BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S001

REV. B

SCALE 250 200 150 100 50

TABLE OF CONTENTS

S001. Cover Page
S002. Table of Contents
S003 - S005 Bryko General Notes & Structural Specification

S100. Wall Products & Structural Properties
S101. Wall Framing Studs
S102. Wall Framing Products
S103. Structural Properties of Partition Studs

S200. Non-Load Bearing Partition Details, Fixings & Tables (Non-Seismic)
S201. Internal Partition Wall & Noggings (Non-seismic) - Type 1; floor to soffit
S202 - S203 Internal Partition Wall Maximum Heights Tables (Non-seismic)
S204 Internal Partition Wall (Non-seismic) - Type 2; floor to underside of purlins
S205. Internal Partition Wall (Non-seismic) - Type 3; wall plenum
S206. Internal Partition Wall Diagonal Restraint (Non-seismic)
S207 - S208 External Wall Stud Tables (Non-seismic, Non-load bearing. Lateral wind only).

S300. Non-Load Bearing Partition Details, Fixing & Tables (Seismic Design)
S301. Internal Partition Wall (Seismic design) - Type 1; floor to soffit
S302. Head Track Fixing (Seismic design) - Direct fix to soffit
S303. Internal Partition Wall (Seismic design) - Type 2; floor to underside of purlins
S304. Internal Partition Wall (Seismic design) - Type 3; wall plenum
S305. Head Track Fixing (Seismic design) - Wall plenum bracing
S306 - S307 Deflection Head Track Details
S308 Wall Bracing Tables (64mm Studs)
S309 Wall Bracing Tables (76mm Studs)
S310 Wall Bracing Tables (92mm Studs)
S311 Wall Bracing Tables (150mm Studs)
S312 Example Computations for Earthquake Acceleration for Partition Walls

S400. Ceiling System Products & Structural Properties
S401. Ceiling System Products
S402. Miscellaneous Accessories
S403. Top Cross Rail Structural Properties
S404. Furring Channel Structural Properties; Furring Channel Track
S405. Direct Fix Ceiling Properties (Domestic application)

S500. Ceiling System Details & Tables (Non-Seismic)
S501. Ceiling System (Non-seismic) - Type 1; Concrete soffit
S502. Ceiling System (Non-seismic) - Type 2; Steel structure
S503. Ceiling Supporting Rod Spacing Tables

S600. Ceiling System Details & Tables (Seismic Design)
S601 - S602 Ceiling Schedule & Ceiling Bracing Layouts (Seismic design)
S603. Ceiling to Wall Details (Seismic design)
S604. Dropper Stud & Bracing - Both Directions (Seismic design)

S700. Direct Fix Top Hat Wall Batten Details & Table
S701 Direct Fix Top Hat Wall Batten Details & Table

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S002

REV. B

SCALE 250 200 150 100 50

TECHNICAL STANDARDS

Bryko Pty Ltd has substantial experience in the design and operation of Q.A./Q.C. Procedures. Most clients have a requirement for quality management and we have the in-house resources to meet this need.

Our Quality Procedures manual sets out in the form of a handbook, general and specific parameters for quality assurance in relation to ISO 9002.
It covers the procedures for the manufacturing of partitioning systems as required for the building construction industry.
This manual was compiled to provide the basic document for training towards quality control and is our manual for execution of the quality programme, as part of the total quality commitment of this company.

The Quality Manual features such matters as:
1. Policy Statement
2. Company History.
3. Introduction.
4. Organizational Chart.
5. Managerial Procedures.
6. Production Procedures.
7. Quality Control Procedures.
8. Health & Safety Practices.
9. Employee Training, Manual

MANAGEMENT / MANPOWER RESOURCES

The evolvement of Bryko Pty Ltd has been matched by development of the appropriate management and manpower resources. Bryko Pty Ltd has a primary staff of five (5) employees, together with professionally qualified management personnel and has access to other industry related personnel should the need arise.

Bryko Pty Ltd have staff resources to ensure rapid backup should any key employee be unable to continue their work activities should the need arise. We also recognise the necessity of maintaining a high standard of industrial relation and safety management within our manufacturing plant, our planning and company objectives take these areas of our management function seriously.

EXPERIENCE AS A MAJOR SUPPLIER

Bryko Pty Ltd was established in June 1989 and has since developed into one of Victoria's best known manufacturers of partitioning systems.
Manufacturing for the building, construction industry is particularly demanding, we see the terms of reference for this industry as requiring:

- A high standard of manufacturing workmanship, supported by technical competence.
- Quality control and quality assurance.
- Carefully planned methodology.
- Safe working practices.
- Major resources of plant.
- Financial strength.
- Strong well equipped management team.

Bryko Pty Ltd has the resources, skills and experience to successfully undertake manufacturing of this nature, we consider ourselves strong in aspects of manufacturing and technical competence.

PRODUCT RANGE

INTRODUCTION

Bryko Pty Ltd manufactures and markets a range of roll formed galvanised steel products for use in the building and construction industries including non-cyclonic wall and partition framing and internal lining support sections.
The components are made from light weight & high strength material and are designed to satisfy the industries need for cost effective and efficient construction.
The components are ideally suited to prefabricated framing, thus minimizing onsite construction time

ADVANTAGES

Some of the advantages of this product over conventional materials include:

1. No wastage of materials - all components can be cut to exact specified lengths minimizing on site cutting;
2. All products are manufactured by precision machines producing a profile which is strait, true & consistent enabling a high degree of accuracy in construction;
3. There is no long term movement from shrinkage or twisting from natural causes;
4. Steel framework is compatible with the full range of claddings and lining materials;
5. All studs, noggins & plates in both the conventional frame and light weight partition framing can be pre-punched with flared service holes for installation of electrical, telephone & plumbing wires & pipes.

MATERIALS

All sections are rolled from zinc coated steel to AS 1397. The thickness & grade are as specified below:

Wall framing studs, noggings & plates
0.6mm / 0.8mm / 1.2mm thickness - G300
Deflection tracks
0.6mm / 0.8mm thickness - G300
Top hats
1.2mm thickness - G300
Nail up Batten
0.5mm thickness - G350 & G300
Top Cross Rail
0.75mm thickness - G300
Furring channel
0.55mm thickness - G300

ACOUSTIC FIRE RATING

Fire rating of walls and ceilings can be achieved by covering with suitable types & thicknesses of fire rated materials such as Plaster & Brick.
For detailed specifications of these materials and thicknesses refer to plater manufacturer's handbooks and/or the "Building Code of Australia".

STORAGE AND HANDLING

Galvanised steel framing components must be stored clear of the ground and covered to prevent moisture being trapped between adjacent surfaces.
All materials are where sections permit rested & strapped for protection and care of handling. The strapping should be retained until the bundle is required.

DESIGN

The wall framing components are all suitable for use in standard framing construction in non-cyclonic wind zones.
Partition framing can be selected using the load capacity charts attached by assessment of the lateral and vertical loads likely to be imposed on the completed partition wall.
For special applications Bryko Pty Ltd can provide expert technical back up for any of their products.
Designs are generic and not Project specific.
For Project specific design and certification contact Bryko Pty Ltd.

CUT TO SIZE

Where appropriate materials can be ordered and will be delivered cut to size.

BRYKO Partitioning Systems
BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S003 REV. B

SCALE 250 200 150 100 50

STRUCTURAL SPECIFICATION

A) GENERAL

1) These drawings are issued subject to the approval of the relevant Building Surveyor.
This specification shall be read in conjunction with all architectural and other engineering drawings and with other written instructions which may be issued during the course of the contract.
All discrepancies shall be referred to the Structural Engineer for decision before proceeding with the work.
All dimensions shall be verified by the Contractor before commencing construction or fabrication. Engineering drawings shall be verified with all Architectural and Services drawings.
2) Tables are to be referenced by the Registered Project Engineer and checked for compliance. This document is of a general nature and is not Project specific.
3) Engineering drawings shall not be scaled.
During construction, the Contractor shall ensure that all parts of the structure are maintained in a stable condition and that no part of the structure is over stressed as a result of the construction procedure.
The structural drawings do not necessarily show all steelwork, fixtures, inserts, cleats, sleeves, openings, etc. which may be required by the various trades and/or architectural drawings and specifications.
4) If any element or member requires FRL (Fire Resistance Level) the specification for fire rating of such element or member shall be nominated on the Architectural Specification. If not nominated on the Architectural Specification then the method of appropriate treatment and protection shall be submitted to the Building Surveyor for approval.
5) The allowance for structural movement is to be confirmed by the Project Engineer prior to commencement of work on site.
6) Substitution with alternative components is not permitted without Bryko's written consent.
7) The details contained in this document assume an inter-storey serviceability drift of H/500.
The Contractor shall be responsible for checking this prior to commencement of works of site.

B) WALL FRAMING METAL STUDS

1) The Contractor shall engage a Registered Building Practitioner Category/Class Civil Engineer ("the Metal Frame Design Engineer") to provide a certification Reg 126, Certificate of Compliance_Documents in accordance with Section 238 of the Building Act 1993 and Regulation 15.7 (2) Building Regulations 1994.
The Metal Frame Design Engineer shall carry out the design of all metal stud framing, including lintels, window and door headers, sill members, proposed intermediate wall ties and mullions, connections and fixings, which are deemed to be required for the satisfactory performance of the stud framing, and submit the design and relevant details to the Project Engineer for review.
2) The Contractor shall engage the Registered Building Practitioner Category/Class Civil Engineer ("the Metal Frame Design Engineer") who carried out the design of the metal studs, to provide a certification Reg 126, Certificate of Compliance-Inspection in accordance with Building Regulations 1994 1994. Where it is not possible for the designer to carry out the inspection, the inspection may be carried out by another person with similar qualifications and who has suitable experience in this field, and who has been given written approval to carry out the inspection by the Project Engineer.
3) Loads on members shall be in accordance with AS 1170.1 and AS 1170.2.
The design shall comply the wind forces stated in "General" section, but shall not be less than 0.25 kPa working load, and shall be in structurally compatible with the structural members shown in the contract documents.
The lateral deflection of internal and external studs shall be limited to Height/240, or 12.5 mm, whichever is less.
Wall frames shall be a proprietary stud wall framing system complying with AS 3623 _ Domestic metal framing.
All framing sections shall be manufactured from continuously galvanised steel conforming to AS 1397 with a minimum average coating mass of 200 gram per square metre.
4) Cold-formed steel sections shall comply with AS 1538.
5) Screws shall comply with AS 3566, corrosion resistance Class 3 or 4.
Screw coating shall be minimum Class 3 or zinc plated for interiors, and minimum Class 4 for external wall cavities and exterior protected environments.
Minimum edge distance to be '2 x fastener diameter', and not less than 10mm unless noted otherwise.
6) Members shall be accurately cut to length so that they fit firmly against abutting members. Holes shall be formed by drilling or punching.
7) Frames which are prefabricated shall be adequately protected from damage or distortion during storage, transport and erection.
8) Permanently earth the frame, and provide temporary earthing during erection until permanent earthing is achieved.
9) Provide studs in single lengths without splices.
10) Where openings are not trimmed with structural members, two studs which are boxed and connected together to form a rectangular section shall be provided.
11) All walls shall be braced to prevent racking.
12) The top and bottom plates shall be spliced at ends to maintain continuity and alignment.
13) Provide additional support in the form of noggings, trimmers and studs for fixing lining, cladding, hardware, accessories, fixtures and fittings as required.
14) Holes for plumbing or electrical services shall be either plain holes of not more than 25 mm diameter or flanged holes not more than 33 mm diameter with flanges 5 mm minimum length, and shall be placed only in approved locations. For electrical services plain holes shall be provided with bushes or grommets.
Provide lagging where necessary to separate non-ferrous service pipes and accessories from the metal framing.
15) Wall linings to be referenced from architectural drawings.
16) All stud wall are Non-Load bearing.
17) Where walls are only partially lined, noggings to be provided, within the unlined wall section, at 1200mm max. centres unless noted otherwise.
18) Standard friction fit Deflection Head Tracks shall be used to minimise racking loads under building movement. The Contractor shall verify the adequacy of structural movement allowances prior to commencement of works on site.

C) FIXING TO STRUCTURE

1) Minimum Concrete characteristic strength (f'c) to be not less than 32 MPa.
2) Steel to be minimum 3.0mm thick Grade C350 hollow sections, or minimum 2.5mm thick Grade C250 hot rolled sections.

D) PROTECTIVE COATING

1) Any members specified have a coating designation of Z275 (zinc coating of mass 275g/m^2) in accordance with AS1397, unless noted otherwise.
2) Product's application is where the framing is installed within the building envelope and is protected by a waterproof facade, as specified by the architect.
3) External applications are not permitted.

E) CEILINGS

1) Ceilings in this document are designed for internal application only.
2) All ceilings are non-trafficable, unless noted otherwise and specifically approved by the Project Engineer.
3) Clear distances between the ceiling grid, it's suspension components and any services within the building must be in accordance with AS2785.

SCALE 50 100 150 200 250

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S004 REV. B

F) GENERAL CONSTRUCTION NOTES

HEALTH & SAFETY

1. The contractor shall develop, implement and administer a workplace health and safety program that will ensure that all construction activities are performed to the relevant work place health and safety requirements and any other relevant statuary requirement.
2. The work health safety program must be co-ordinated with adjoining property owners and all relevant parties as necessary to ensure a safe building environment at all times.

NUISANCE

1. The contractor shall develop, implement and administer a plan that will ensure the management of noise and vibration resulting from construction works. Refer to specifications for required limits, otherwise, contact engineer for guidance.
2. The contractor will need to ensure all adjoining property requirements relating to noise vibration are met.
3. If it is established that there are no site specific requirements, then contractor shall refer to minimum requirements for abatement of noise and vibration nominated by relevant statutory requirement.
4. The contractor will need to prepare and advise on monitoring and management of noise vibration based on professional advice from suitably qualified person or persons.

TEMPORARY WORKS

1. The contractor shall allow for in his price all cost associated with the design, supply, installation and removal of all temporary back propping, safety screens, scaffolding and other requirements of the construction process. The contractor shall engage a suitably qualified engineer, referred to as 'contractor engineer' to design and inspect and certify all temporary works, and demolition works.
2. The contractor is to provide all temporary works, contractor engineering drawings to structural engineer for information.
3. It is the contractor's responsibility to ensure the overall stability of the structure whilst under construction. The contractor shall obtain advice from the contractor engineer.
4. The contractor is to have construction methodology statements prepared and submitted for general review to ensure it is in accordance with the design intent.
5. All vertical displacement and movement are to be limited to ensure the structure is not subjected to loads or movements causing structural distress to any elements while the structure is being temporarily supported.
6. Depending on the contractors preferred construction sequence, pre-loading of structural elements may be required to limit total vertical displacement.
7. Structure to be adequately braced to prevent any horizontal movement or deflections.

SCALE 250 200 150 100 50

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S005

REV. B

WALL PRODUCTS &
STRUCTURAL PROPERTIES

SCALE 50 100 150 200 250

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

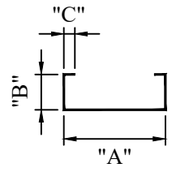
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S100

REV. B

WALL FRAMING STUDS

PARTITION STUDS

PRODUCT		DIMENSIONS			
	No.	"A"	"B"	"C"	THICKNESS
	5106PS	51	32	5	0.6
	6406PS	64	32	5	0.6
	7606PS	76	32	5	0.6
	9206PS	92	32	5	0.6
	5108PS	51	32	5	0.8
	6408PS	64	32	5	0.8
	7608PS	76	32	5	0.8
	9208PS	92	32	5	0.8
	1508PS	150	32	5	0.8
	6412PS	64	32	5	1.2
	7612PS	76	32	5	1.2
	9212PS	92	32	5	1.2
	15012PS	150	32	5	1.2

STANDARD LENGTHS TABLE

SIZE	LENGTHS					
"A"	2.4m	2.7m	3.0m	3.6m	4.2m	4.8m
51	✓	✓	✓	✓		
64	✓	✓	✓	✓	✓	
76	✓	✓	✓	✓	✓	✓
92	✓	✓	✓	✓	✓	✓
150	Made to order. Lengths available upon enquiry.					

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

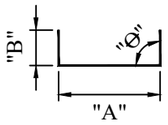
DRAWING NO. S101

REV. B

SCALE 250 200 150 100 50

WALL FRAMING PRODUCTS

NOGGINS & PLATES (non-cyclonic)

PRODUCT			DIMENSIONS			
		No.	"A"	"B"	THICKNESS	Standard length
	NOGGING PLATES	6406N	64	32	0.6	3.0m typical
		7606N	76	32	0.6	
		9206N	92	32	0.6	
		1508N	150	32	0.8	
	PLATES	5106P	51	32	0.6	
		6412P	64	32	1.2	
		7612P	76	32	1.2	
		9212P	92	32	1.2	
		1508P	150	32	0.8	
		15012P	150	32	1.2	

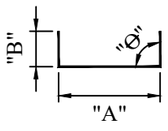
Notes:

PRODUCT No: Prefix no's as for partition studs (refer S101), followed by "N" for noggins (e.g. 7606N), "P" for plate, "DH" for deflection head, etc.

Typically dimension "A" to match partitions studs unless specified otherwise.

"~~Θ~~" Less than 90 Deg. to securely clamp stud.

DEFLECTION HEAD TRACK

PRODUCT		DIMENSIONS			
	No.	"A"	"B"	THICKNESS	Standard length
 Deflection Head 0.8mm & 1.2mm ONLY	6408DH	64	53.0	0.8	3.0m typical
	6412DH	64	53.0	1.2	
	7608DH	76	47.5	0.8	
	7612DH	76	47.5	1.2	
	9208DH	92	48.5	0.8	
	9212DH	92	48.5	1.2	
	1508DH	150	45.0	0.8	
	15012DH	150	45.0	1.2	

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

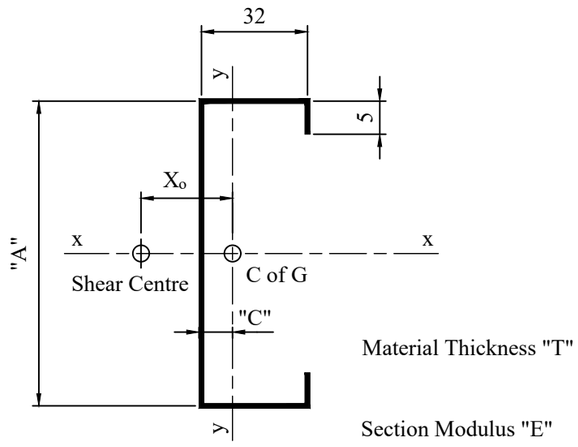
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S102 REV. B

SCALE 250 200 150 100 50

STRUCTURAL PROPERTIES OF PARTITION STUDS

Properties and capacities determined in accordance with AS 1538



Material Thickness "T"

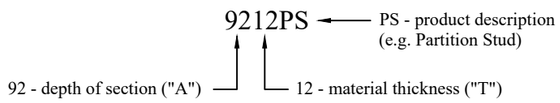
Section Modulus "E"

SECTION AND MATERIAL PROPERTIES

Section	Fy MPa	"A" mm	"C" mm	"T" mm	Mass kg/m	Area mm^2	Ixx x10E3 mm^4	Iyy x10E3 mm^4	Zxx x10E3 mm^3	Rx mm	Ry mm	Iw x10E3 mm^4	X_o mm	J mm^4	E MPa
5106PS	300	51	11.96	0.6	0.58	76.2	34.32	10.22	1.35	21.22	11.58	6.10	27.46	8.42	200000
6406PS	300	64	11.01	0.6	0.65	84.0	56.31	10.94	1.77	25.89	11.41	9.61	25.76	9.11	200000
7606PS	300	76	10.22	0.6	0.70	91.8	84.84	11.54	2.23	30.40	11.21	14.13	24.31	10.22	200000
9206PS	300	92	9.42	0.6	0.78	101.4	131.86	12.18	2.87	36.06	10.96	21.50	22.76	11.12	200000
5108PS	300	51	11.93	0.8	0.78	101.6	45.15	13.33	1.77	11.46	21.08	7.88	27.28	19.79	200000
6408PS	300	64	10.99	0.8	0.85	112.0	74.22	14.30	2.34	11.30	25.74	12.45	25.60	22.01	200000
7608PS	300	76	10.21	0.8	0.93	122.4	112.67	15.10	2.96	11.11	30.34	18.45	24.15	24.06	200000
9208PS	300	92	9.42	0.8	1.04	135.2	174.26	15.96	3.79	10.86	35.90	27.95	22.62	26.79	200000
1508PS	300	150	7.47	0.8	1.40	182.4	555.89	18.03	7.41	9.94	55.21	84.24	18.56	36.69	200000
6412PS	300	64	10.97	1.2	1.28	165	110.79	20.71	3.46	11.10	25.68	17.94	25.25	73.16	200000
7612PS	300	76	10.20	1.2	1.40	180	164.62	21.83	4.33	10.90	29.94	26.08	23.85	80.08	200000
9212PS	300	92	9.43	1.2	1.55	199	256.78	23.11	5.58	10.67	35.58	39.84	22.34	89.29	200000
15012PS	300	150	7.53	1.2	2.13	273	823.16	26.22	10.97	9.79	54.85	121.00	18.36	122.68	200000

Notes:

1. Bending loads calculated about the X-X axis.
2. Lateral support from wall claddings and linings not considered in calculations.
3. Section designation:



\# This section is primarily suitable in internal Non-Load bearing partition wall frames up to 8400mm max. height and studs up to 600mm max. centres, and subject to internal pressures of 0.25 KPa.

