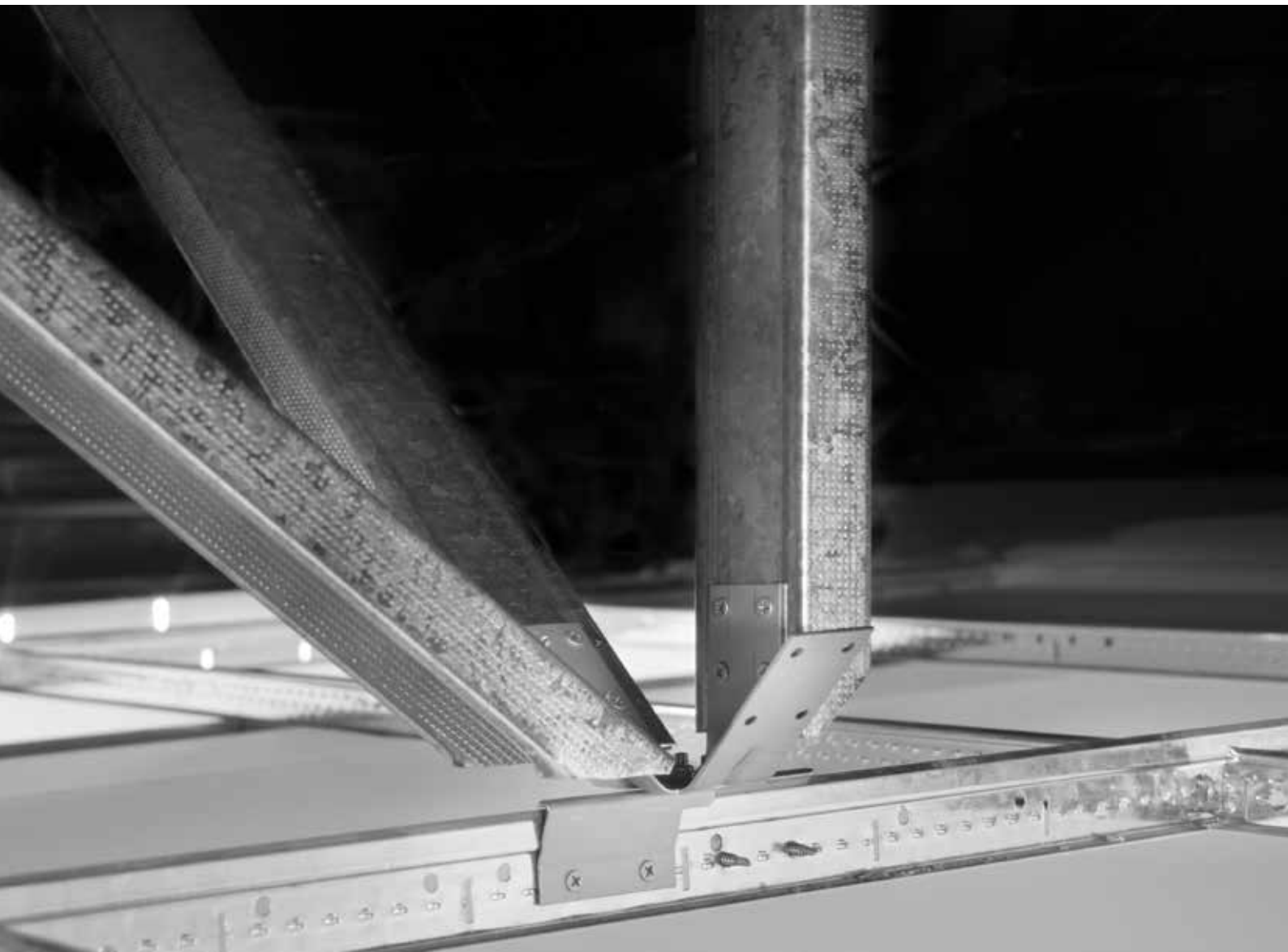




GRIDLOK®

SPECIFICATION SHEET
& INSTALLATION GUIDE/
GRIDLOK®





OBJECTIVES/

- Provide consistency of bracing for grid ceilings.
- Create efficiencies in the construction of grid ceiling systems.
- Provide a systematic and quantifiable approach to grid ceiling bracing.
- Prevent injury caused by failure of grid ceiling systems during seismic activity.
- Prevent loss of amenity caused by behavior of grid ceiling systems during seismic activity.
- Protect property and structures from physical damage caused by failure of grid ceiling systems during seismic activity.
- Prevent business interruption caused by the failure of ceiling systems due to seismic activity.

