



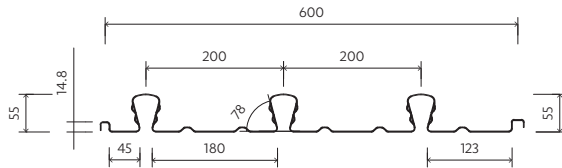
ComFlor

COMPOSITE FLOOR PROFILES

PRODUCT GUIDE

ComFlor SR

UN-PROPPED SPANS 2.4 TO 3.8M*

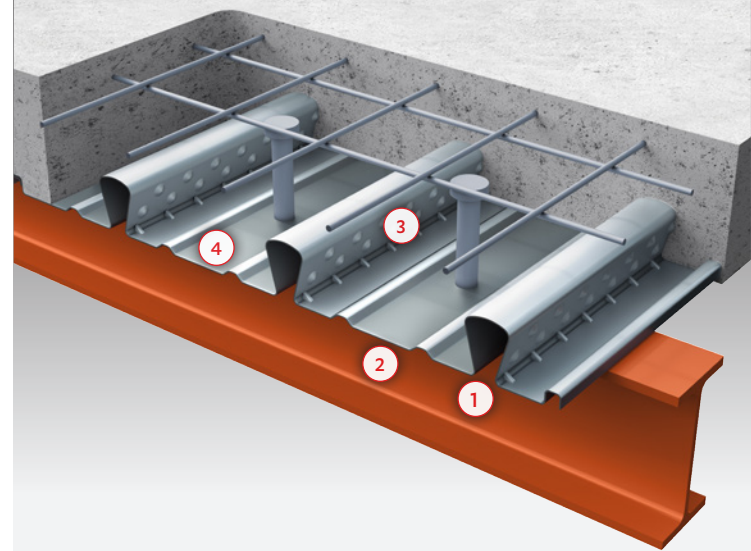


THE COMFLOR SR PROFILE OFFERS

- A flat soffit
- Un-propped double spans of 2.4m to 3.8m
- Thinner slabs due to the profile height being 55mm
- A solid concrete slab adds mass for enhanced vibration and acoustic performance
- Minimised slab depth to achieve acoustic and fire performance
- High point load capacity
- Exceptional shear stud capacities in composite beam design
- Simplified, fast installation due to the 600mm sheet width and the availability of closed ends on the profile
- Seamless integration with ComFlor 60 and ComFlor 80 due to the lap configuration
- Installed pricing will be similar to ComFlor 80

Can be an option as form-work in Post Tensioned slabs.

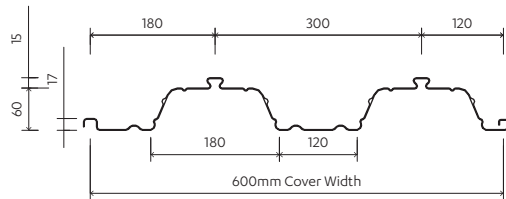
*Spans not to be used for design. Full design can be carried out using the ComFlor software available free on request, or download at www.comflor.nz



- 1 Re-entrant profile for efficiency and spanning capability
- 2 Virtually flat soffit allows thinner slabs to meet fire and acoustic requirements
- 3 Circular embossments for strong composite action between concrete and steel
- 4 Bottom stiffeners pushed apart allowing studs to achieve full capacity
- 5 Spans to 3.8m double span – un-propped
Spans over 6.5m – propped

ComFlor 60

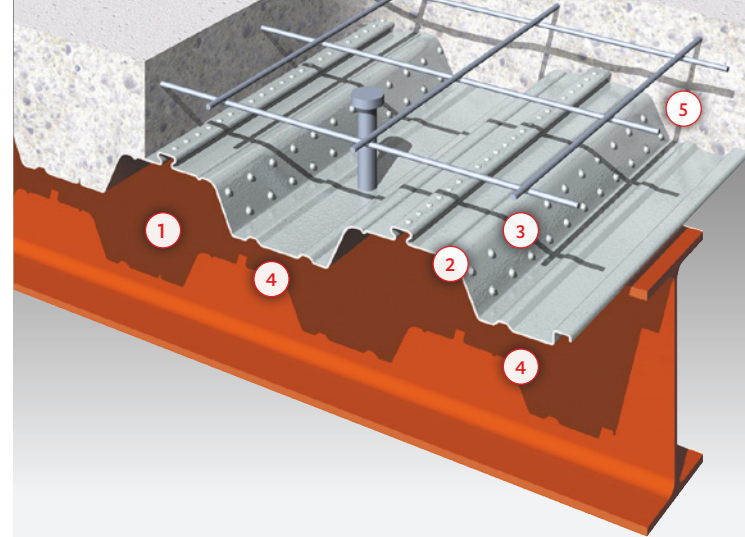
UN-PROPPED SPANS 3.0 TO 4.0M*



THE COMFLOR 60 PROFILE OFFERS

- Cost effective trapezoidal profile
- Un-propped double spans of 3.0m to 4.0m
- Thinner, lighter slabs due to the profile height being 75mm
- Reduced concrete volumes and dead loads
- Proven seismic performance
- Simplified, fast installation due to the 600mm sheet width
- Seamless integration with ComFlor 80 and ComFlor SR due to the lap configuration
- Temporary works stability
- Proven construction efficiencies