Wind (lateral) Load — Examples as appropriate to single storey buildings in urban locations

Terrain Category	Regional velocity	Mzcat	Qz	Cpe	Cpi	Stud spacing	Wind load
3	41 m/s	0.75	0.57 kPa	0.7	0.0	450	0.18 kN/m
3	41 m/s	0.75	0.57 kPa	0.7	0.0	600	0.24 kN/m

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S103 — REV. B

SCALE 250 200 150 100 50

NON-LOAD BEARING PARTITION DETAILS AND TABLES
(NON-SEISMIC)

SCALE 50 100 150 200 250

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

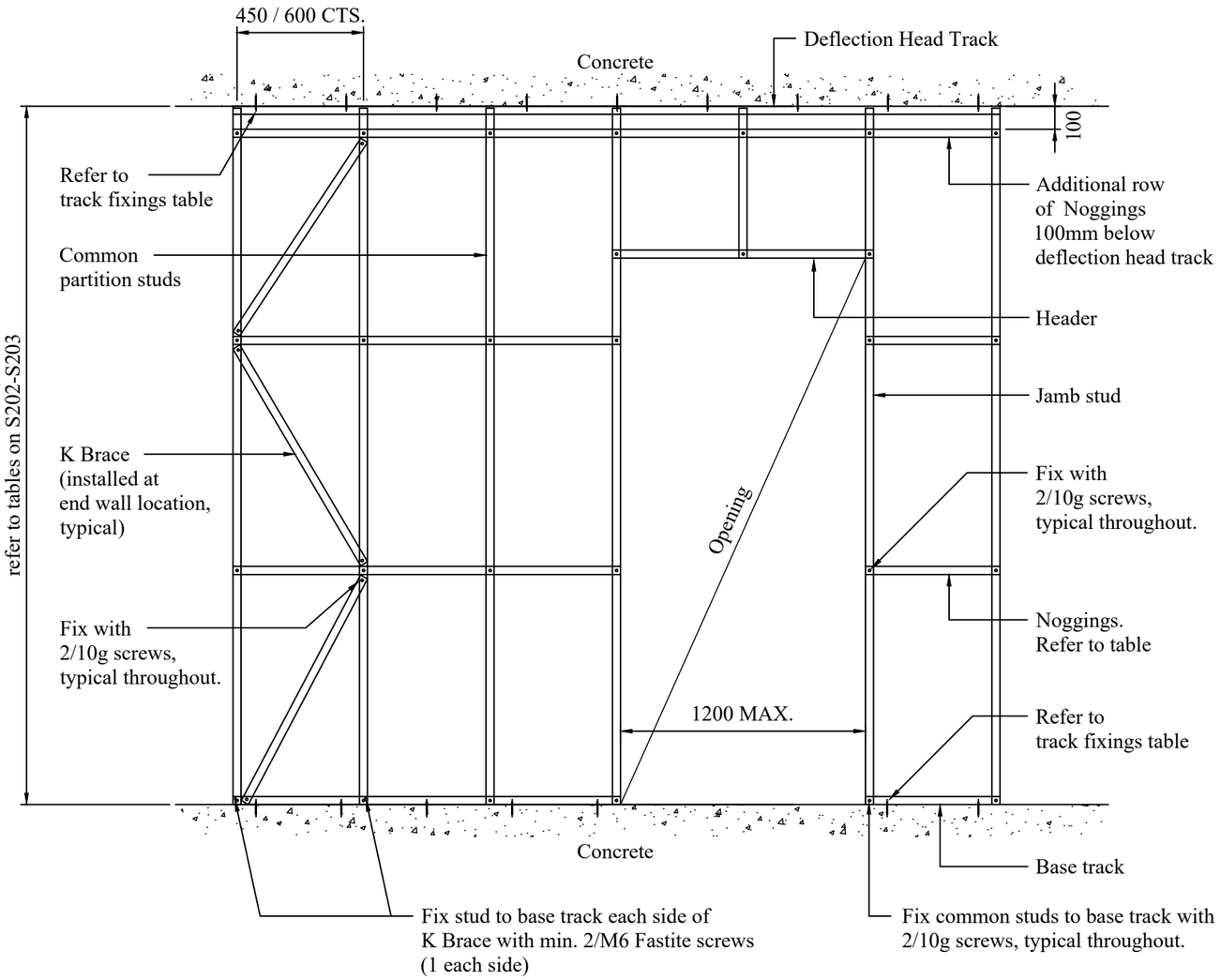
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S200

REV. B

INTERNAL PARTITION WALL FIXINGS & NOGGINGS - TYPE 1 (Non-seismic)

TYPE 1 APPLICATION - DIRECT FIX TO SOFFIT



HEAD & BASE TRACK FIXINGS

Substrate	Size	Connection
CONCRETE	51	1/ M6 x 50 RAMSET ANKASCREW^{TM} XTREM^{TM} (AS06050X) (45mm MINIMUM EDGE DISTANCE) AT 600 MAX CTS. AND WITHIN 100mm OF TRACK ENDS
	64	
	76	
	92	
	150	2/ M6 x 50 RAMSET ANKASCREW^{TM} XTREM^{TM} (AS06050X), OR 1/ M8 x 60 RAMSET ANKASCREW^{TM} XTREM^{TM} (AS06050X) (45mm MINIMUM EDGE DSTANCE) + 50 x 50 x 2mm LOAD SHARING WASHER AT 600 MAX CTS. AND WITHIN 100mm OF TRACK ENDS

Note: Similar approved anchors may be substituted for fixings listed in the above table.

NOGGINGS

Wall height (mm)	Lining conditions	No. of Noggings
up to 4400	both sides	2
4400 - 8800		3
up to 3000	lined one side	2
3000 - 6000		3
6000 - 8000		4
greater than 8000		5

Note: Walls connected to the underside of a concrete slab must be installed with Deflection Head Track and an additional row of Noggings installed 100mm below Deflection Head Track.

BRYKO PTY,LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

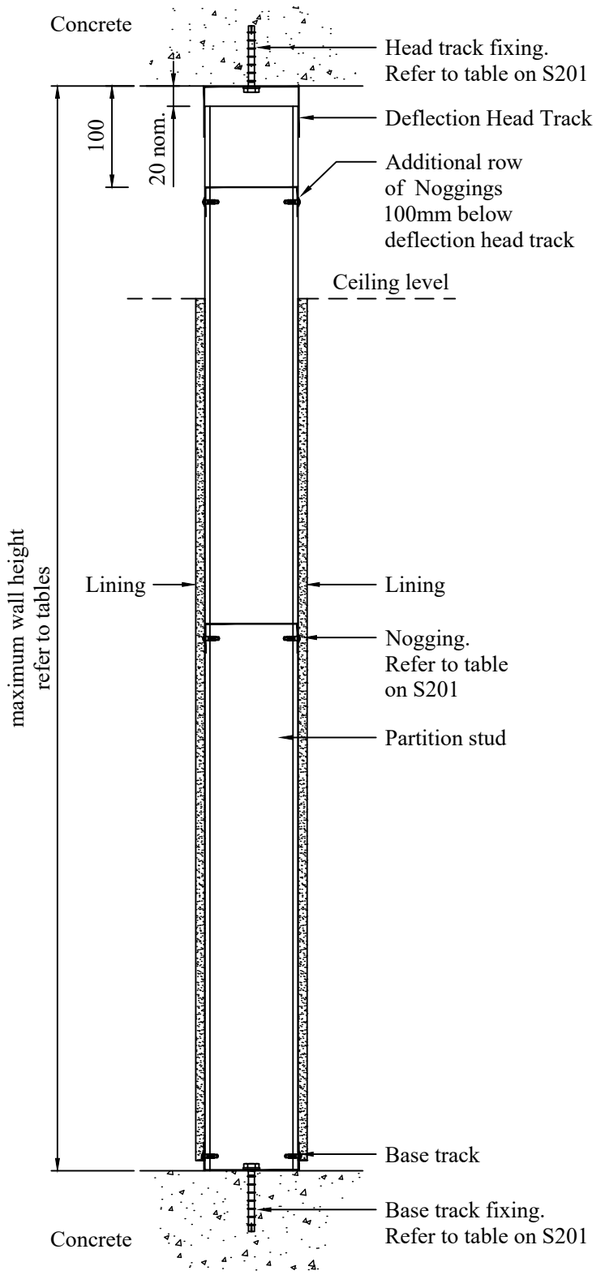
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S201 | REV. B

SCALE 250 200 150 100 50

INTERNAL PARTITION WALL MAXIMUM HEIGHTS TABLE

(Internal - Non-seismic)



INTERNAL NON-LOAD BEARING WALLS - L/240 PLASTERBOARD														
Stud		51mm		64mm			76mm			92mm			150mm	
Base Metal Thickness		0.6	0.8	0.6	0.8	1.2	0.6	0.8	1.2	0.6	0.8	1.2	0.8	1.2
Product No.		5106PS	5108PS	6406PS	6408PS	6412PS	7606PS	7608PS	7612PS	9206PS	9208PS	9212PS	1508PS	15012PS
Plasterboard Linings (mm)		STUD SPACING = 600												
Lined both sides	1x10mm	2700	2900	3300	3900	4100	3700	4400	4600	4500	4800	5100	6500	4100
	1x13mm	3200	3300	3700	4200	4400	4100	5000	5200	4900	5500	5700	6900	7500
	1x16mm	3300	3500	3900	4300	4500	4300	5200	5400	5100	5700	5900	7100	7600
Lined one side	1x10mm	2300	2600	2700	3100	3500	3200	3500	4000	3600	4100	4600	5300	6800
	1x13mm	2300	2600	2700	3200	3500	3200	3800	4000	3600	4100	4600	5300	6800
	1x16mm	2300	2600	2700	3200	3500	3200	3800	4000	3600	4200	4600	5300	6800
Plasterboard Linings (mm)		STUD SPACING = 450												
Lined both sides	1x10mm	3000	3200	3500	4100	4400	4000	4700	5000	4800	5200	5600	7100	7700
	1x13mm	3400	3500	3900	4400	4600	4400	5300	5500	5200	5800	6100	7500	8000
	1x16mm	3500	3700	4100	4600	4800	4500	5500	5700	5400	6100	6300	7600	8100
Lined one side	1x10mm	2500	2800	2900	3400	3800	3500	3900	4400	4000	4500	5100	6500	7400
	1x13mm	2500	2800	2900	3500	3900	3500	4100	4400	4000	4600	5100	6500	7400
	1x16mm	2500	2800	3000	3500	3900	3600	4200	4400	4000	4600	5100	6500	7400

These tables are for recommendation only, not Project specific. Always consult with the registered Project Engineer before installing partition system.

Notes:

1. Deflection Limit is span/240 to a maximum of 30mm at 0.25kPa, in accordance with the BCA Specification C1.8 2005.
2. Maximum wall heights refer to the structural wall heights only. Maximum wall heights may be reduce from those in the table for fire rated walls, refer to plasterboard manufacturer for this information.
3. Maximum wall heights are NOT for seismic lateral load, refer to Seismic design drawings S300+.
4. The tabulated heights are not for axial loads but do include self weight and lateral pressures.
5. Shelf loading is not permitted on the tabulated wall heights.
6. Loadings: a. Pultimate - 0.375 kPa
   b. Pservice - 0.25kPa
7. These walls are not for external applications.
8. All loading in accordance with AS1170:2002.
9. Walls analysed in accordance with AS4600:2005.

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

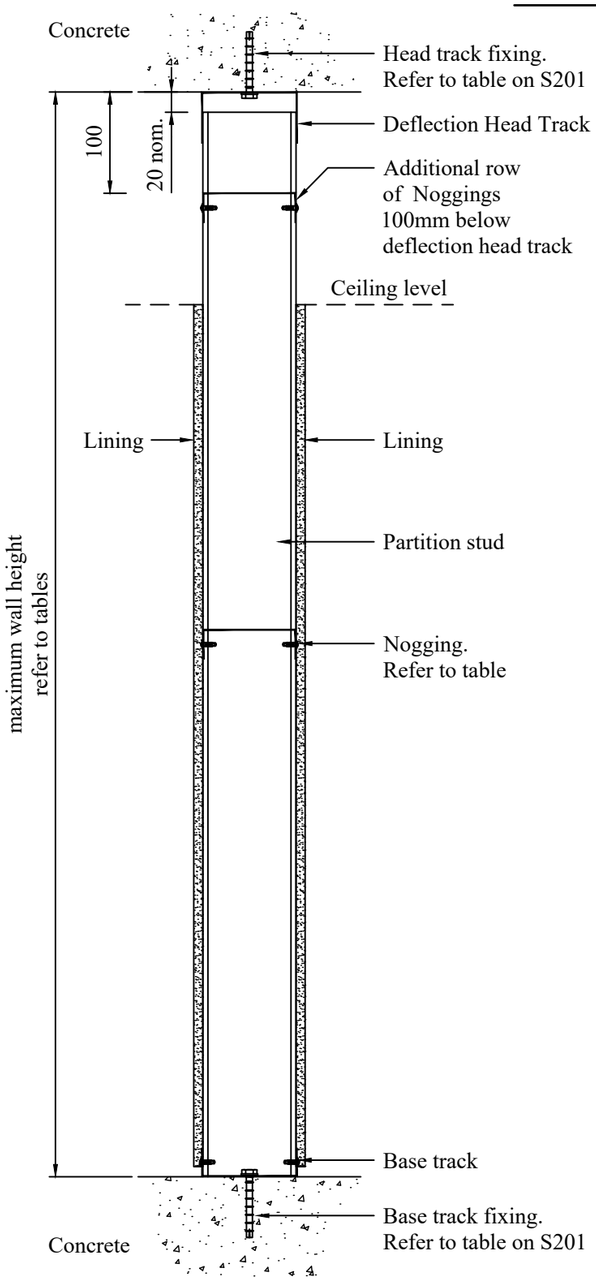
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S202 | REV. B

SCALE 250 200 150 100 50

INTERNAL PARTITION WALL MAXIMUM HEIGHTS TABLE

(Internal - Non-seismic)



INTERNAL NON-LOAD BEARING WALLS - L/360 BRITTLE SUBSTRATES														
Stud		51mm		64mm			76mm			92mm			150mm	
Base Metal Thickness		0.6	0.8	0.6	0.8	1.2	0.6	0.8	1.2	0.6	0.8	1.2	0.8	1.2
Product No.		5106PS	5108PS	6406PS	6408PS	6412PS	7606PS	7608PS	7612PS	9206PS	9208PS	9212PS	1508PS	15012PS
Plasterboard Linings (mm)		STUD SPACING = 600												
Lined both sides	1x10mm	2500	2600	2900	3400	3600	3300	4000	4200	4000	4400	4600	5800	6400
	1x13mm	2900	3000	3000	3700	3900	3700	4500	4600	4300	4900	5100	6100	6700
	1x16mm	3000	3100	3100	3800	4000	3800	4700	4800	4500	5100	5300	6300	6800
Lined one side	1x10mm	2000	2200	2300	2700	3000	2700	3100	3500	3200	3500	4000	5200	6000
	1x13mm	2000	2200	2300	2800	3100	2900	3400	3500	3200	3700	4100	5200	6000
	1x16mm	2000	2200	2400	2800	3100	2900	3400	3500	3200	3700	4100	5200	6000
Plasterboard Linings (mm)		STUD SPACING = 450												
Lined both sides	1x10mm	2700	2800	3100	3600	3900	3600	4300	4500	4200	4700	5000	6300	7000
	1x13mm	3000	3200	3400	3900	4100	3900	4600	4900	4500	5200	5500	6600	7200
	1x16mm	3100	3200	3600	4000	4200	4100	5000	5100	4800	5500	5700	6800	7400
Lined one side	1x10mm	2200	2500	2500	2900	3300	3000	3400	3800	3500	3900	4500	5700	6600
	1x13mm	2200	2500	2600	3100	3400	3200	3700	3800	3600	4100	4500	5700	6600
	1x16mm	2200	2500	2600	3100	3400	3200	3700	3800	3600	4100	4500	5700	6600

These tables are for recommendation only, not Project specific. Always consult with the registered Project Engineer before installing partition system.

Notes:

1. Deflection Limit is span/360 to a maximum of 30mm at 0.25kPa, in accordance with the BCA Specification C1.8 2005.
2. Maximum wall heights refer to the structural wall heights only. Maximum wall heights may be reduce from those in the table for fire rated walls, refer to plasterboard manufacturer for this information.
3. Maximum wall heights are NOT for seismic lateral load, refer to Seismic design drawings S300+.
4. The tabulated heights are not for axial loads but do include self weight and lateral pressures.
5. Shelf loading is not permitted on the tabulated wall heights.
6. Loadings: a. Pultimate - 0.375 kPa
   b. Pservice - 0.25kPa
7. These walls are not for external applications.
8. All loading in accordance with AS1170:2002.
9. Walls analysed in accordance with AS4600:2005.

