STEEL ROLLFORMED PRODUCTS LIMITED

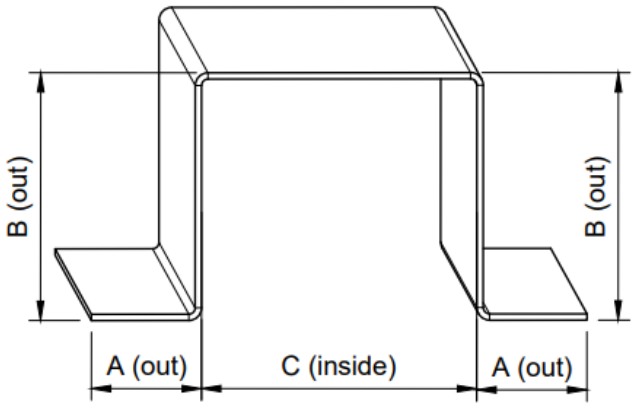
MAKING WALLS & CEILINGS EASY EST. 2007

SRP Custom Top-Hat & Cleats Size Options & Installation

At Steel Rollformed Products Ltd we manufacture and supply quite a range of Galv. steel Top-Hat profiles, with varying width/ depth/ face dimensions.
SRP Top-Hats *cleats* are designed to enable fixing to structural concrete or concrete/ masonry substrates, and to Steel stud framing, to allow attachment of the Top-Hat.

The SRP Top Hat cleat system allows for some adjustment, where substrates are uneven, and is used to level-out walls prior to lining installation.

For installation, the Cleat is fixed to the concrete/ substrate with suitable masonry fixings (through the pre-drilled holes), and the Top-Hat is then placed over the cleat, Note: adjusted to level, and fixed securely in-place with suitable fixings - through the Top-Hat sidewalls into the Cleat 'Legs'.



		Max (mm)	Min (mm)
A	Overall Flange	150	12
B	Overall Depth	150	12
C	Inside Width	300	40
L	Total length	3000	3000

Note: width must be larger than depth

Common sizes:

Code:	A	B	C	Thickness
TH225	20	25	50	0.75/ 1.15
TH235	20	35	50	0.75/ 1.15
TH245	20	45	50	0.75/ 1.15
TH255	20	50	50	0.75/ 1.15
TH227	20	25	70	0.75/ 1.15
TH237	20	35	70	0.75/ 1.15
TH257	20	50	70	0.75/ 1.15

Note: Custom sizes available upon request

SRP Top-Hat Cleat sizes made to fit all Top-Hat common sizes above, within Top-Hat profile internal dimension.

Technical Requirements of the NZBC
B 1.3.3 (a) – Self Weight
B1.3.3 (f) – Earthquake
B 1.3.3 (h) – Wind
B 2.3.1 - Durability 50 years
G 6.3.1 – The sound transmission class of walls, floors
SRP Products are manufactured from Z275 Galvanised, G250 Steel - which is non-combustible.

Evidence - Methodology Summary of NZBC Compliance

1. ASNZ4600 (Steel chemical composition, gauge grade tolerance, galvanised coating, testing statistics, yield point etc.

2. NZS4129 (seismic)

3. NZS3404 (fabrication)

4. AS1397 (sheet and strip)

5. AS1538 (cold formed structures)

6. ASZNZ1170 (steel structures)

7. AS/NZS2785 (Suspended Ceilings)

Compliance Pathways
B1/ VM1
An Engineered design is required - this needs to be done by a suitably qualified Engineer, who can also provide a PS-1.

B2 Durability
SRP uses GALVSTEEL® manufactured by New Zealand Steel. The continuous hot-dip galvanized Zinc coating conforms to the industry standard required for this application; Z275 (275 g/m2 total). New Zealand Steel made GALVSTEEL® for framing is backed by a 50-year Durability Statement to demonstrate compliance with NZBC Clause B2-Durability, when used and maintained as referred to in the current New Zealand Steel's Durability Statement.

G6 Airborne
G6/ AS1

Criteria – Design Guidelines

Please contact Steel Rollformed Products Ltd - for Design Assistance, or visit www.srpltd.co.nz

An Engineered design is often required - this needs to be done by a suitably qualified Engineer, who can also provide a PS-1.

Please refer SRP Wall Systems/ Ceiling Systems Handbook for installation requirements or visit www.srpltd.co.nz

Installation Requirements

Please refer to SRP Wall Systems or SRP Ceiling Systems Handbooks (pdf).

For SRP Wall & Ceiling System Installation instructions/ downloadable CAD details refer: www.srpltd.co.nz

Maintenance

No maintenance required - SRP Galv. Steel products/ systems are typically concealed (within walls/ ceilings), once installed.

Scope of use
This varies between SRP Products/ systems… please refer to individual SRP product installation instructions via SRP website.