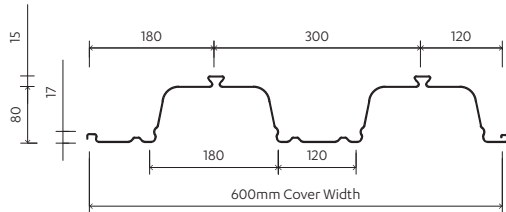
*Spans not to be used for design. Full design can be carried out using the ComFlor software available free on request, or download at www.comflor.nz



- 1 Trapezoidal profile for efficiency and spanning capability
- 2 Large curved corners for longer spans
- 3 Circular embossments for strong composite action between concrete and steel
- 4 Bottom stiffeners pushed apart allowing studs to achieve full capacity
- 5 Spans over 6.5 metres – propped

ComFlor 80

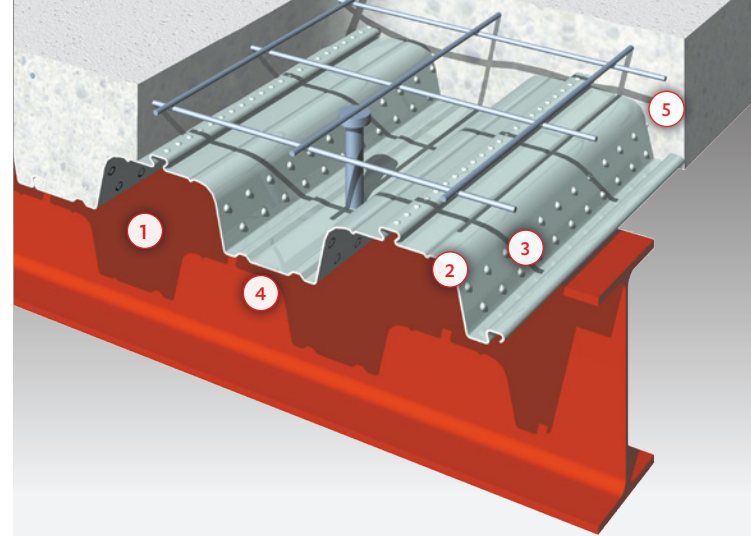
UN-PROPPED SPANS 3.3 TO 5.0M*



THE COMFLOR 80 PROFILE OFFERS

- Cost effective trapezoidal profile
- Un-propped double spans of 3.3m to 5.0m
- Thinner, lighter slabs due to the profile height being 95mm
- Reduced concrete volumes and dead loads
- Proven seismic performance
- Simplified, fast installation due to the 600mm sheet width
- Seamless integration with ComFlor 60 and ComFlor SR due to the lap configuration
- Temporary works stability
- Proven construction efficiencies

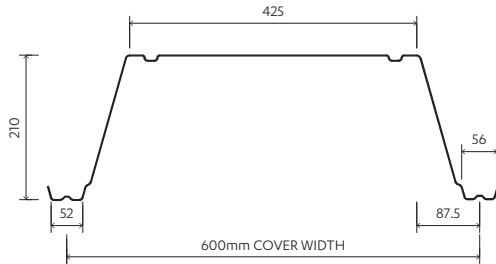
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- 1 Trapezoidal profile for efficiency and spanning capability
- 2 Large curved corners for longer spans
- 3 Circular embossments for strong composite action between concrete and steel
- 4 Bottom stiffeners pushed apart allowing studs to achieve full capacity
- 5 Spans over 6.5 metres – propped

ComFlor 210

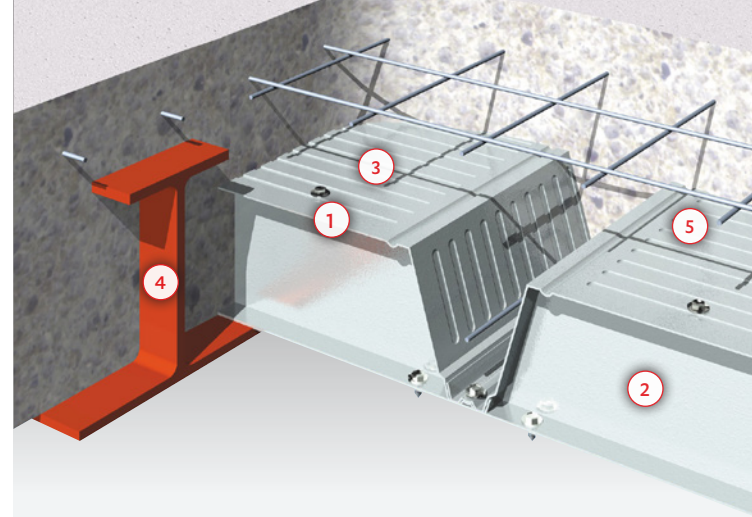
PROPPED SPANS TO 8.5M*



THE COMFLOR 210 PROFILE OFFERS

- Cost effective long span solution
- Propped single spans to 8.5m
- Structural depth to achieve longer spans
- Lightweight slabs due to the profile height being 210mm
- Reduced concrete volumes and dead loads
- Suited to composite beams, load bearing masonry and asymmetric beams
- Simplified, fast installation due to the 600mm sheet width
- Temporary works stability
- Proven construction efficiencies