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

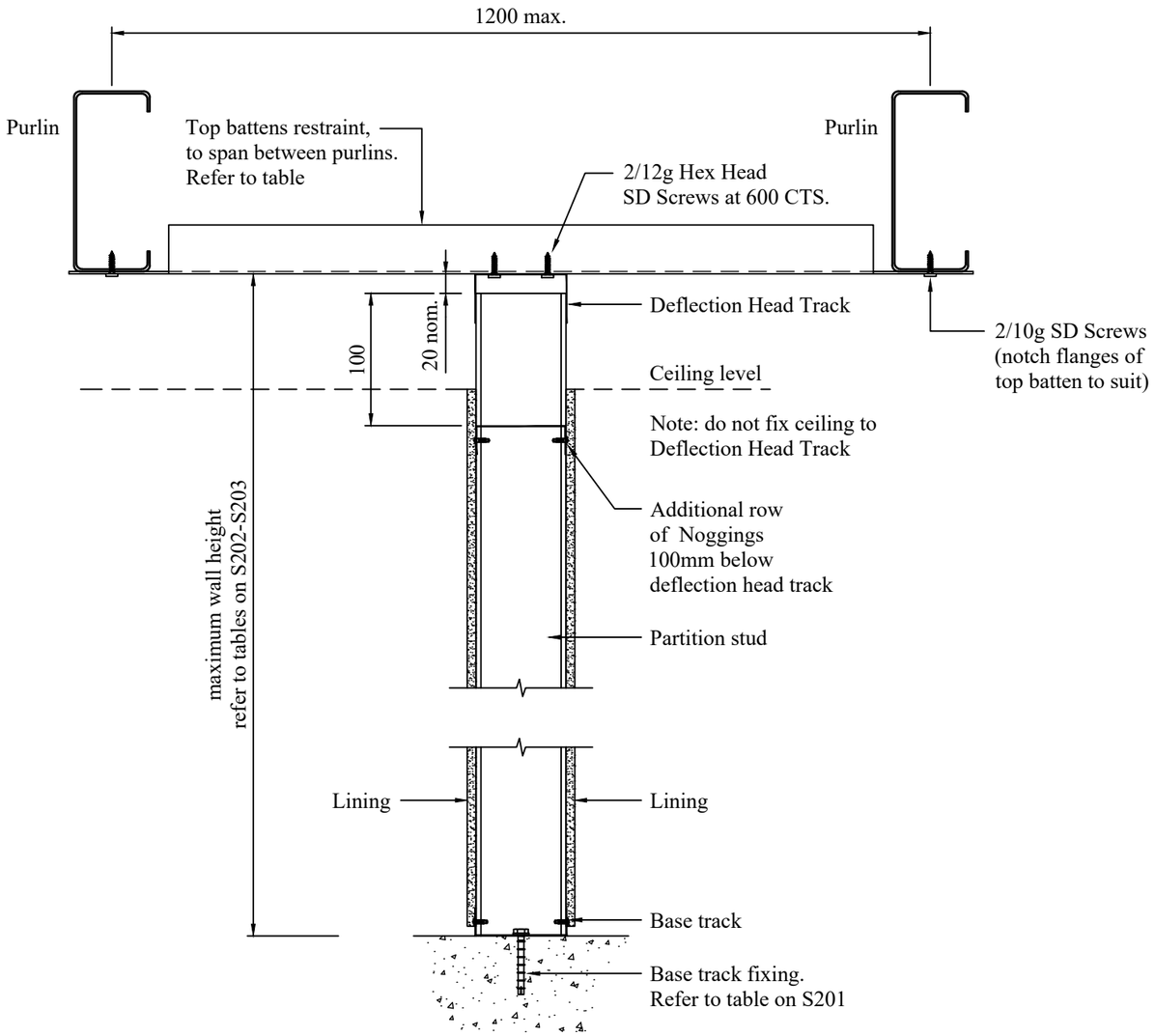
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S203 | REV. B

SCALE 250 200 150 100 50

INTERNAL PARTITION WALL - TYPE 2 (Non-seismic)

TYPE 2 APPLICATION - FLOOR TO UNDERSIDE OF PURLIN - TOP RESTRAINT TO STEEL STRUCTURE



TOP BATTEN RESTRAINT SCHEDULE					
	Size	BMT	Configuration	Product No.	Spacing
Top batten	92	1.2	Single	9212P	600 CTS.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

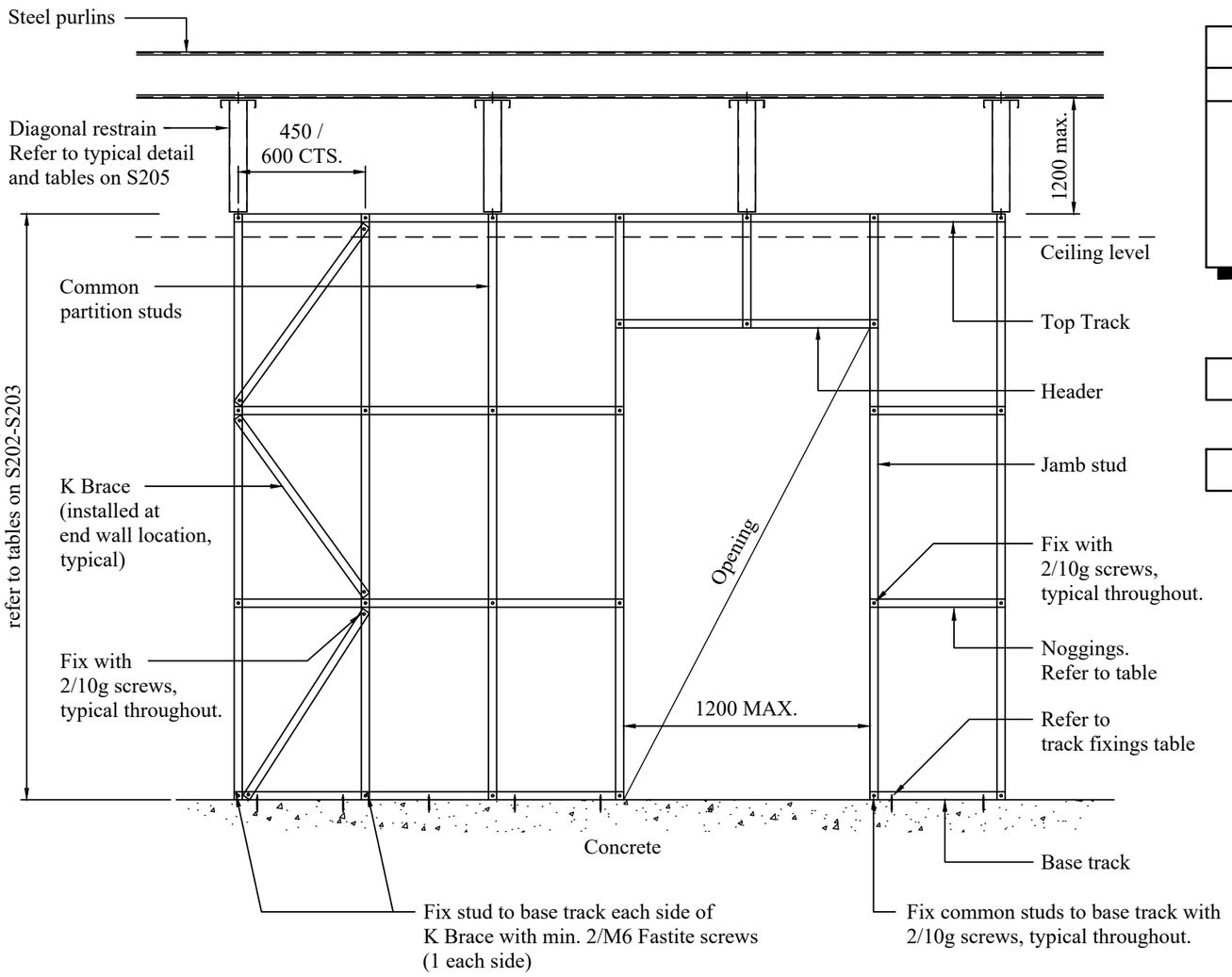
DRAWING NO. S204

REV. B

SCALE 250 200 150 100 50

PARTITION WALL FIXINGS & NOGGINGS - TYPE 3 (Internal - Non-seismic)

TYPE 3 APPLICATION - CEILING PLENUM TO PURLINS



TOP TRACK FIXINGS		
Substrate	Size	Connection
STRUCTURAL STEEL	51	2/ #12g HEX HD SD SCREWS AT 600 MAX CTS. AND WITHIN 100mm OF TRACK ENDS
	64	
	76	
	92	
	150	

BASE TRACK FIXINGS - REFER TO TABLE ON S201

NOGGINGS - REFER TO TABLE ON S201

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

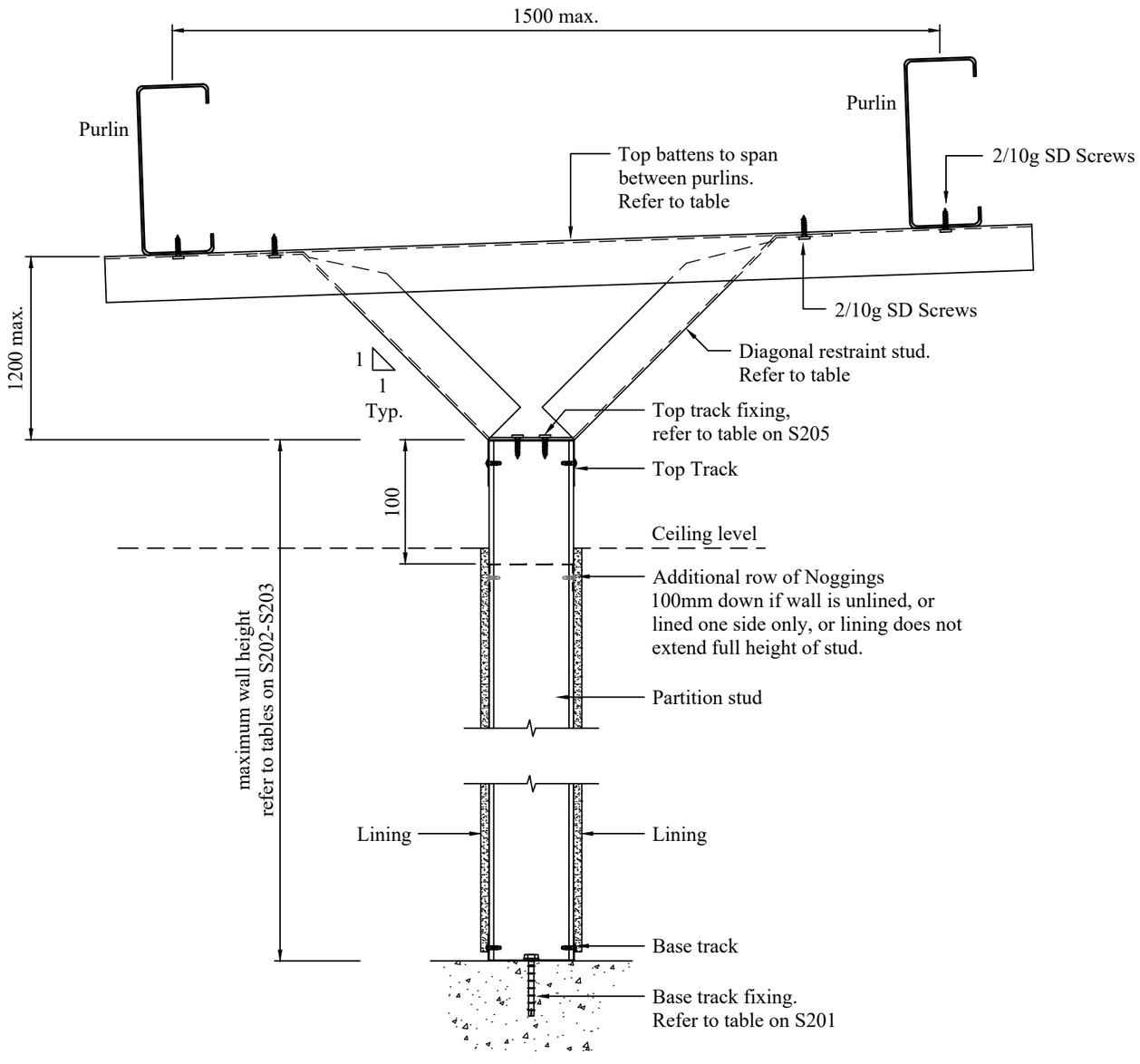
BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S205 | REV. B

SCALE 250 200 150 100 50

INTERNAL PARTITION WALL DIAGONAL RESTRAINT (Internal - Non-seismic)



DIAGONAL RESTRAINT SCHEDULE					
	Size	BMT	Configuration	Product No.	Spacing
Diagonal restraint stud	76	1.2	Single	7612PS	600 CTS.
Top batten	76	1.2	Single	7612P	

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

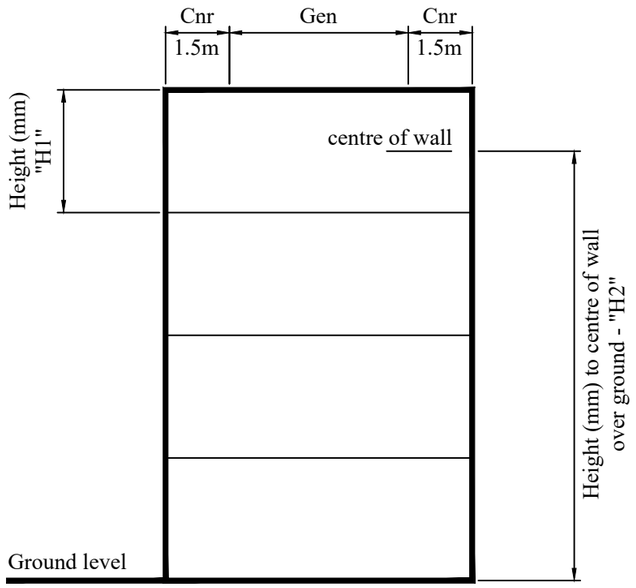
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S206

REV. B

SCALE 250 200 150 100 50

EXTERNAL WALLS STUD TABLE (Non load bearing - Non-seismic - lateral wind only)



Deflection Limit H/240 Terrain Category TC3	Height (mm) "H1"	Height (mm) to centre of wall over ground - "H2"											
		up to 10		11		12		13		14		15	
		Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr
		1.14	1.31	1.17	1.35	1.20	1.39	1.24	1.43	1.27	1.47	1.31	1.51
		STUD SPACING = 600											
	2.5m	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS
	2.6m	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9212PS
	2.7m	9208PS	9208PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS
	2.8m	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS
	2.9m	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS
	3.0m	9212PS	9212PS	9212PS	9212PS	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A
	Height (mm) "H1"	Height (mm) to centre of wall over ground - "H2"											
		16		17		18		19		20		21	
		Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr
		1.34	1.54	1.37	1.58	1.40	1.61	1.43	1.65	1.46	1.68	1.48	1.70
		STUD SPACING = 450											
	2.5m	9206PS	9206PS	9206PS	9206PS	9206PS	9206PS	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS
	2.6m	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS
	2.7m	9206PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS
	2.8m	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS
	2.9m	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS
	3.0m	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS
	3.1m	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS
	3.2m	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A

Note: These tables are to be read in consultation with the registered Project Engineer. Tables are not Project specific.

Cnr = 1.5m from building edge
Gen = General wall length

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

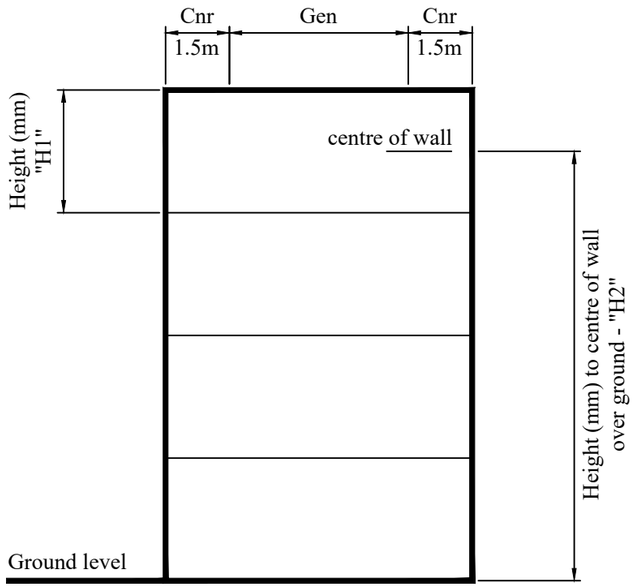
BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S207 | REV. B

SCALE 250 200 150 100 50

EXTERNAL WALLS STUD TABLE (Non load bearing - Non-seismic - lateral wind only)



Deflection Limit H/240 Terrain Category TC2.5	Height (mm) "H1"	Height (mm) to centre of wall over ground - "H2"											
		up to 10		11		12		13		14		15	
		Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr
		1.14	1.31	1.17	1.35	1.20	1.39	1.24	1.43	1.27	1.47	1.31	1.51
		STUD SPACING = 600											
2.5m		9208PS	9208PS	9208PS	9208PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS
2.6m		9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9212PS	9212PS
2.7m		9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS
2.8m		9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	N/A
2.9m		9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A
	Height (mm) "H1"	Height (mm) to centre of wall over ground - "H2"											
		16		17		18		19		20		21	
		Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr	Gen	Cnr
		1.34	1.54	1.37	1.58	1.40	1.61	1.43	1.65	1.46	1.68	1.48	1.70
		STUD SPACING = 450											
2.5m		9206PS	9208PS	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS	9206PS	9208PS	9208PS	9208PS
2.6m		9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS	9208PS
2.7m		9208PS	9208PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS	9208PS	9212PS
2.8m		9208PS	9212PS	9208PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS
2.9m		9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS
3.0m		9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	9212PS	N/A
3.1m		9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A	9212PS	N/A

Note: These tables are to be read in consultation with the registered Project Engineer. Tables are not Project specific.