FEATURES AND BENEFITS/

- Provides defined capacity for every brace.
- Provides consistency of installation.
- Ensures validity of ceiling installers PS3.
- Tested under ULS and SLS loads to ensure longevity of performance.
- Patented connection saddle applicable to all ceiling main runners.
- Allows for 64mm and 92mm steel stud to be used as bracing.
- Minimizes plenum footprint to reduce service clashes.
- Allows rotation of bracing footprint to minimize service clashes.
- Employs .64 BMT, .75 BMT or 1.15 BMT steel stud to minimize waste on site.

COMPLIANCE/

- Complies with AS/NZS 2785.
- Complies with AS/NZS 1170.5.
- Complies with AS/NZS 4219.
- Complies with AS/NZS 4600.
- Complies with NZ Building Code Clause B1 – Structure.
- Contributes to compliance with NZ Building Code Clause F6 – Visibility in Escape Routes, Clause D1 – Access Routes.

APPLICATIONS/

- Importance Level 2, 3 and 4 Buildings
- Hospitals
- Commercial Interiors
- Schools

INSTALLATION/

Must be installed in accordance with manufacturers specification and within the parameters of AS/NZS1170.5 AS/NZS4219 AS/NZS2785. Install sheets are available online and in every box of GRIDLOK®. Ceilings must be installed as per manufacturers recommendation. Installation at centres and configurations as referenced by ceiling manufacturers recommendations given GRIDLOK® capacity. Construction outside of available information will require consultation and approval. Approved seismic fixings to be used for attachment to structure over Architect and / or Structural engineer plus relevant regulatory bodies must approve variations of installation. Bracing material must be fixed with 10-gauge drill point wafer head tech screws. Steel bracing material must be 64mm .55 BMT, .75 BMT or 1.15 BMT or 92mm .55 BMT, .75 BMT or 1.15 BMT. All GRIDLOK®

units and bracing must be checked after seismic event for signs of wear. GRIDLOK® is not intended to replace ceiling suspension wires, which must be installed as per manufacturers specification. Although all ceiling grid is acceptable for use we do not take responsibility or liability for performance of, or installation of ceiling grid. The unit must not be deformed or altered in any way. Tenancy changes requiring new ceiling installation requires new GRIDLOK® units to be installed.

LIMITATIONS/

For interior application only. Structural engineer and regulatory body must seismically approve configurations outside of specifications. The unit and / or bracing material must not be used as an anchor point or fixing point by associated trades.

NOTICE/

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from the date it was or reasonably should have been discovered.

The information presented is correct to the best of our knowledge at the date of issuance. Because codes continue to evolve, check with a local official prior to designing and installing. Other restrictions and exemptions may apply.

PLENUM HEIGHT CHART/

PLENUM HEIGHT/	45° STUD LENGTH/	BRACING REQUIREMENT/
200mm	233mm	64mm .50 BMT or 92mm .55 BMT
400mm	516mm	64mm .50 BMT or 92mm .55 BMT
600mm	799mm	64mm .50 BMT or 92mm .55 BMT
800mm	1081mm	64mm .75 BMT or 92mm .55 BMT
1000mm	1361mm	64mm .75 BMT or 92mm .75 BMT
1200mm	1647mm	Boxed 64mm .75 BMT or 92mm .55 BMT
1400mm	1930mm	Boxed 64mm .75 BMT or 92mm .55 BMT
1600mm	2213mm	Boxed 64mm .75 BMT or 92mm .75 BMT
1800mm	2496mm	Boxed 64mm .75 BMT or 92mm .75 BMT
2000mm	2778mm	Boxed 64mm 1.15 BMT or 92mm 1.15 BMT
2200mm	3061mm	Boxed 64mm 1.15 BMT or 92mm 1.15 BMT
2400mm	3344mm	Boxed 64mm 1.15 BMT or 92mm 1.15 BMT
2600mm	3627mm	Boxed 92mm 1.15 BMT
2800mm	3910mm	Boxed 92mm 1.15 BMT

Notes:

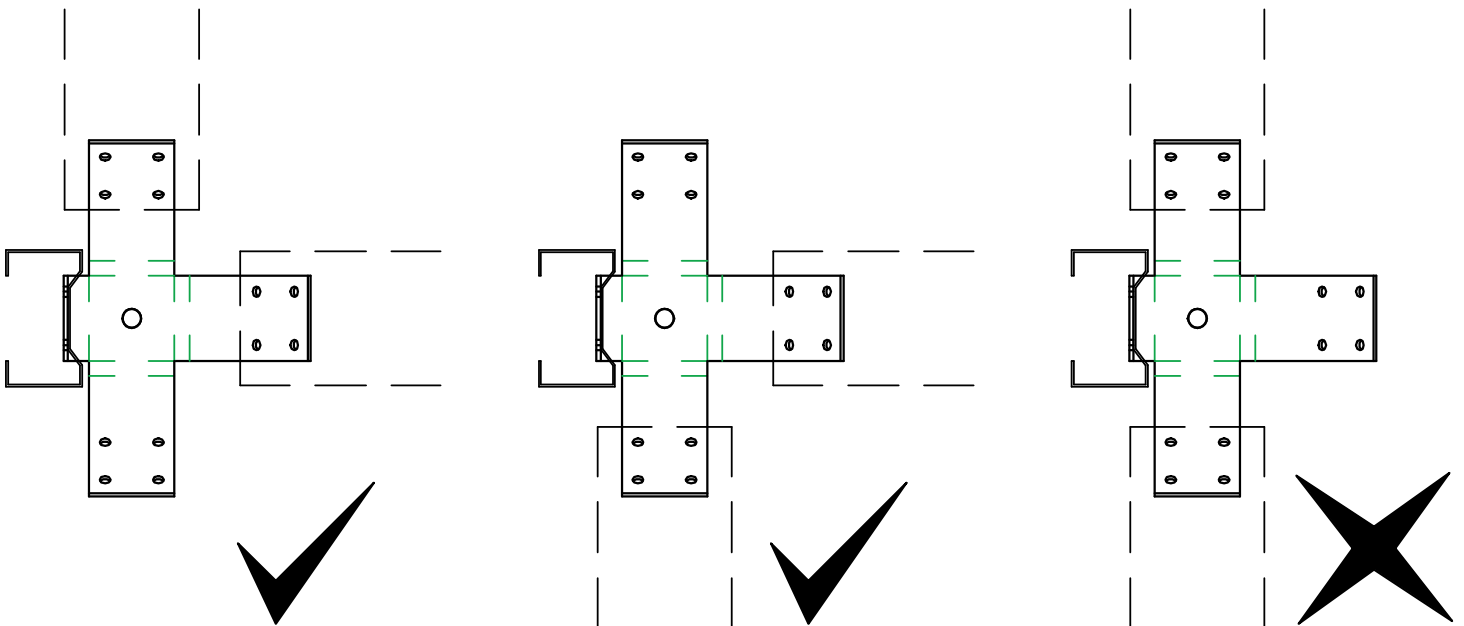
Plenum height equals top of grid to soffit.

Provides for horizontal bracing load of 210kg per GRIDLOK® bracket.

Larger bracing loads require a specific design by an engineer.

Boxed studs to be screwed off both sides at 1.0m centres.

ASSEMBLY DETAIL/





Every box of 10 GRIDLOK® or GRIDLOK® Peakform contains:

INSTALL INSTRUCTIONS/

- 1/ Place GRIDLOK® on main runner in position specified by engineer or grid manufacturer.
- 2/ Connect GRIDLOK® to ceiling grid main runner, using 10 gauge wafer tech screws.
- 3/ Rotate fly plate to obtain optimum bracing placement on structure over.
- 4/ Ensure ceiling grid is at correct height, measure and cut steel stud, as per chart provided and connect to vertical arm.
- 5/ Attach vertical top connector to structure over.
- 6/ Cut two 45° steel studs as per plenum chart provided, attach to 45° top connectors and 45° GRIDLOK® arms – refer to drawing below for correct configuration.
- 7/ Attach the 45° top connector to the structure over using approved anchor.
- 8/ Ensure all screw holes are filled with screws provided.

For further installation and limitation information please refer to GRIDLOK® specification sheet available at www.tracklok.co.nz.

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