92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs	92 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 300 ctrs 100 x 0.75 @ 400 ctrs	92 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs	150 x 0.75 @ 300 ctrs	

NOTES:

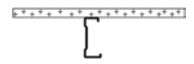
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- Other stud sizes and spacing not listed may be suitable – contact USG for advice

LOAD ON TRACK FIXINGS (kN) at 600mm centre fixing maximum

Stud Height (metres)	≤ 2.4	≤ 2.7	≤ 3.0	≤ 3.3	≤ 3.6	≤ 4.0	≤ 4.5	≤ 5.0	≤ 5.5	≤ 6.0	≤ 6.5	≤ 7.0
kN	0.504	0.567	0.63	0.693	0.756	0.84	0.945	1.05	1.155	1.26	1.365	1.47

FASTENER TYPE AND QUANTITY FOR TRACK FIXINGS at 600mm centre fixing maximum (evenly space multiple fixings)

Load (kN)		≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0	≤ 1.2	≤ 1.4	≤ 1.6
Concrete Floor	3.8 x 32mm Ramset	2	2	2	2	2	2	2
	M6 Dynabolt	1	1	1	1	1	1	2
	2.5 x 22mm Ramset Pin (gas)	2	2	2	2	2	2	3
Timber Floor or Joist	Type 17 12g x 40mm	1	1	1	1	1	2	2
Steel	10g-16 x 16mm waferhead screw	2	2	2	3	3	3	4
	3.2mm Blind Rivet - Steel	2	2	3	4	4	N/A	N/A
	3.2mm Blind Rivet - Aluminium	2	3	3	4	N/A	N/A	N/A



Very High Wind Speed design wind pressure - 50mps							
Plasterboard Thickness	Maximum Wall Height (metres)	2.4	2.7	3.0	3.3	3.6	4.0
	10mm	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 100 x 0.55 @ 600 ctrs	92 x 0.55 @ 400 ctrs 92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs
	13mm	51 x 0.50 @ 450 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.75 @ 600 ctrs 92 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 450 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 600 ctrs	75 x 0.55 boxed @ 450 ctrs 92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs
	16mm	51 x 0.50 @ 600 ctrs 64 x 0.50 @ 600 ctrs	51 x 0.50 boxed @ 600 ctrs 64 x 0.50 @ 600 ctrs	64 x 0.50 @ 450 ctrs 64 x 0.75 @ 600 ctrs 75 x 0.55 @ 600 ctrs	64 x 0.50 boxed @ 600 ctrs 75 x 0.55 @ 450 ctrs 92 x 0.55 @ 600 ctrs	64 x 0.55 boxed @ 450 ctrs 75 x 0.55 boxed @ 600 ctrs 92 x 0.55 @ 600 ctrs	92 x 0.55 @ 400 ctrs 92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 600 ctrs 100 x 0.55 @ 450 ctrs
	Maximum Wall Height (metres)	4.5	5.0	5.5	6.0	6.5	7.0
	10mm	92 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.55 boxed @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 400 ctrs	150 x 0.75 @ 300 ctrs	
	13mm	92 x 0.55 boxed @ 450 ctrs 92 x 0.75 @ 400 ctrs 100 x 0.55 boxed @ 600 ctrs	92 x 0.55 boxed @ 300 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 400 ctrs	150 x 0.75 @ 300 ctrs	
	16mm	92 x 0.55 boxed @ 600 ctrs 92 x 0.75 @ 400 ctrs	92 x 0.55 boxed @ 400 ctrs 100 x 0.55 boxed @ 450 ctrs 150 x 0.75 @ 600 ctrs	100 x 0.55 boxed @ 300 ctrs 150 x 0.75 @ 600 ctrs	150 x 0.75 @ 450 ctrs	150 x 0.75 @ 300 ctrs	

NOTES:

- Tables are based on standard plasterboard as a minimum. Specialist function boards (eg. Fire, acoustic etc) may be substituted
- Values are based on the same thickness boards each side. Increased thickness board on just one side or multiple layers may be substituted
- **Stud depths and gauge are minimums.** Deeper stud and/or thicker gauge may be substituted if required for other reasons
- **Stud spacing is a maximum.** Closer centres may be used if required for other reasons
- Other stud sizes and spacing not listed may be suitable – contact USG for advice

Continuous Nogging Track

The USG Continuous Nogging Track is designed to be used to give support to and prevent twisting of the steel stud, particularly during installation of the plasterboard linings, single sided linings, and for taller wall heights. It may also be required where lighter weight articles are anticipated to be hung on the wall eg, picture, mirrors etc. It should be noted that if heavy articles are to be hung off the wall, this will require specific engineering design and correct installation prior to lining the wall.

MINIMUM NUMBER OF CONTINUOUS NOGGING TRACKS										
Wall Height (metres)	≤ 3.0	3.3	3.6	4.0	4.5	5.0	5.5	6.0	6.5	7.0-8.0
Plasterboard Both Sides	0	0	0	0	1	1	1	1	1	1
Plasterboard One Side	2	2	2	3	3	3	4	4	5	N/A

Nogging Track Positioning

Position equally spaced over the height of the wall.

For deflection head track walls unlined or lined one side only, secure an extra nogging track 100mm on centre below the head track



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