Cnr = 1.5m from building edge
Gen = General wall length

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S208 REV. B

SCALE 250 200 150 100 50

NON-LOAD BEARING PARTITION DETAILS AND TABLES
(SEISMIC DESIGN)

SCALE 250 200 150 100 50

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

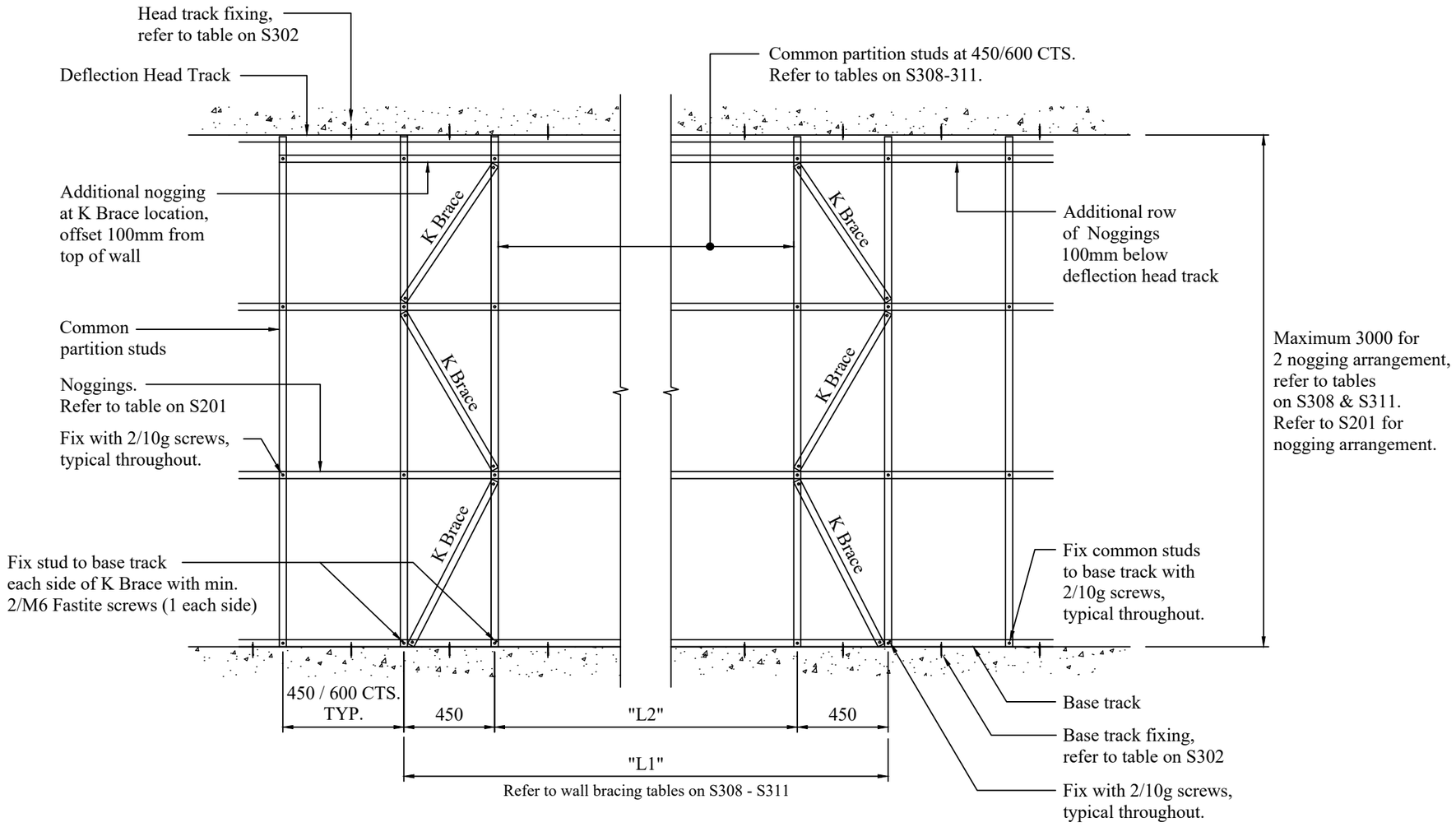
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S300

REV. B

INTERNAL PARTITION WALL - TYPE 1 (Seismic design)

TYPE 1 APPLICATION - FULL HEIGHT FLOOR TO SOFFIT
DIRECT FIX TO SOFFIT



BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

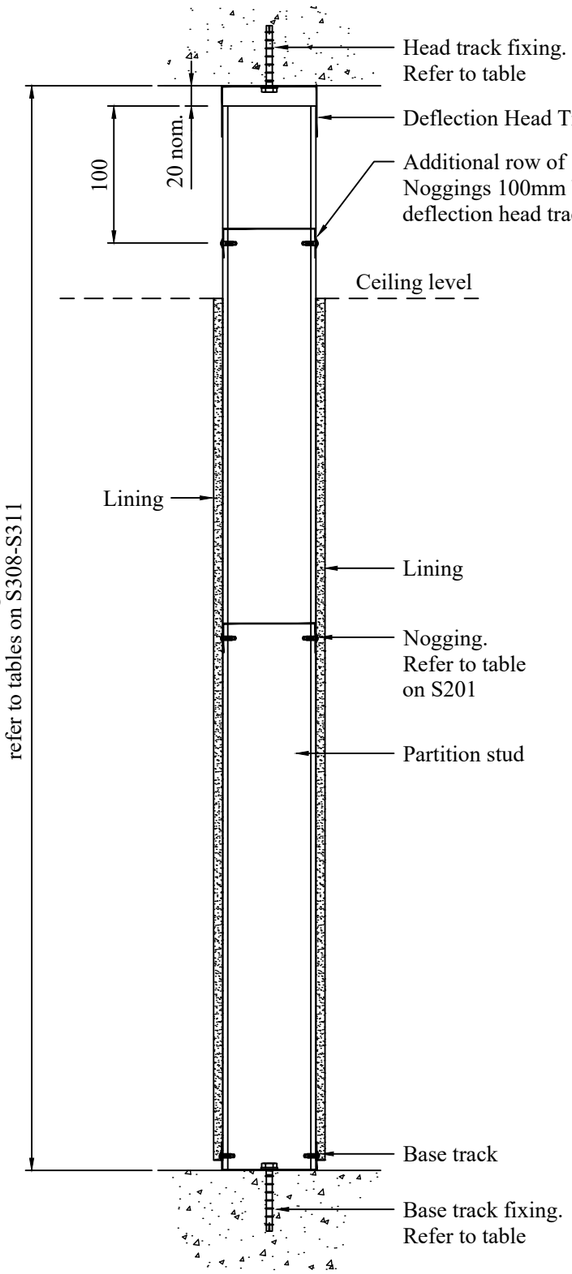
BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S301 | REV. B

SCALE 250 200 150 100 50

HEAD TRACK FIXING (Seismic design)



HEAD TRACK SCHEDULE				
Studs	Deflection Limit	Deflection Head Track		
		Size	BMT	Product No.
6408PS	span/240 span/360	64	0.8	6408DH
6412PS		64	1.2	6412DH
7608PS		76	0.8	7608DH
7612PS		76	1.2	7612DH
9212PS		92	1.2	9212DH
15012PS		150	1.2	15012DH

HEAD & BASE TRACK FIXINGS		
Substrate	Size	Connection
CONCRETE	51	1/ M6 x 50 RAMSET ANKASCREW™ XTREM™ (AS06050X) (45mm MINIMUM EDGE DISTANCE) AT 600 MAX CTS. AND WITHIN 100mm OF TRACK ENDS
	64	
	76	
	92	
	150	2/ M6 x 50 RAMSET ANKASCREW™ XTREM™ (AS06050X), OR 1/ M8 x 60 RAMSET ANKASCREW™ XTREM™ (AS06050X) (45mm MINIMUM EDGE DSTANCE) + 50 x 50 x 2mm LOAD SHARING WASHER AT 600 MAX CTS. AND WITHIN 100mm OF TRACK ENDS

Notes:

1. Deflection Limit is span/240 (or span/360 as applicable) to a maximum of 30mm at 0.25kPa, in accordance with the BCA Specification C1.8 2005.
2. Maximum wall heights refer to the structural wall heights only. Maximum wall heights may be reduce from those in the table for fire rated walls, refer to plasterboard manufacturer for this information.
3. The tabulated heights are not for axial loads but do include self weight and lateral pressures.
4. Shelf loading is not permitted on the tabulated wall heights.
5. Loadings: a. Pultimate - 0.375 kPa
   b. Pservice - 0.25kPa
6. These walls are not for external applications.
7. All loading in accordance with AS1170:2002.
8. Walls analysed in accordance with AS4600:2005.
9. Similar approved anchors may be substituted for fixings listed in the above table.

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

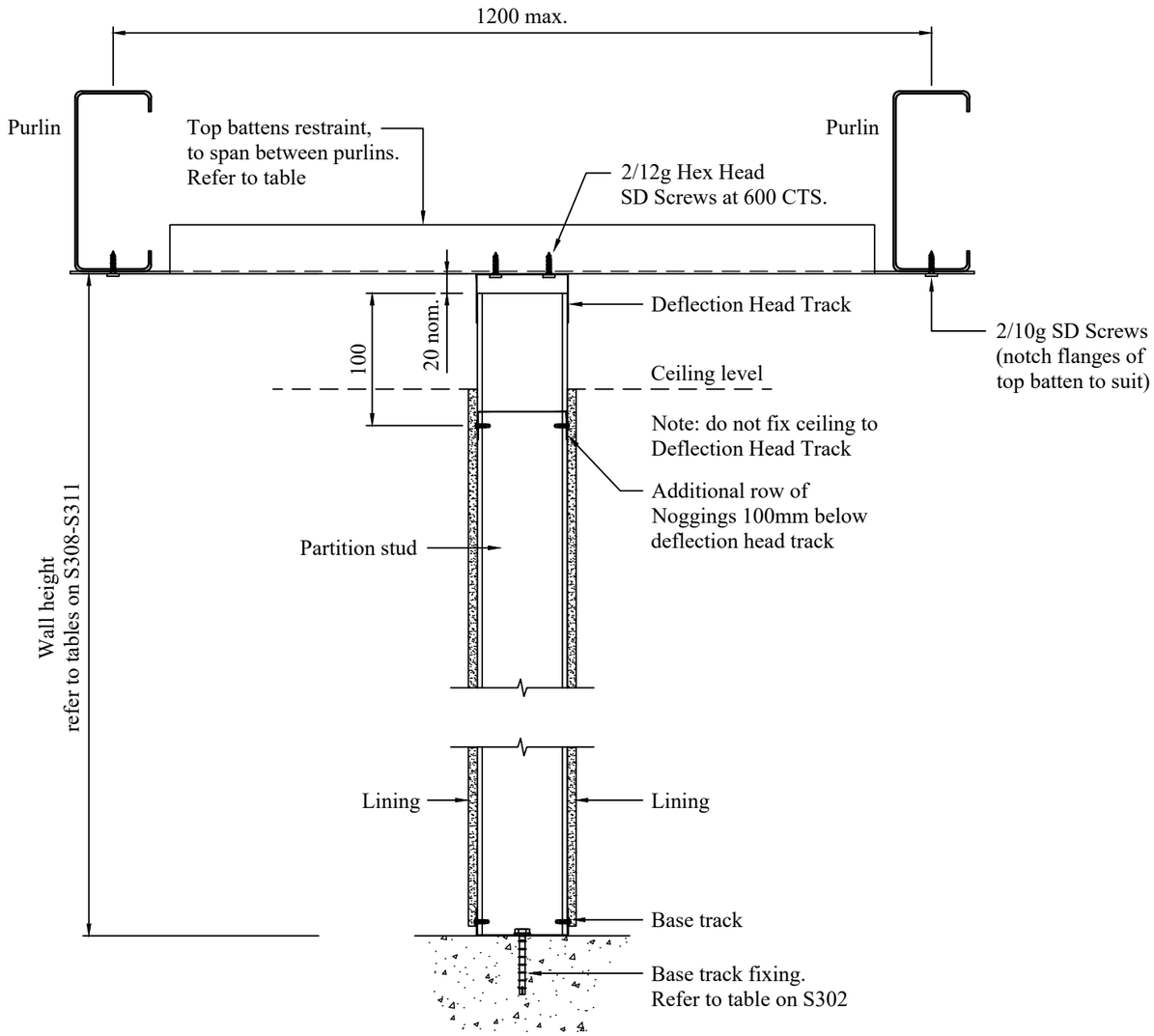
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S302 | REV. B

SCALE 250 200 150 100 50

INTERNAL PARTITION WALL - TYPE 2 (Seismic design)

TYPE 2 APPLICATION - FULL HEIGHT FLOOR TO PURLIN
FXIED TO PURLIN BATTEN RESTRAINT



HEAD TRACK SCHEDULE				
Studs	Deflection Limit	Deflection Head Track		
		Size	BMT	Product No.
6408PS	span/240 span/360	64	0.8	6408DH
6412PS		64	1.2	6412DH
7608PS		76	0.8	7608DH
7612PS		76	1.2	7612DH
9212PS		92	1.2	9212DH
15012PS		150	1.2	15012DH

TOP BATTEN RESTRAINT SCHEDULE					
	Size	BMT	Configuration	Product No.	Spacing
Top batten	92	1.2	Single	9212P	600 CTS.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

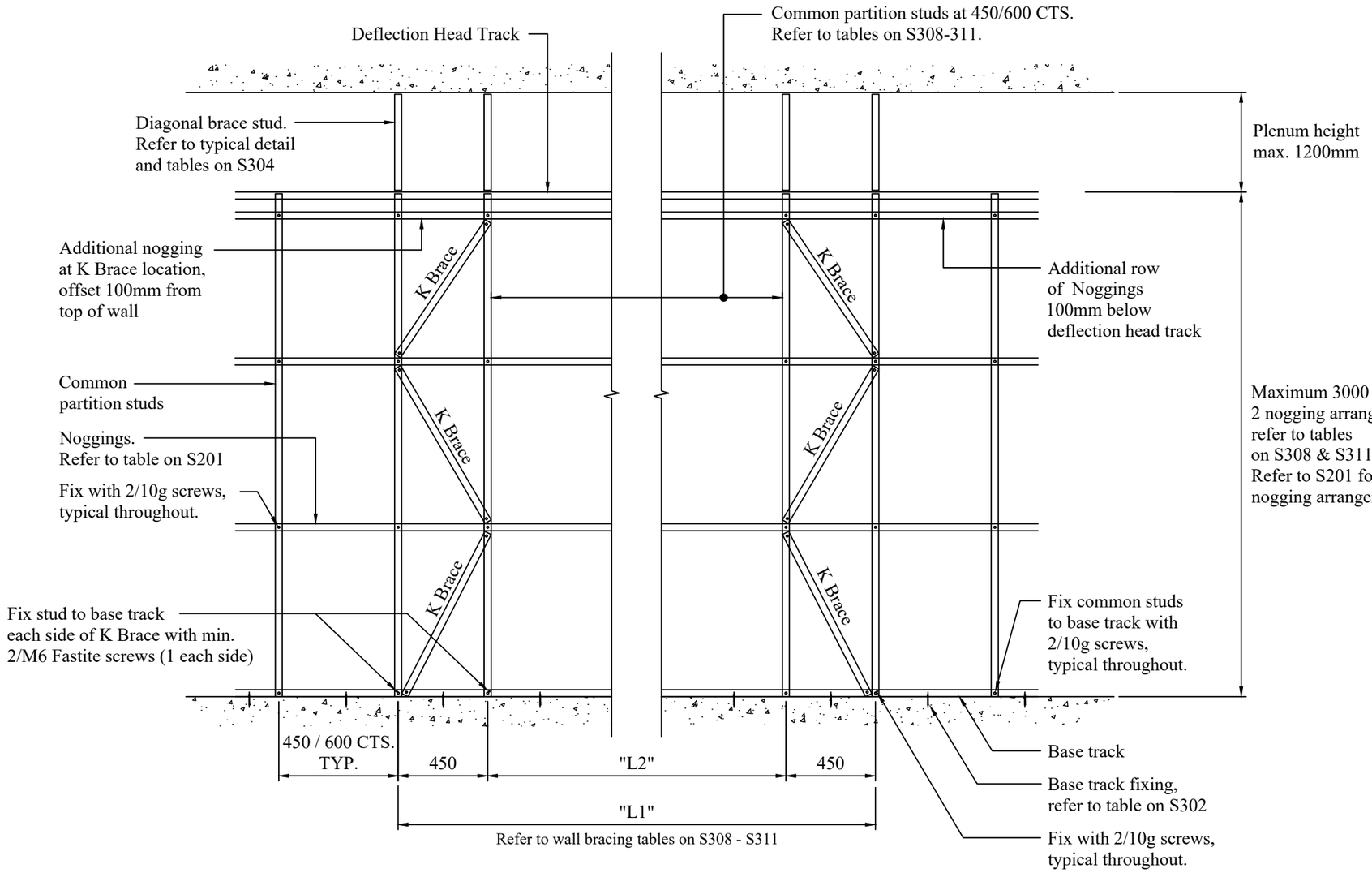
DRAWING NO. S303

REV. B

SCALE 250 200 150 100 50

INTERNAL PARTITION WALL - TYPE 3 (Seismic design)

TYPE 3 APPLICATION - CEILING PLENUM BRACING



SCALE 250 200 150 100 50

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

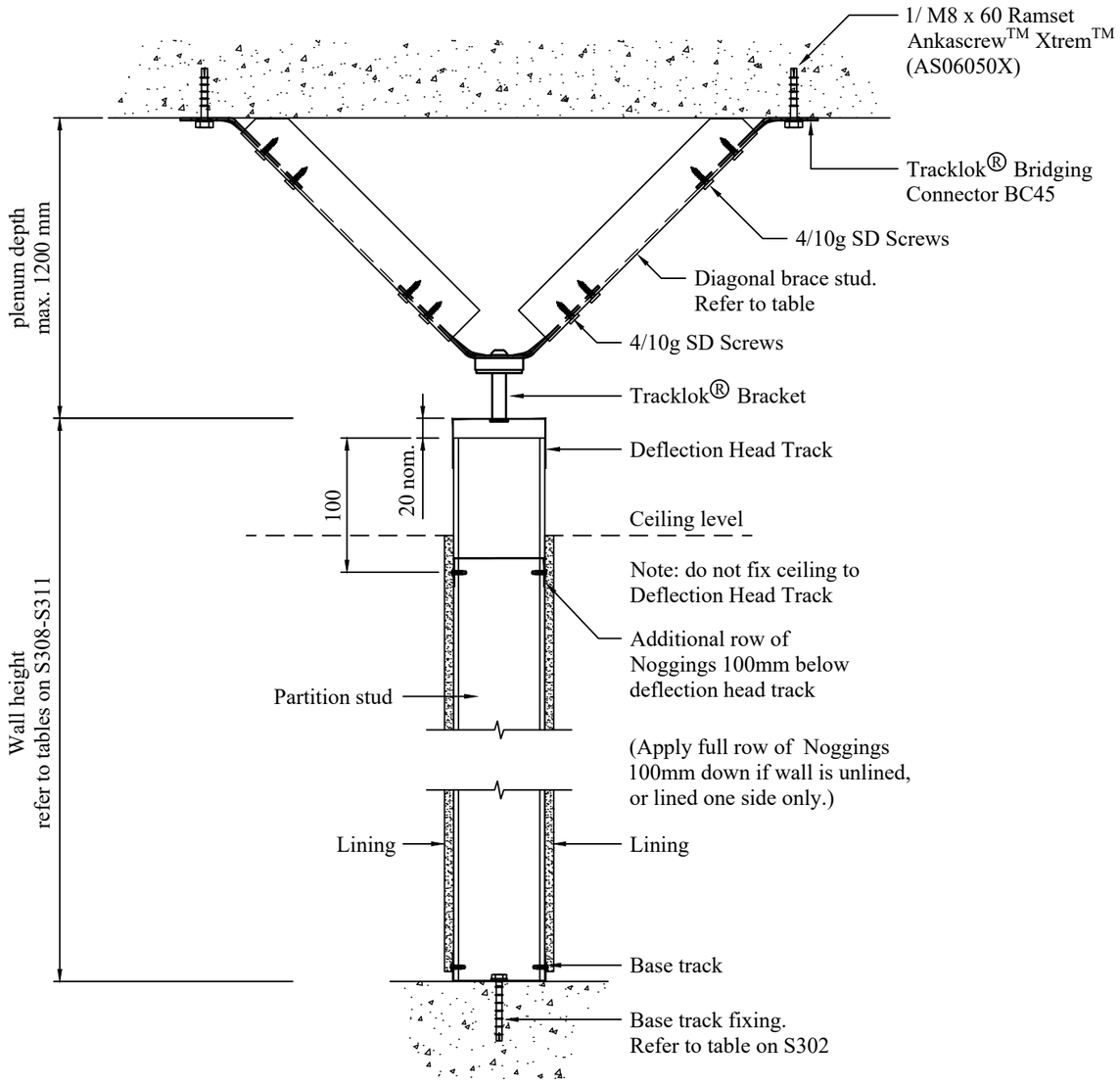
NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S304 REV. B

HEAD TRACK FIXING - WALL PLENUM BRACING (Seismic design)



HEAD TRACK SCHEDULE

Studs	Deflection Limit	Deflection Head Track			Tracklock® spacing limits	
		Size	BMT	Product No.	Min.	Max.
6408PS	span/240 span/360	64	0.8	6408DH	1600	1900
6412PS		64	1.2	6412DH	1600	2200
7608PS		76	0.8	7608DH	1600	2000
7612PS		76	1.2	7612DH	1600	2400
9212PS		92	1.2	9212DH	1600	2600
15012PS		150	1.2	15012DH	1600	3000

BRACE SCHEDULE

Plenum Depth	Diagonal Brace Stud			
	Size	BMT	Configuration	Product No.
400 min. - 1400	92	0.8	Single	9208PS
1400 - 2000	92	1.2	Single	9212PS