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- 1 Trapezoidal profile minimises overall concrete use while giving the structural depth to achieve longer spans
- 2 Services can be incorporated within floor thickness
- 3 Side and top embossments aid composite action between concrete and steel
- 4 Encastre beam design achieve composite action and enhances unprotected fire performance
- 5 Spans over 8.5 metres

RESOTEC CONSTRAINED LAYER DAMPING

Resotec is a cost effective means of improving dynamic performance by increasing damping thereby limiting footfall floor vibration in steel framed buildings.

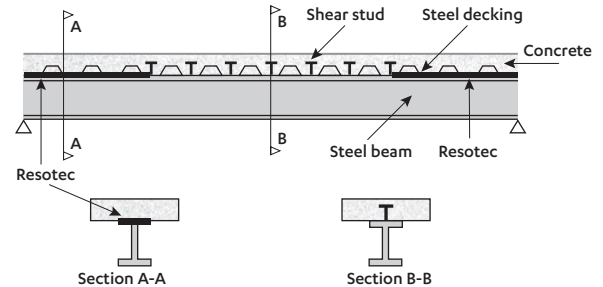
Resotec is a thin layer of high damping visco elastic material sandwiched between two thin steel plates with the overall thickness of 3mm.

Resotec is placed on top of the top flange of a steel beam, under the slab, positioned at $\frac{1}{4}$ span of the beam at each end. The studs are fixed in the central zone of the beam.

The concrete slab is cast normally. The steel beam can be designed as composite with the floor slab over $\frac{1}{2}$ span centred at mid span.

WITH RESOTEC THERE IS:

- No increase in beam weight, no increase in slab mass and no increase in floor zone.
- The damping effect is increased by 1% to 3%
- To achieve this result the design engineer needs to consult at the concept stage of the project.
- Foot-fall induced floor response analysis using Resotec is undertaken by the design engineer using Oasys Compos design software.





M10 WEDGE NUT ASSEMBLY

A versatile and cost effective solution for service installs – designed for ComFlor 60, 80 and SR profiles.

APPLICATION

For the installation of service hangers in ComFlor® 60 ComFlor® 80, and ComFlor® SR profiles.

ADVANTAGES

- Efficient Installation
- Use of the M10 Wedge Nut eliminates the need for any drilling, reducing installation time.
- Easy on-site adjustment
- Allowing the contractor to retrofit services, without the requirement for further penetrations.

TESTING

- Tested by an independently approved laboratory

TECHNICAL DATA

- 2.8KN Working (Gravity) load
- Material: 1214/1215 Bright Mild Steel
- Finish: Rumble Finish & Zinc Plated



Contact **David Lennox** Product Development Specialist, Reticulation & Support Systems **P** 03 343 3701 **M** 027 703 4426



THE SEISMIC BRACE SOLUTION

Steel & Tube is a provider of steel and stainless steel solutions, offering a full range of fastening systems, roofing profiles, reinforcing services, ComFlor decking, structural steel, reticulation and associated seismic support products, including Zip Clip and Sikla.

Zip Clip is a simple and engineered Seismic Wire Bracing System for Building Service installations in New Zealand. Zip Clip is widely used for suspension solutions in Electrical, Mechanical and HVAC applications. Zip Clip is tested and approved to NZS 4219.

SYSTEM DIFFERENTIATION

Zip-Clip seismic brace systems are colour coded to allow easy field identification. Each colour represents a different load bearing capacity.

 **R System**
RED

 **B System**
BLUE

 **GY System**
GREEN YELLOW



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**A HISTORY OF
EXCELLENCE.
COMFLOR HAS
SUPPLIED PRODUCT
INTO SOME OF
NEW ZEALAND'S
LEADING PROJECTS,
AND WAS A KEY
SUPPLIER IN THE
CHRISTCHURCH
REBUILD.**

DELOITTE CENTRE



EY AND AURECON



LICHFIELD CAR PARK



PWC



ANZ CENTRE



BURWOOD HOSPITAL



BRITOMART



**MANUFACTURED
IN AUCKLAND,
NEW ZEALAND.**





ComFlor

Sales Enquiries (CFDL)

Phone: 0508 332 546

Email: comflorsales@steelandtube.co.nz

Technical Enquiries

Phone: 0800 266 356

Email: comflortechnical@steelandtube.co.nz

comflor.co.nz

Reticulation and Support Systems

Please contact Distribution Projects Team:

Email: DistributionProjectTeam@steelandtube.co.nz

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