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

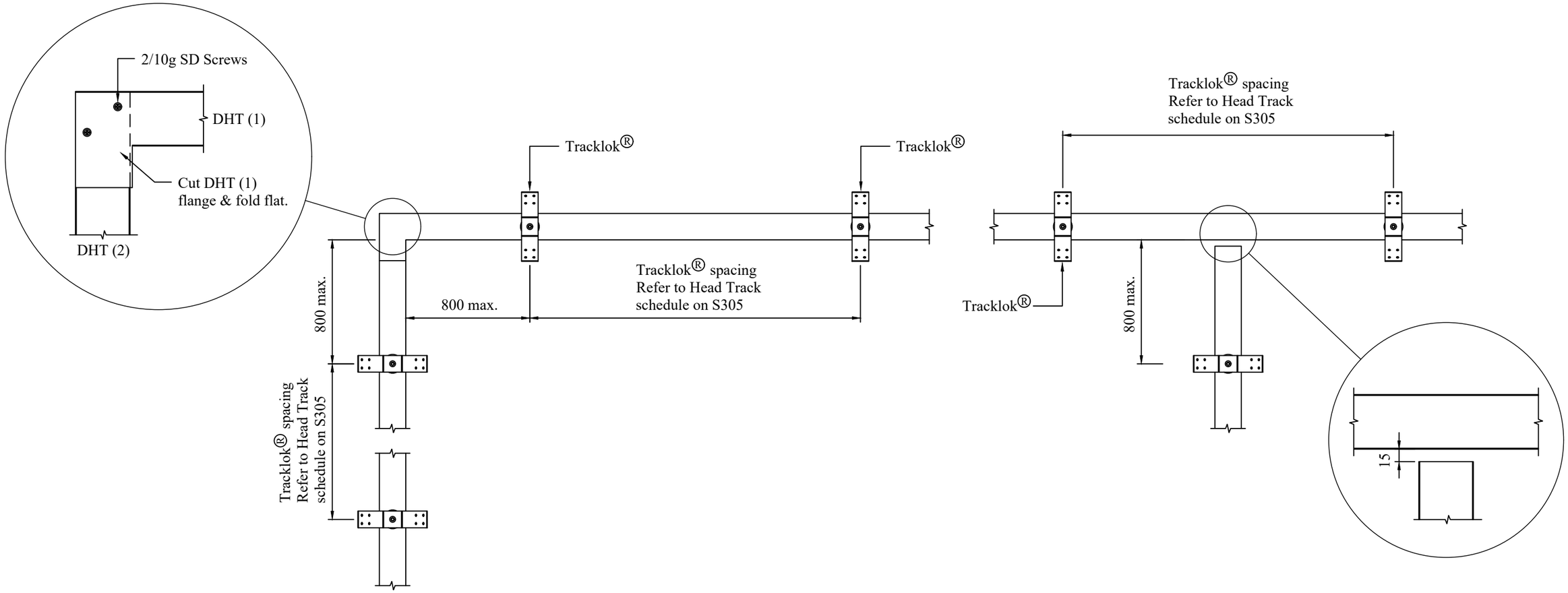
BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S305 | REV. B

SCALE

DEFLECTION HEAD TRACK PLANS



TRACK LAYOUT PLAN - 90° INTERSECTION

TRACK LAYOUT PLAN - TEE INTERSECTION

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT
SPECIFICATION AND
INSTALLATION GUIDE

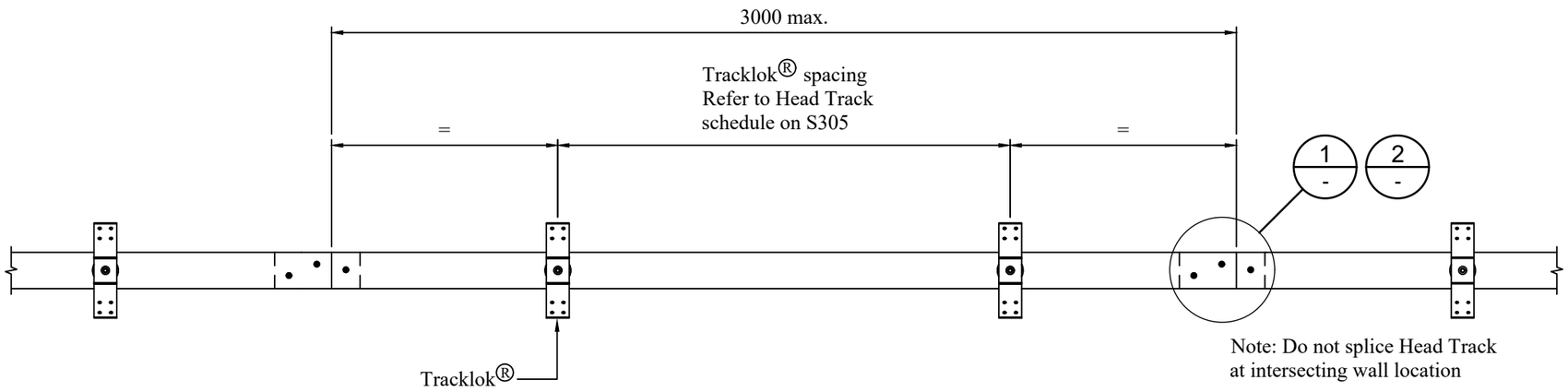
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S306

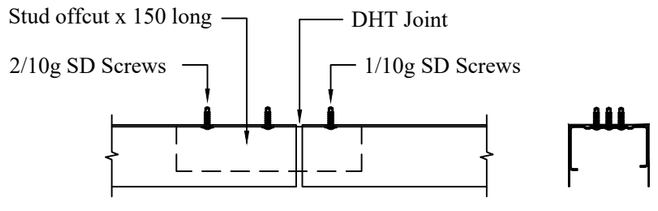
REV. B

SCALE 250 200 150 100 50

DEFLECTION HEAD TRACK PLANS (continued)

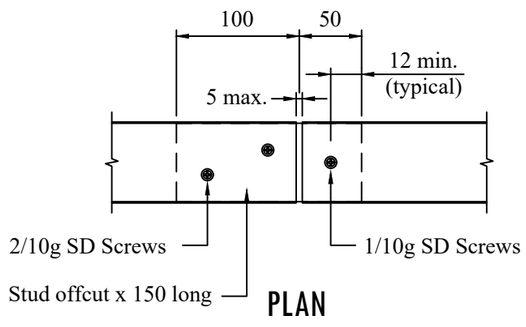


TRACK LAYOUT PLAN - STRAIGHT RUN



ELEVATION

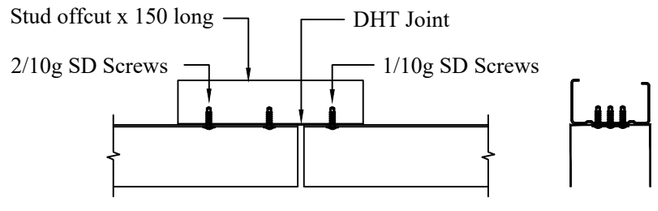
SECTION



PLAN

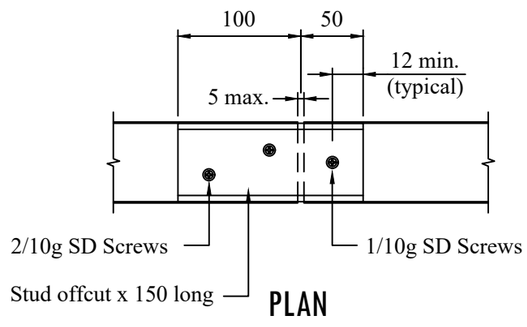
HEAD TRACK SPLICE DETAIL - TYPE 1

1
-



ELEVATION

SECTION



PLAN

HEAD TRACK SPLICE DETAIL - TYPE 2

2
-

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT
SPECIFICATION AND
INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S307

REV. B

SCALE

WALL BRACING TABLES - 64mm STUDS

6406PS

INTERNAL PRESSURE < 0.6 kPa			INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight			EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2400	1500	max. 3000	2500	1600
max. 2700	2700	1800	max. 2700	2800	1900
EQ = 4.5% of Self-Weight			EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2700	1800	max. 3000	2800	1900
max. 2700	2950	2050	max. 2700	3100	2200
EQ = 4.0% of Self-Weight			EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2800	1900	max. 3000	2950	2050
max. 2700	3150	2250	max. 2700	3250	2350
EQ = 3.5% of Self-Weight			EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2850	1950	max. 3000	2950	2050
max. 2700	3200	2300	max. 2700	3500	2600
EQ = 3.0% of Self-Weight			EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2900	2000	max. 3000	3000	2100
max. 2700	3250	2350	max. 2700	3400	2500

6408PS

INTERNAL PRESSURE < 0.6 kPa			INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight			EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2550	1650	max. 3000	2630	1730
max. 2700	2830	1930	max. 2700	2930	2030
EQ = 4.5% of Self-Weight			EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2830	1930	max. 3000	2950	2050
max. 2700	3100	2200	max. 2700	3230	2330
EQ = 4.0% of Self-Weight			EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2950	2050	max. 3000	3100	2200
max. 2700	3300	2400	max. 2700	3400	2500
EQ = 3.5% of Self-Weight			EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	3000	2100	max. 3000	3100	2200
max. 2700	3350	2450	max. 2700	3500	2600
EQ = 3.0% of Self-Weight			EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	3050	2150	max. 3000	3150	2250
max. 2700	3400	2500	max. 2700	3530	2630

6412PS

INTERNAL PRESSURE < 0.6 kPa			INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight			EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2700	1800	max. 3000	2800	1900
max. 2700	2950	2050	max. 2700	3100	2200
EQ = 4.5% of Self-Weight			EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	2950	2050	max. 3000	3100	2200
max. 2700	3250	2350	max. 2700	3400	2500
EQ = 4.0% of Self-Weight			EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	3100	2200	max. 3000	3250	2350
max. 2700	3450	2550	max. 2700	3550	2650
EQ = 3.5% of Self-Weight			EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	3150	2250	max. 3000	3250	2350
max. 2700	3500	2600	max. 2700	3650	2750
EQ = 3.0% of Self-Weight			EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)	H (mm)	L1 (mm)	L2 (mm)
max. 3000	3200	2300	max. 3000	3300	2400
max. 2700	3550	2650	max. 2700	3700	2800

Note: These tables are to be read in consultation with the registered Project Engineer. Tables are not Project specific.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S308 | REV. B

SCALE 250 200 150 100 50

WALL BRACING TABLES - 76mm STUDS

7606PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	2550	1650
max. 2700	2900	2000
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	2900	2000
max. 2700	3200	2300
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	3050	2150
max. 2700	3400	2500
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2700	1800
max. 3000	3100	2200
max. 2700	3500	2600
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2750	1850
max. 3000	3150	2250
max. 2700	3550	2650

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	2700	1800
max. 2700	3000	2100
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	3050	2150
max. 2700	3350	2450
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2850	1950
max. 3000	3200	2300
max. 2700	3550	2650
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2750	1850
max. 3000	3200	2300
max. 2700	3650	2750
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2900	2000
max. 3000	3300	2400
max. 2700	3700	2800

7608PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	2700	1800
max. 2700	3050	2150
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	3050	2150
max. 2700	3350	2450
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2850	1950
max. 3000	3200	2300
max. 2700	3550	2650
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2850	1950
max. 3000	3250	2350
max. 2700	3650	2750
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2900	2000
max. 3000	3300	2400
max. 2700	3700	2800

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	-	-
max. 3000	2830	1930
max. 2700	3150	2250
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2900	2000
max. 3000	3200	2300
max. 2700	3500	2600
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2960	2060
max. 3000	3330	2430
max. 2700	3700	2800
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	2900	2000
max. 3000	3350	2450
max. 2700	3800	2900
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 3600	3030	2130
max. 3000	3430	2530
max. 2700	3830	2930

7612PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	-	-
max. 3000	2750	1850
max. 2700	3000	2200
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	2800	1900
max. 3000	3150	2250
max. 2700	3500	2600
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	3200	2300
max. 3000	3600	2700
max. 2700	4000	3100
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	2750	1850
max. 3600	3200	2300
max. 3000	3650	2750
max. 2700	4100	3200
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	2630	1730
max. 3600	3030	2130
max. 3000	3430	2530
max. 2700	3830	2930

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	2850	1950
max. 3000	3150	2250
max. 2700	3450	2550
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	3200	2300
max. 3000	3550	2650
max. 2700	3900	3000
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	3000	2100
max. 3600	3350	2450
max. 3000	3700	2800
max. 2700	4050	3150
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	3100	2200
max. 3600	3450	2550
max. 3000	3800	2900
max. 2700	4150	3250
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	3150	2250
max. 3600	3500	2600
max. 3000	3850	2950
max. 2700	4200	3300

Note: These tables are to be read in consultation with the registered Project Engineer. Tables are not Project specific.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S309 | REV. B

SCALE 250 200 150 100 50

WALL BRACING TABLES - 92mm STUDS

9206PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	-	-
max. 3000	2750	1850
max. 2700	3000	2200
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	2800	1900
max. 3000	3150	2250
max. 2700	3500	2600
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	2900	2000
max. 3000	3300	2400
max. 2700	3700	2800
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	2450	1550
max. 3600	2900	2000
max. 3000	3350	2450
max. 2700	3800	2900
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	2530	1630
max. 3600	2970	2070
max. 3000	3410	2510
max. 2700	3850	2950

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	2550	1650
max. 3000	2850	1950
max. 2700	3150	2250
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	-	-
max. 3600	2900	2000
max. 3000	3250	2350
max. 2700	3600	2700
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	2700	1800
max. 3600	3050	2150
max. 3000	3400	2500
max. 2700	3750	2850
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	2800	1900
max. 3600	3150	2250
max. 3000	3500	2600
max. 2700	3850	2950
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4200	2850	1950
max. 3600	3200	2300
max. 3000	3550	2650
max. 2700	3900	3000

9208PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	-	-
max. 3600	2550	1650
max. 3000	2900	2000
max. 2700	3250	2350
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	2600	1700
max. 3600	2950	2050
max. 3000	3300	2400
max. 2700	3650	2750
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	2650	1750
max. 3600	3050	2150
max. 3000	3450	2550
max. 2700	3850	2950
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	2600	1700
max. 3600	3050	2150
max. 3000	3500	2600
max. 2700	3950	3050
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2240	1340
max. 4200	2680	1780
max. 3600	3120	2220
max. 3000	3560	2660
max. 2700	4000	3100

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	2400	1500
max. 3600	2700	1800
max. 3000	3000	2100
max. 2700	3300	2400
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	2700	1800
max. 3600	3050	2150
max. 3000	3400	2500
max. 2700	3750	2850
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2500	1600
max. 4200	2850	1950
max. 3600	3200	2300
max. 3000	3550	2650
max. 2700	3900	3000
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2600	1700
max. 4200	2950	2050
max. 3600	3300	2400
max. 3000	3650	2750
max. 2700	4000	3100
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2650	1750
max. 4200	3000	2100
max. 3600	3350	2450
max. 3000	3700	2800
max. 2700	4050	3150

9212PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	2350	1450
max. 3600	2700	1800
max. 3000	3050	2150
max. 2700	3400	2500
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	-	-
max. 4200	-	-
max. 3600	3100	2200
max. 3000	3450	2550
max. 2700	3800	2900
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2400	1500
max. 4200	2800	1900
max. 3600	3200	2300
max. 3000	3600	2700
max. 2700	4000	3100
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2300	1400
max. 4200	2750	1850
max. 3600	3200	2300
max. 3000	3650	2750
max. 2700	4100	3200
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2390	1490
max. 4200	2830	1930
max. 3600	3270	2370
max. 3000	3710	2810
max. 2700	4150	3250

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2250	1350
max. 4200	2550	1650
max. 3600	2850	1950
max. 3000	3150	2250
max. 2700	3450	2550
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2500	1600
max. 4200	2850	1950
max. 3600	3200	2300
max. 3000	3550	2650
max. 2700	3900	3000
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2650	1750
max. 4200	3000	2100
max. 3600	3350	2450
max. 3000	3700	2800
max. 2700	4050	3150
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2750	1850
max. 4200	3100	2200
max. 3600	3450	2550
max. 3000	3800	2900
max. 2700	4150	3250
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 4800	2800	1900
max. 4200	3150	2250
max. 3600	3500	2600
max. 3000	3850	2950
max. 2700	4200	3300

Note: These tables are to be read in consultation with the registered Project Engineer. Tables are not Project specific.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S310

REV. B

SCALE 250 200 150 100 50

WALL BRACING TABLES - 150mm STUDS

1508PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	-	-
max. 7200	-	-
max. 6000	1950	1050
max. 4800	2350	1450
max. 4200	2750	1850
max. 3600	3150	2250
max. 3000	3550	2650
max. 2700	3950	3050
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	-	-
max. 7200	2250	1350
max. 6000	2600	1700
max. 4800	2950	2050
max. 4200	3300	2400
max. 3600	3650	2750
max. 3000	4000	3100
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	-	-
max. 7200	2150	1250
max. 6000	2550	1650
max. 4800	2950	2050
max. 4200	3350	2450
max. 3600	3750	2850
max. 3000	4150	3250
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	1800	900
max. 7200	2200	1300
max. 6000	2600	1700
max. 4800	3000	2100
max. 4200	3400	2500
max. 3600	3800	2900
max. 3000	4200	3300
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	1900	1000
max. 7200	2300	1400
max. 6000	2700	1800
max. 4800	3100	2200
max. 4200	3500	2600
max. 3600	3900	3000
max. 3000	4300	3400

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	-	-
max. 7200	2200	1300
max. 6000	2500	1600
max. 4800	2800	1900
max. 4200	3100	2200
max. 3600	3400	2500
max. 3000	3700	2800
max. 2700	4000	3100
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2000	1100
max. 7200	2350	1450
max. 6000	2700	1800
max. 4800	3050	2150
max. 4200	3400	2500
max. 3600	3750	2850
max. 3000	4100	3200
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2150	1250
max. 7200	2500	1600
max. 6000	2850	1950
max. 4800	3200	2300
max. 4200	3550	1800
max. 3600	3900	3000
max. 3000	4250	3350
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2250	1350
max. 7200	2600	1700
max. 6000	2950	2050
max. 4800	3300	2400
max. 4200	3650	2750
max. 3600	4000	3100
max. 3000	4350	3450
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2300	1400
max. 7200	2650	1750
max. 6000	2000	2100
max. 4800	3350	2450
max. 4200	3700	2800
max. 3600	4050	3150
max. 3000	4400	3500

15012PS

INTERNAL PRESSURE < 0.6 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	1900	1000
max. 7200	2200	1300
max. 6000	2500	1600
max. 4800	2800	1900
max. 4200	3100	2200
max. 3600	3400	2300
max. 3000	3700	2800
max. 2700	4000	3100
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2050	1150
max. 7200	2400	1500
max. 6000	2750	1850
max. 4800	3100	2200
max. 4200	3450	2550
max. 3600	3800	2900
max. 3000	4150	3250
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	-	-
max. 7200	2300	1400
max. 6000	2700	1800
max. 4800	3100	2200
max. 4200	3500	2600
max. 3600	3900	3000
max. 3000	4300	3400
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	1950	1050
max. 7200	2350	1450
max. 6000	2750	1850
max. 4800	3150	2250
max. 4200	3550	2650
max. 3600	3950	3050
max. 3000	4350	3450
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2050	1150
max. 7200	2450	1550
max. 6000	2850	1950
max. 4800	3250	2350
max. 4200	3650	2750
max. 3600	4050	3150
max. 3000	4450	3550

INTERNAL PRESSURE < 0.4 kPa		
EQ = 5.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2950	2050
max. 7200	3100	2200
max. 6000	3250	2350
max. 4800	3400	2500
max. 4200	3550	2650
max. 3600	3700	2800
max. 3000	3850	2950
max. 2700	4000	3100
EQ = 4.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2150	1250
max. 7200	2500	1600
max. 6000	2850	1950
max. 4800	3200	2300
max. 4200	3550	2650
max. 3600	3900	3000
max. 3000	4250	3350
EQ = 4.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2300	1400
max. 7200	2650	1750
max. 6000	3000	2100
max. 4800	3350	2450
max. 4200	3700	2800
max. 3600	4050	3150
max. 3000	4400	3500
EQ = 3.5% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2400	1500
max. 7200	2750	1850
max. 6000	3100	2200
max. 4800	3450	2550
max. 4200	3800	2900
max. 3600	4150	3250
max. 3000	4500	3600
EQ = 3.0% of Self-Weight		
H (mm)	L1 (mm)	L2 (mm)
max. 8400	2450	1550
max. 7200	2800	1900
max. 6000	3150	2250
max. 4800	3500	2600
max. 4200	3850	2950
max. 3600	4200	3300
max. 3000	4550	3650

Note: These tables are to be read in consultation with the registered Project Engineer. Tables are not Project specific.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

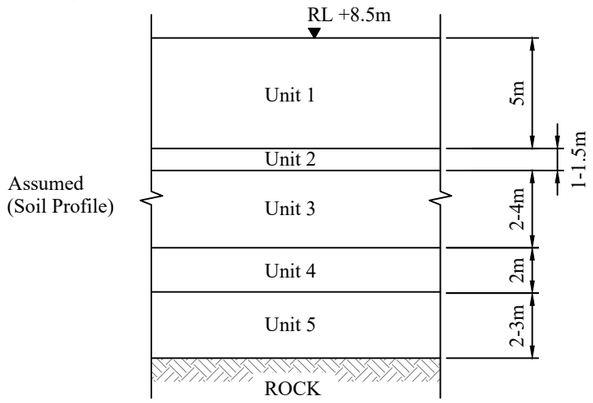
DRAWING NO. S311 | REV. B

SCALE 250 200 150 100 50

EXAMPLE COMPUTATIONS FOR EARTHQUAKE ACCELERATION FOR A NON-STRUCTURAL COMPONENT (ie. PARTITION WALL)

ASSUMPTIONS & IMPORTANT NOTES:

- Assuming soil layering: 5 soil units overlying firm bedrock;
- Height of component concerned: less than 10m above ground level.
- Illustrative for static EQ effect only. For any real practical building application, advice from the relevant permanent structural engineer must be sought.



Note: Ground condition is as given in Geotechnical Report.

EVALUATION OF PERIODS:

$$\text{Layer Period} \simeq \frac{\text{Layer Thickness}}{\text{Overall Depth}} \quad (0.6)$$

0.6 is a benchmarked factor for site sub-soil.

Overall Depth of 14.5m of soil layer is used based on Soil Report on soil site layers.

Layered Site Periods:

Unit 1	-	0.21 sec
Unit 2	-	0.06 sec
Unit 3	-	0.17 sec
Unit 4	-	0.08 sec
Unit 5	-	0.13 sec
		0.65 sec

Site Period ≃ 0.65 sec

Thus, soil site Class D assumed in which the site period > 0.65 sec.

FORCE ON COMPONENT:

Importance level of component is HIGH, Level 3.

As per Code requirements, Annual Probability of Exceedance is 1/250.
Prescribed Annual Probability of Exceedance is 1/100.
There is a 50% difference in the probability factor.
Designed Probability of Exceedance is 1/100.

Probability Factor, Kp = 0.5
Melbourne Location, Hazard factor, Z = 0.08

$\therefore$ KpZ = 0.04

Induced Force, $F_H \simeq \alpha_{floor} [I_c \alpha_c / R_c] W_c \leq 0.5 W_c$

Spectral Shape Factor base on Site Period ($C_h(T)$)

$T_s \simeq 0.65$

Assume at Site D, $C_h(T) = 3.07$

Component mounted on ground (say, 10m)

$\alpha_{floor} = k_P Z C_h(0)$

$Ch(T) = 1.1$

$\therefore \alpha_{floor} = 0.04 (1.1)$
$= 0.044$

I_c = 1.5 (worse case)
α_c = 1.0 (assume flexible mounting system, use 2.5)
R_c = 2.5
W_c = Weight component in kN

Note: Max force should be taken as 0.5 W_c given as 5% of the mass (tonnes).

Thus, $F_H = 0.044 [1.5 (\frac{1}{2.5})] W_c$

$F_H = 0.0264 W_c \quad 0.03W_c < 0.5W_c$

Thus use 3% of weight as Equivalent Horizontal Base Force.

F_H = 3% Wc ⟶ DESIGN FORCE

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S312 | REV. B

SCALE 250 200 150 100 50

CEILING SYSTEM PRODUCTS
& STRUCTURAL PROPERTIES

SCALE 250 200 150 100 50

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

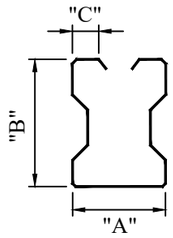
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S400

REV. B

CEILING SYSTEM PRODUCTS

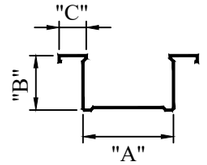
TOP CROSS RAILS (TCR)



DIMENSIONS (mm)
"A" 20
"B" 28
"C" 10

Material thickness "t" = 0.75
Available in 3.6m & 4.8m lengths.

FURRING CHANNEL (FC28)

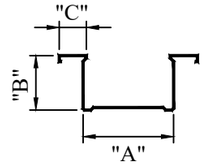


Knurled web to aid screw fixing

DIMENSIONS (mm)
"A" 36
"B" 28
"C" 10

Material thickness "t" = 0.55
Available in 3.6m, 4.8m & 6.0m lengths.

FURRING CHANNEL (FC16)



Knurled web to aid screw fixing

DIMENSIONS (mm)
"A" 36
"B" 16
"C" 10

Material thickness "t" = 0.55
Available in 3.6m, 4.8m & 6.0m lengths.

SCALE 250 200 150 100 50

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

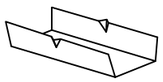
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

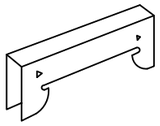
DRAWING NO. S401

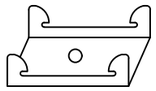
REV. B

MISCELLANEOUS ACCESSORIES

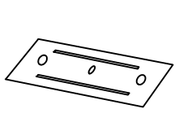
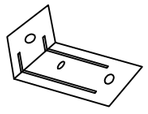
B534  Suspension clips

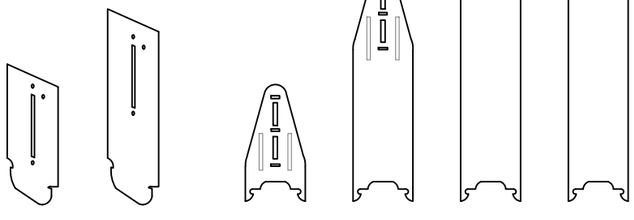
NBJ  Channel Joiners

B39  Locking Key

FWC  Furring channel wall clip

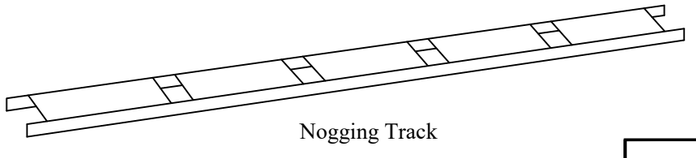
BR5  Suspension rods

 SRH  ARH Rod Hangers



B75 B150 B95 B190 B250 B300

Batten clips Furring channel clips



Nogging Track

CEILING SYSTEM ACCESSORIES

PRODUCT		No.	Standard lengths
Top Hat		35x50	6.0m
		15x50	3.6m / 6.0m
Furring Channel 16mm		FC16	3.6m / 4.8m / 6.0m
Furring Channel 28mm		FC28	3.6m / 4.8m / 6.0m
Plaster Angle	0.6 BMT	45x45	3.0m
	0.8 BMT	43x43	
	1.2 BMT	50x50	
Top Cross Rail		TCR	3.6m / 4.8m
Channel Joiners		NBJ	n/a
Locking Key		B39	n/a
Suspension clips		B534	n/a
Suspension rods (5 dia.)		BR5	4.0m
Straight Rod hanger		SRH	n/a
Angled Rod hanger		ARH	n/a
Batten clip - short		B75	n/a
Batten clip - long		B150	n/a
Furring channel wall clip		FWC	n/a
Furring channel clip		B95	n/a
		B190	n/a
		B250	n/a
		B300	n/a
Furring Channel Track 16		FCT16	3.0m
Furring Channel Track 28		FCT28	3.6m
Nogging Track		NT64	3.0m
		NT76	
		NT92	
		NT150	

BRACKET CAPACITIES

Bracket	Batten supported	Maximum Capacity *	Displacement on maximum loading **
B39	Furring channel & TCR	1.71 kN	8 mm
B534	TCR & suspension rod	2.20 kN	8 mm
B95	Furring channel	0.80 kN	5 mm
B190	Furring channel	1.00 kN	5 mm
B250	Furring channel	1.10 kN	6 mm
B300	Furring channel	1.02 kN	4 mm
B75	Nail up batten (NUB)	0.70 kN	3 mm
B150	Nail up batten (NUB)	0.80 kN	3 mm
SRH	Suspension rod (BR5)	1.20 kN	10 mm
ARH	Suspension rod (BR5)	1.18 kN	15 mm

* Based on testing by Melbourne Testing Services Pty Ltd:
- Test Report MT-18/791, dated 19 September 2018; and
- Test Report 24-0046, dated 17 January 2024.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

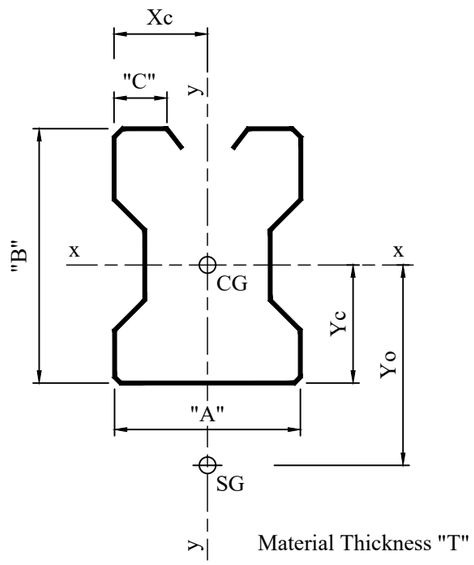
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S402 REV. B

SCALE 250 200 150 100 50

TOP CROSS RAIL STRUCTURAL PROPERTIES

Properties and capacities determined in accordance with AS 1538



PROPERTIES - TOP CROSS RAIL (TCR)

"A" mm	"B" mm	"C" mm	"T" mm	Mass kg/m	Area mm^2	Xc mm	Yc mm	Ixx x10E3 mm^4	Iyy x10E3 mm^4	Zxx mm^3	Zyy mm^3	Rxx mm	Ryy mm	Q	J mm^4	Iw x10E6 mm^4	Y_o mm
20	28	5.2	0.75	0.40	51.6	11.00	11.03	4.51	3.38	322	307	9.30	8.10	1.000	9.11	0.239	19.50
								Moment of Inertia		Section Modulus E		Radius of Gyration		Form factor	Torsion Constant	Warping Constant	Shear Centre

MAXIMUM PERMISSIBLE CEILING WEIGHT (kg/m^2)

Spacing of Top Cross Rail (TCR)	Furring Channel Spacing: 450 or 600 CTS. Spacing of suspension rods along TCR (ie. designated span of TCR)		
	900	1200	1500
900	65.2	24.8	13.3
1200	47.4	18.2	7.7
1500	37.1	14.2	6.5

Notes:
1. Tables based on strength and serviceability of top cross rails and furring channels.
2. Deflection limit Span/360
3. two continuous spans

CEILING WEIGHTS TABLE

Description	Maximum weight kg/m^2
Fibrous plaster, 10mm thick	9
Suspended plaster with 1hr FRL	25
Suspended plaster with 2hr FRL	50
Suspended plaster with No fire rate	15
Plaster thickness - Portland Cement - 10mm thick	23
Plaster thickness - Portland Cement - 13mm thick	28
Plaster thickness - Portland Cement - 16mm thick	30
Plaster thickness - Portland Cement - 32mm thick	46
Plaster thickness - Lime - 10mm thick	19
Plaster thickness - Lime - 13mm thick	23
Plaster thickness - Lime - 16mm thick	25
Plaster thickness - Lime - 32mm thick	38
Plaster thickness - Gypsum - 10mm thick	17
Plaster thickness - Gypsum - 13mm thick	21
Plaster thickness - Gypsum - 16mm thick	22
Plaster thickness - Gypsum - 32mm thick	34

SCALE 250 200 150 100 50

BRYKO Partitioning Systems
BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256
9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S403 REV. B

FURRING CHANNEL STRUCTURAL PROPERTIES

PROPERTIES - 16mm FURRING CHANNEL (FC16)

"A" mm	"B" mm	"C" mm	"T" mm	Mass kg/m	Area mm^2	Xc mm	Yc mm	Ixx x10E3 mm^4	Iyy x10E3 mm^4	Zxx mm^3	Zyy mm^3	Rxx mm	Ryy mm	Q	J mm^4	Iw x10E6 mm^4	Y_o mm
36	16	10	0.55	0.37	40.0	18.00	5.03	1.44	7.70	132	334	5.29	11.83	0.582	3.33	0.619	13.18
								Moment of Inertia		Section Modulus E		Radius of Gyration		Form factor	Torsion Constant	Warping Constant	Shear Centre

MAX. SPAN (FC16) *

Plaster Thickess	Furring Channel spacing	
	450	600
10	1400	1460
13	1360	1290
16	1230	1160
32	950	1000

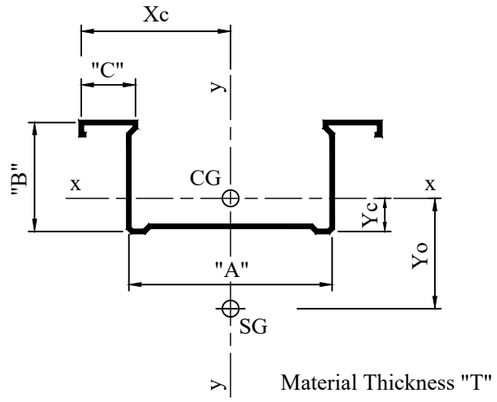
PROPERTIES - 28mm FURRING CHANNEL (FC28)

"A" mm	"B" mm	"C" mm	"T" mm	Mass kg/m	Area mm^2	Xc mm	Yc mm	Ixx x10E3 mm^4	Iyy x10E3 mm^4	Zxx mm^3	Zyy mm^3	Rxx mm	Ryy mm	Q	J mm^4	Iw x10E6 mm^4	Y_o mm
36	28	10	0.55	0.54	66.0	18.00	9.40	6.50	13.67	355	594	10.00	14.39	0.540	7.92	3.47	23.66
								Moment of Inertia		Section Modulus E		Radius of Gyration		Form factor	Torsion Constant	Warping Constant	Shear Centre

MAX. SPAN (FC28) *

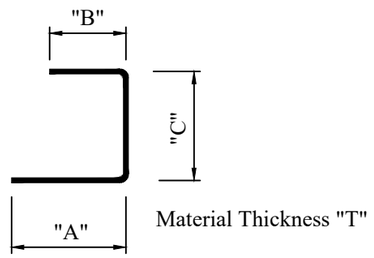
Plaster Thickess	Furring Channel spacing	
	450	600
10	2240	1860
13	1880	1620
16	1720	1470
32	1420	1230

* SPAN = Spacing of top cross rails (TCR)



Notes:
1. Tables based on strength and serviceability of top cross rails and furring channels.
2. Deflection limit Span/360
3. two continuous spans

FURRING CHANNEL TRACK (FCT)



FURRING CHANNEL TRACK

PRODUCT	DIMENSIONS				
No.	"A"	"B"	"C"	"T"	Standard length
FCT16	28	19	17	0.5	3.0m
FCT28	35	27	28	0.55	3.6m

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

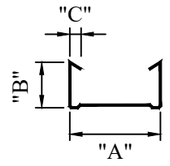
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S404 | REV. B

SCALE

DIRECT FIX CEILING PROPERTIES (DOMESTIC APPLICATIONS)

NAIL UP BATTEN (NUB)



To be fixed with either screws or nail up batten clips. Nail fixing of batten not recommended.

DIMENSIONS				Maximum allowable spans		
"A"	"B"	"C"	BMT	SPACING	SPAN	Max. plaster thickness
35	16	5	0.5mm	450	1200	10 & 13
				600	1100	13

Standard Lengths: 4.8m / 6.0m

The above are for 2 or more continuous spans. For thicker plaster refer to manufacturer.

PROPERTIES

Area A_g mm^2	I_x mm^4	I_y mm^4	Z_x mm^3	Z_y mm^3	r_x mm	r_y mm	J mm^4	I_w mm^4	F_y mPa
35.756	1.00E+03	8.00E+03	123	419	6.3	14.5	7529	0	300

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S405

REV. B

SCALE 50 100 150 200 250

CEILING SYSTEM DETAILS AND TABLES
(NON-SEISMIC)

SCALE 250 200 150 100 50

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

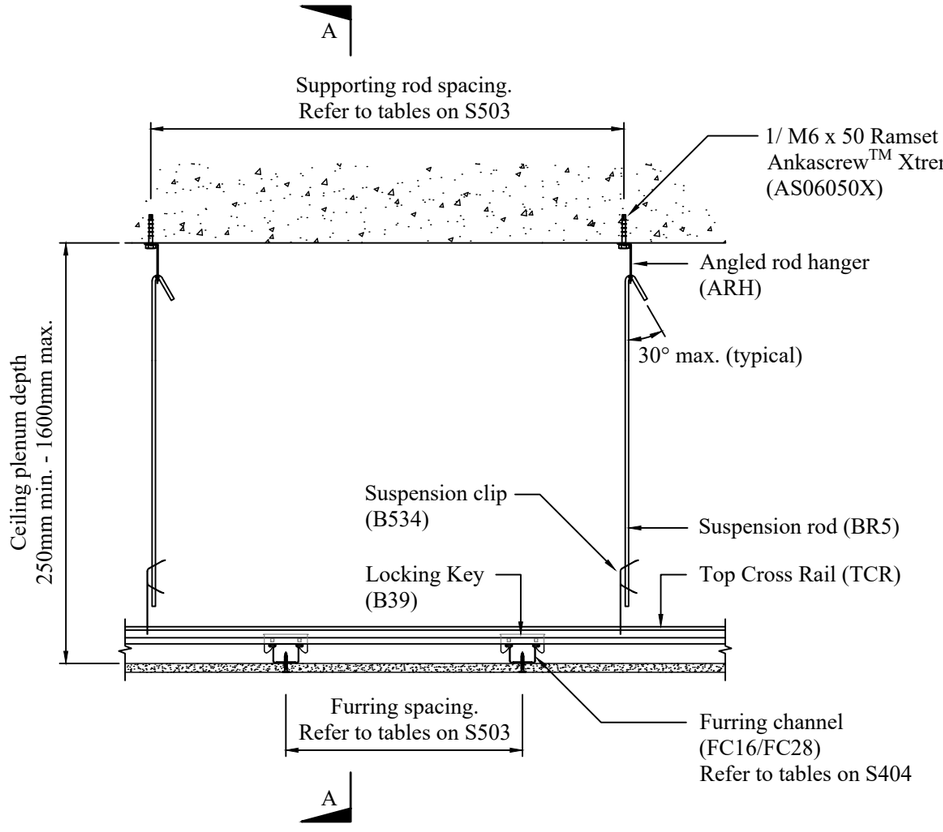
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

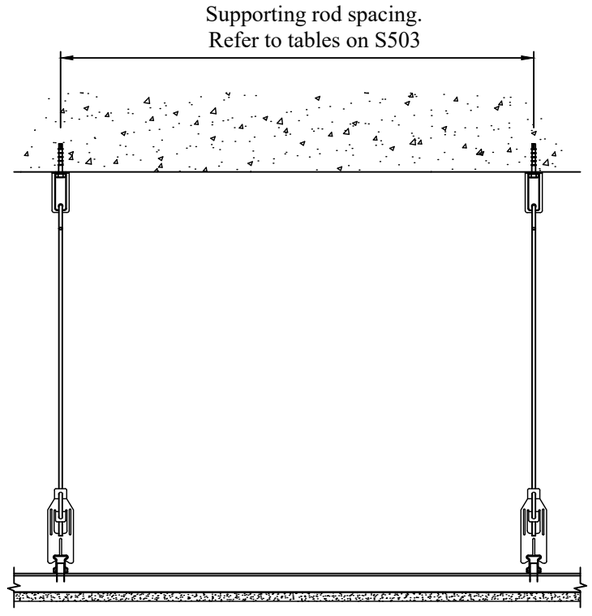
DRAWING NO. S500

REV. B

CEILING SYSTEM DIAGRAM - TYPE 1 (Non-seismic)

TYPE 1 APPLICATION - SUSPENDED FROM CONCRETE SOFFIT





SECTION A-A

B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024
NO.	AMENDMENT	DRAWN	DATE

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

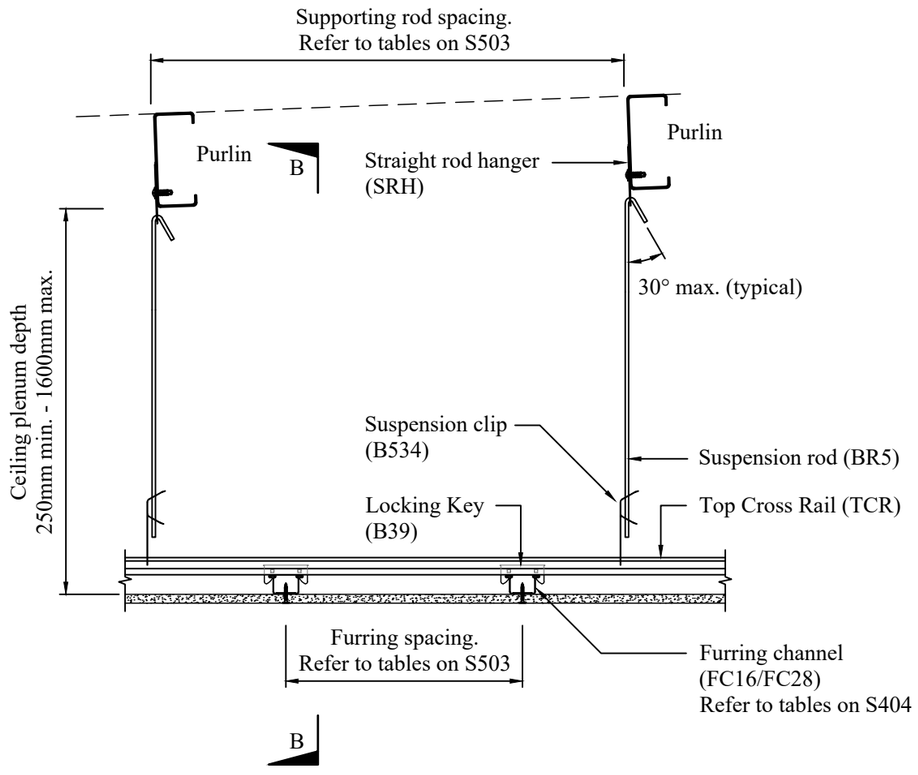
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

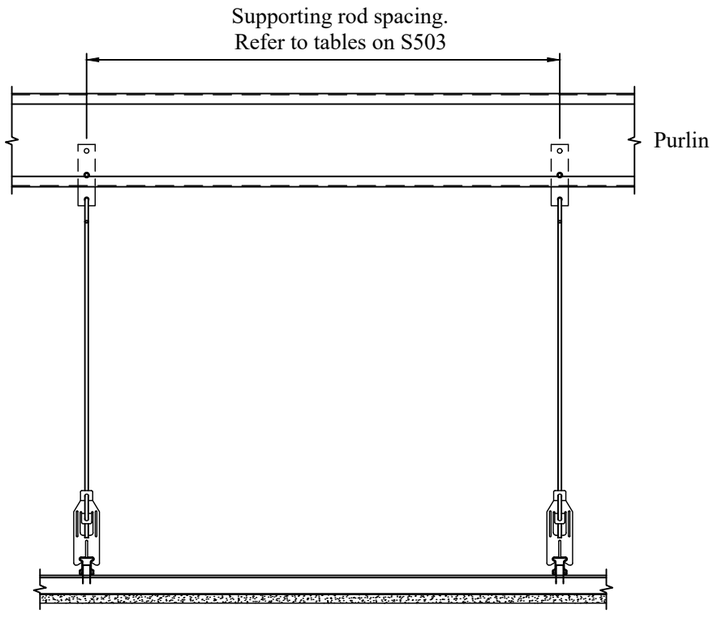
DRAWING NO. S501 | REV. B

SCALE 250 200 150 100 50

CEILING SYSTEM DIAGRAM - TYPE 2 (Non-seismic)

TYPE 2 APPLICATION - SUSPENDED FROM STEEL STRUCTURE





SECTION B-B

B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024
NO.	AMENDMENT	DRAWN	DATE

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S502 | REV. B

SCALE 250 200 150 100 50

CEILING SUPPORTING ROD SPACING TABLES

MAXIMUM SUPPORTING ROD SPACING FC28 FURRING CHANNEL				
Maximum weight	Furring Channel Spacings			
	900mm	1200 mm	1500 mm	1800 mm
0.20 kPa	2160	1620	1300	1080
0.25 kPa	2065	1550	1240	1030
0.30 kPa	1970	1480	1200	990
0.35 kPa	1875	1410	1120	940
0.40 kPa	1780	1340	1050	890
0.45 kPa	1685	1265	1000	840
0.50 kPa	1590	1190	950	800
0.55 kPa	1495	1120	900	750
0.60 kPa	1400	1050	840	700

MAXIMUM SUPPORTING ROD SPACING FC16 FURRING CHANNEL				
Maximum weight	Furring Channel Spacings			
	900mm	1200 mm	1500 mm	1800 mm
0.20 kPa	1660	1120	800	580
0.25 kPa	1570	1050	740	530
0.30 kPa	1470	980	680	490
0.35 kPa	1375	900	630	440
0.40 kPa	1280	840	570	390
0.45 kPa	1185	760	500	340
0.50 kPa	1090	690	450	300
0.55 kPa	995	620	390	250
0.60 kPa	900	550	340	200

Note: These tables are for recommendation only, not Project specific. Always consult with the registered Project Engineer before installing partition system.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S503

REV. B

SCALE 250 200 150 100 50

CEILING SYSTEM DETAILS AND TABLES
(SEISMIC DESIGN)

SCALE 50 100 150 200 250

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

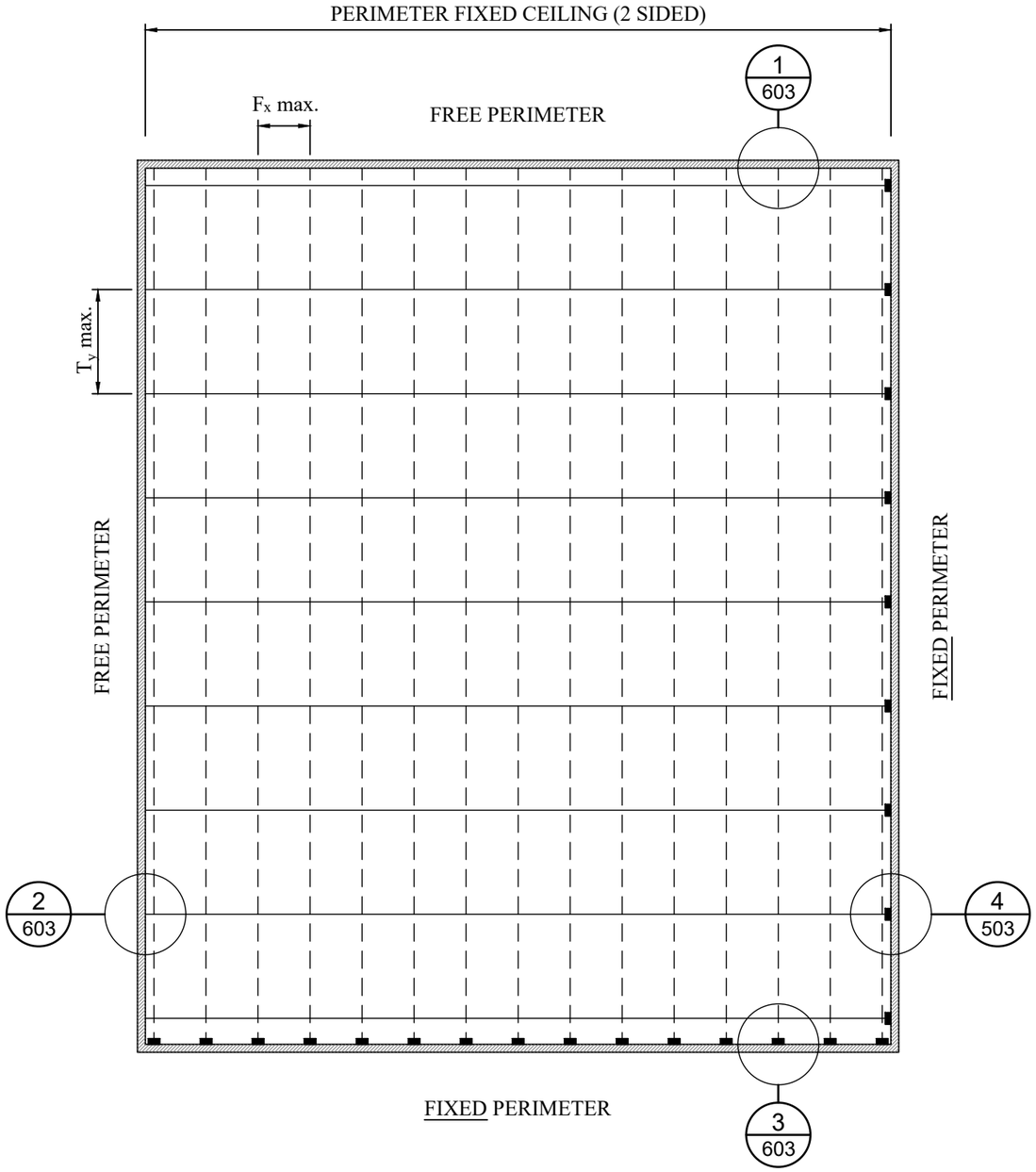
BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S600

REV. B

CEILING BRACING LAYOUT (Seismic design)



CEILING SCHEDULE

Ceiling type	Maximum weight	Maximum plenum depth	Furring Channel (FC28)		Top Cross Rail (TCR)	
			Spacing (F_x max.)	Support dimension ("X" max.)	Spacing (T_y max.)	Support dimension ("Y" max.)
13mm Plasterboard	up to 8.5 kg/m^2	1600	600	4400	1100	6000
13mm MR Plasterboard	up to 9.8 kg/m^2	1600	600	4400	1000	5400
13mm Perforated Plasterboard	up to 10.5 kg/m^2	1600	600	4400	1000	5400
Perforated Metal Mesh Panel	up to 2.0 kg/m^2	1600	600	6600	1100	7800
13mm High Density Plasterboard + 13mm Fiberock Plasterboard	up to 22.5 kg/m^2	1600	600	3000	1000	4200
16mm Plasterboard	up to 13.0 kg/m^2	1600	600	4000	1000	4800
2 layers 16mm Plasterboard	up to 26.0 kg/m^2	1600	600	2500	800	3500

Note: "Support Dimensions X & Y" refer to Dropper Stud bracing as shown on S602.
These dimensions do not apply where ceiling is perimeter fixed all sides.

Refer to S503 for Supporting Rod spacing tables (supporting TCR).

LEGEND:

- BOUNDARY WALL
- TOP CROSS RAIL (TCR) DIRECTION
- FURRING CHANNEL DIRECTION
- TCR / CHANNEL FIXED TO WALL AT END

Note: Provide control joints in plaster finish at 12m MAX. CTS. by builder / supplier.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

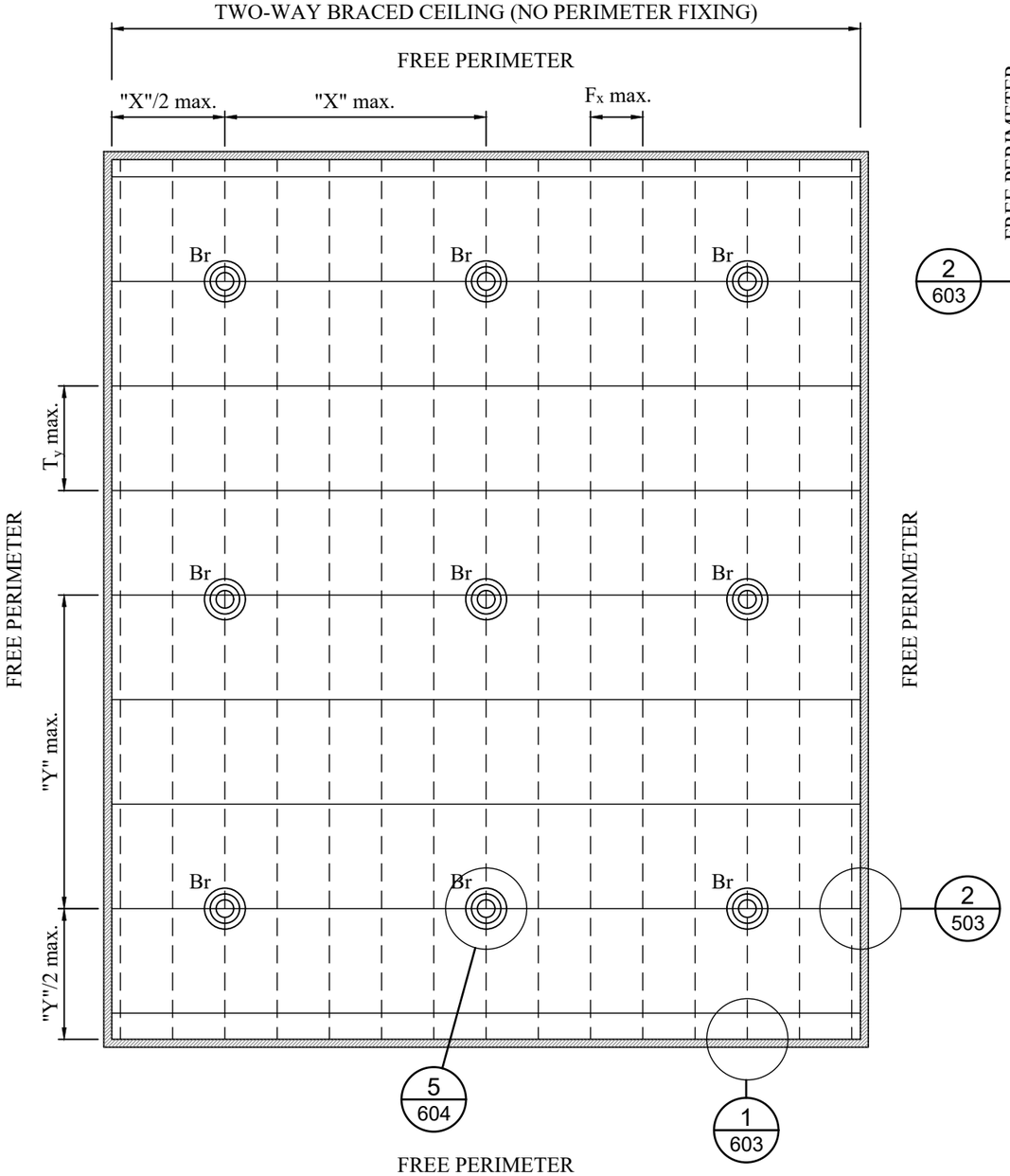
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S601 | REV. B

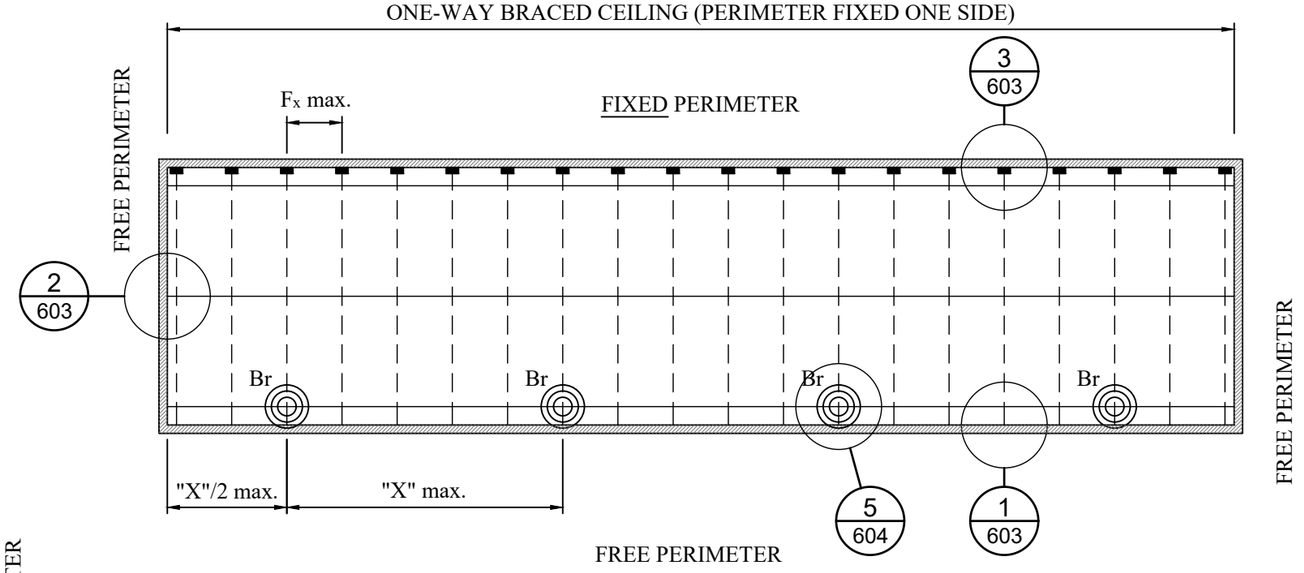
SCALE 250 200 150 100 50

CEILING BRACING LAYOUT (Seismic design)

TWO-WAY BRACED CEILING (NO PERIMETER FIXING)



ONE-WAY BRACED CEILING (PERIMETER FIXED ONE SIDE)



LEGEND:

- BOUNDARY WALL
- TOP CROSS RAIL (TCR) DIRECTION
- FURRING CHANNEL DIRECTION
- Br — DROPPER STUD BRACING - BOTH DIRECTIONS
- TCR / CHANNEL FIXED TO WALL AT END

Note: Refer to S503 for Supporting Rod spacing tables (supporting TCR).

Note: Provide control joints in plaster finish at 12m MAX. CTS. by builder / supplier.

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

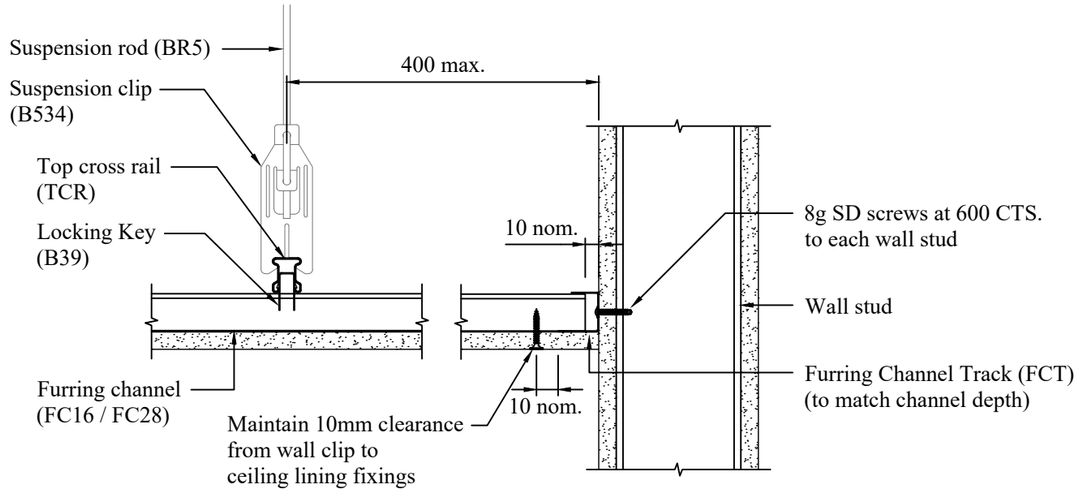
BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S602 — REV. B

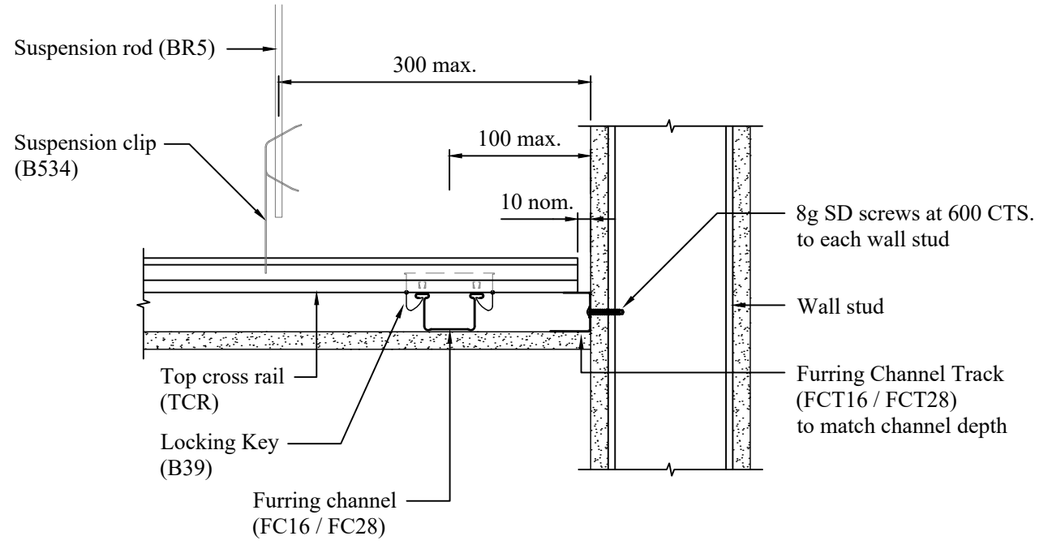
SCALE 250 200 150 100 50

CEILING TO WALL DETAILS



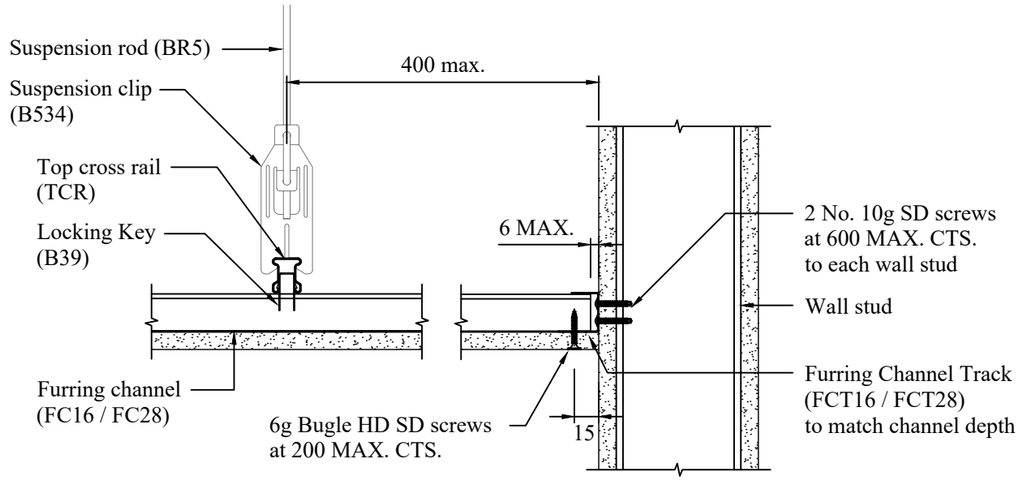
FURRING CHANNEL PERIMETER WALL DETAIL - FREE

1 / -



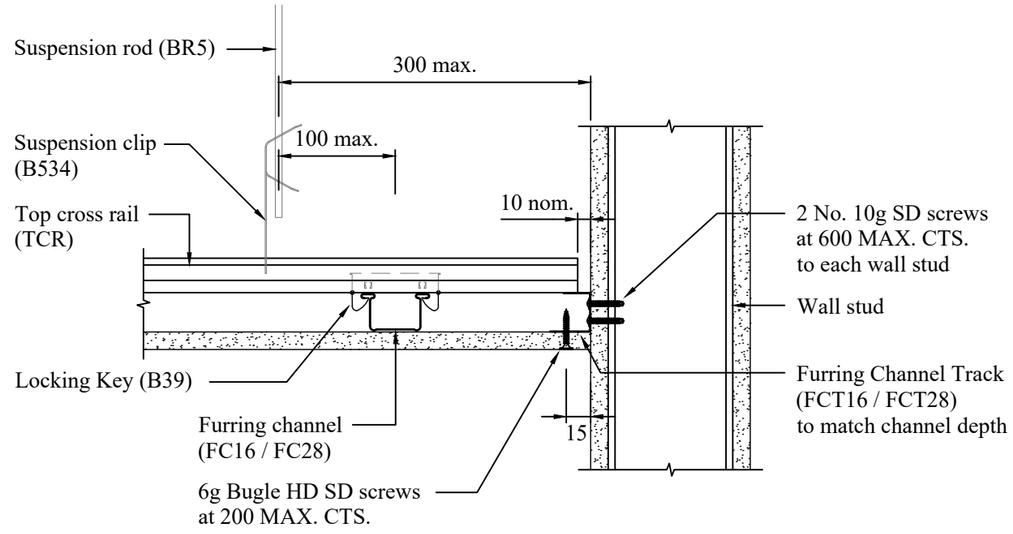
TOP CROSS RAIL PERIMETER WALL DETAIL - FREE

2 / -



FURRING CHANNEL PERIMETER WALL DETAIL - FIXED

3 / -



TOP CROSS RAIL PERIMETER WALL DETAIL - FIXED

4 / -

BRYKO Partitioning Systems

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S603

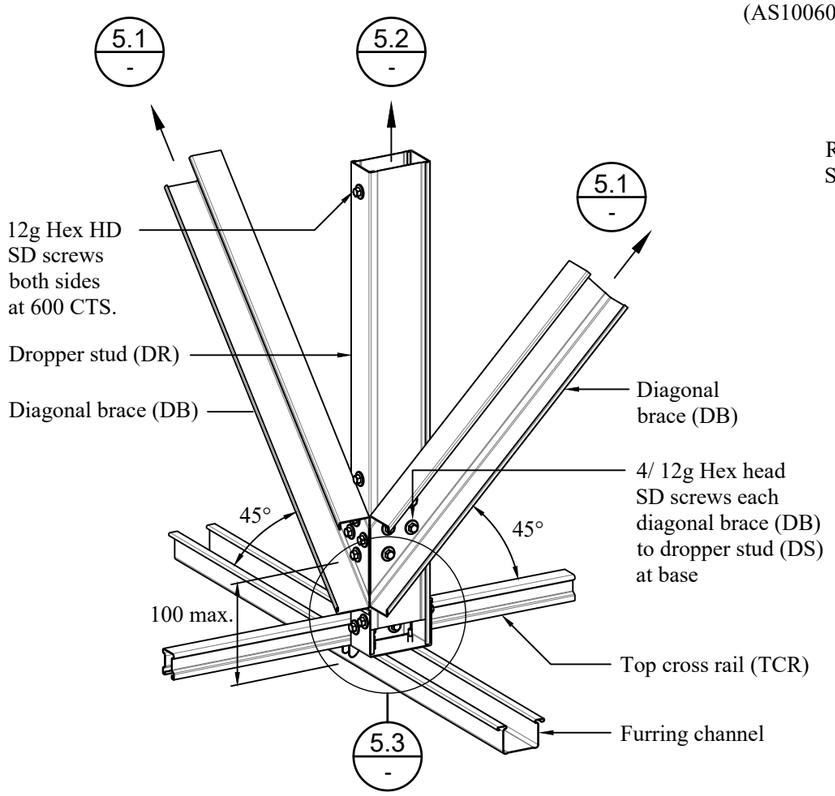
REV. B

SCALE 250 200 150 100 50

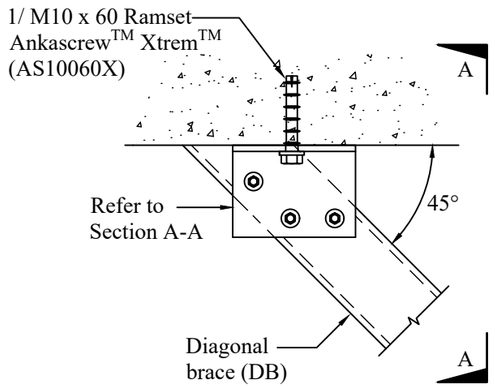
DROPPER STUD AND BRACING - BOTH DIRECTIONS

DROPPER/BRACE SCHEDULE

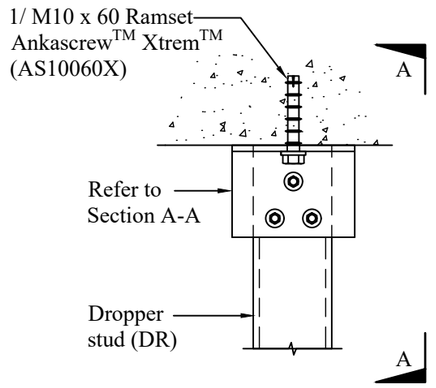
Max. plenum depth	DROPPER STUD (DR)				DIAGONAL BRACE (DB)			
	Size	BMT	Description	Product no.	Size	BMT	Description	Product no.
up to 500	64	0.6	2 studs - boxed	6406PS	64	0.6	single stud	6406PS
500 - 1600	64	0.8	2 studs - boxed	6408PS	64	0.8	single stud	6408PS



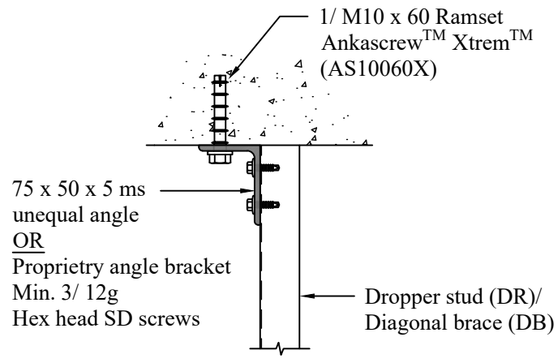
DROPPER STUD & DIAGONAL BRACE DIAGRAM 5 -



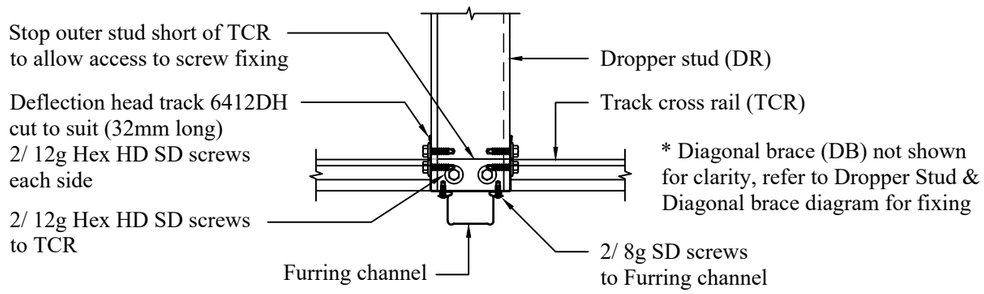
DIAGONAL BRACE HEAD FIXING DETAIL 5.1 -



DROPPER STUD HEAD FIXING DETAIL 5.2 -



SECTION A-A



DROPPER STUD BASE FIXING DETAIL 5.3 -

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S604 REV. B

SCALE 250 200 150 100 50

DIRECT FIX TOP HAT WALL BATTEN
DETAILS AND TABLES

SCALE 50 100 150 200 250

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

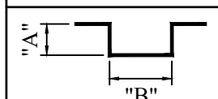
DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S700

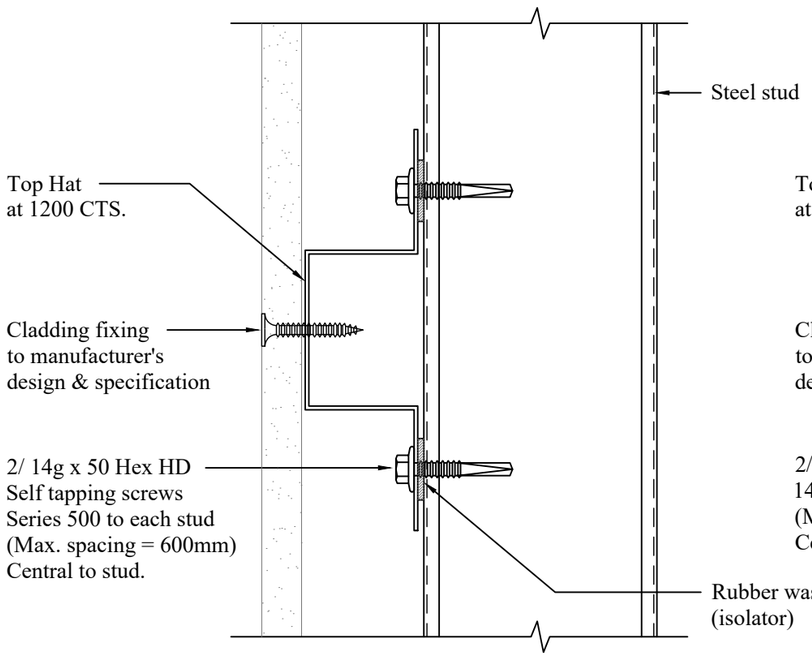
REV. B

DIRECT FIX TOP HAT BATTENS

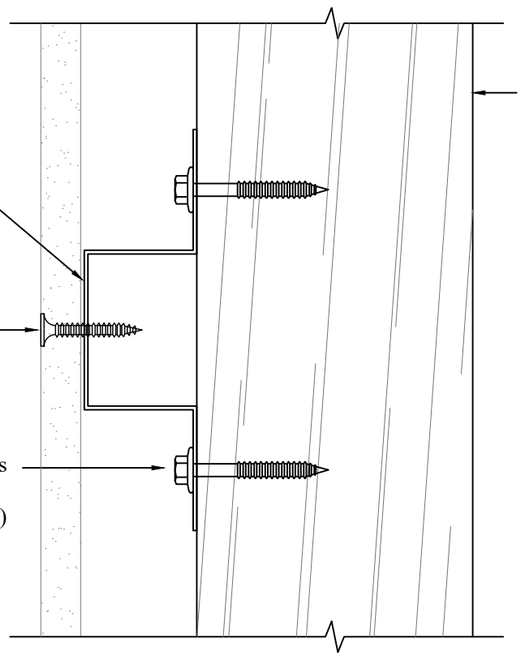
WALL BATTENS



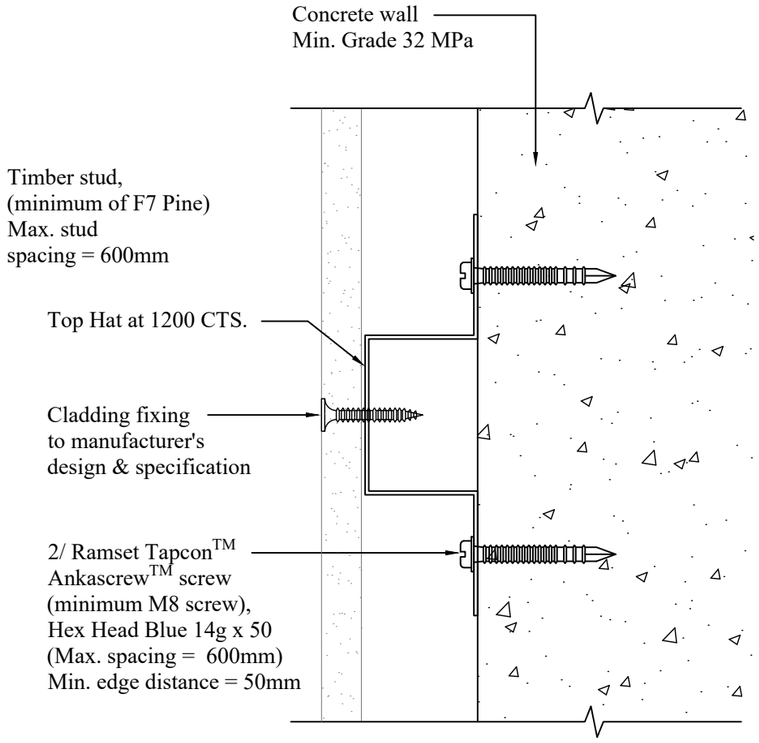
PRODUCT	No.	"A"	"B"	BMT	Standard lengths
Top Hat	35x50	35.0	50.8	1.2	6.0m
	15x50	15.5	50.8	1.2	3.6m / 6.0m



STEEL STUD APPLICATION
MAX. CAPACITY = 90kg/m²



TIMBER STUD APPLICATION
MAX. CAPACITY = 120kg/m²



CONCRETE WALL APPLICATION
MAX. CAPACITY = 85kg/m²

BRYKO PTY.LTD.
MANUFACTURERS OF
METAL BUILDING PRODUCTS
ACN 007 251 256

9 PATRICK STREET, CAMPBELLFIELD
PH. (03) 9357 0843
FAX. (03) 9357 9204

NO.	AMENDMENT	DRAWN	DATE
B	ISSUE 1	L.C.	12.11.2024
A	SUPERSEDED	L.C.	22.03.2024

BRYKO PRODUCT SPECIFICATION AND INSTALLATION GUIDE

DRAWN	CHECKED	DATE
L.C.	V.L.	12.11.2024

DRAWING NO. S701 | REV. B

SCALE 250 200 150 100 50