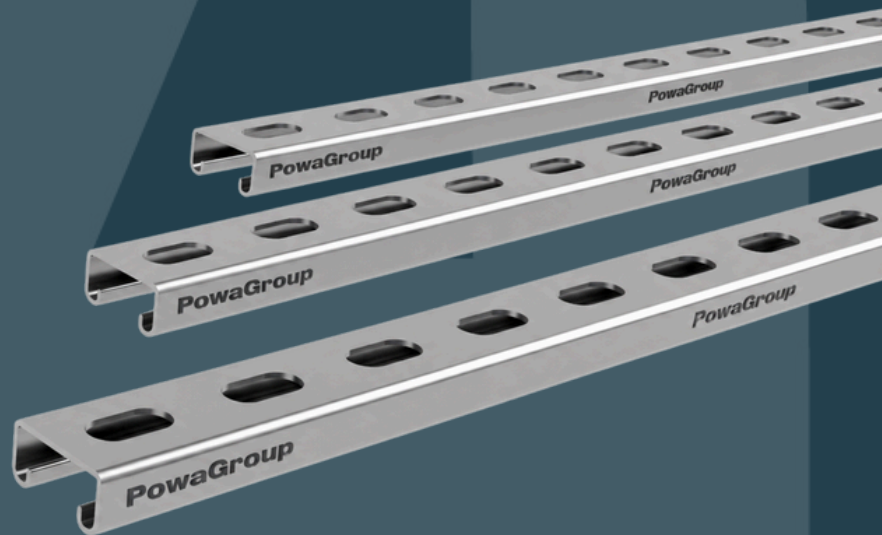


POWA Group

Technical Data Sheet

POWAKOTE[®] STRUT



Technical Data Sheet

POWAKOTE® STRUT



Powakote®

Powakote® is a next-generation zinc-magnesium-aluminum alloy coating applied through hot-dip galvanising. It provides advanced corrosion protection and a unique self-healing property at cut edges and scratches.

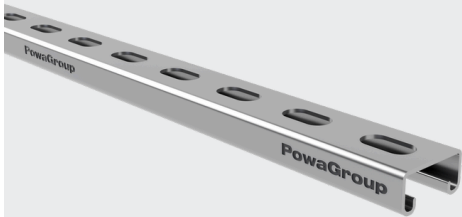
CONVENTIONAL GALVANISING

Rust appears early at cut edges and scratches.

POWAKOTE® (ZM COATING)

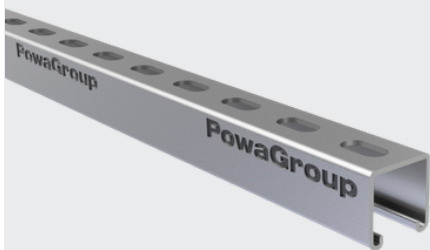
Self-healing oxide layer prevents rust spread.

Powakote® Strut Slotted Heavy



41mm x 21mm

- Length: 6 metres
- Thickness: 2.5mm
- Profile: 41 x 21mm



41mm x 41mm

- Length: 6 metres
- Thickness: 2.5mm
- Profile: 41 x 41mm

Technical Data Sheet

POWAKOTE® STRUT



Key Properties



Up to 7× higher corrosion resistance compared to conventional zinc coatings.



Self-healing oxide layer extends protection to cut edges, welds, and scratches.



Superior barrier protection: stable oxide film prevents corrosion creep.



Higher surface hardness reduces abrasion and tool wear.



Excellent formability, weldability, and paint adhesion.

Environmental & Sustainability Benefits



- Significantly reduced zinc runoff into soil and water.
- Lower CO₂ footprint than stainless steel and aluminium alternatives.
- 100% recyclable and REACH compliant (free from harmful substances).

Technical Specifications for Powakote®

Parameter	Powakote® (ZM Coating)
Thickness Range	0.4 – 3.2 mm
Coating Weights	70 – 450 g/m ² (5–25 µm per side)
Steel Grades	Structural, Forming, High-Strength
Surface Treatment	Oil, Chrome-free passivation, Easyfilm®
Standards	EN 10346, DIN 55634, SEW 022

Technical Data Sheet

POWAKOTE® STRUT



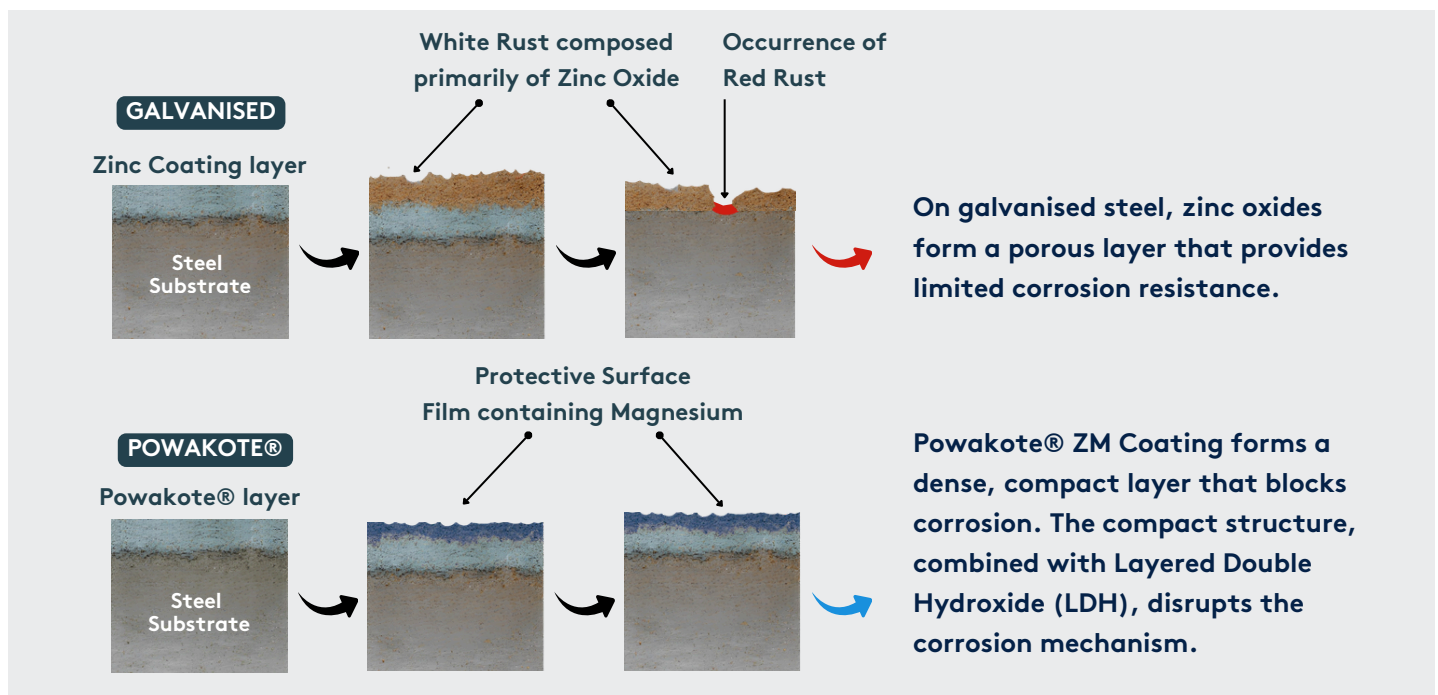
Powakote® Coating Applications



- Solar support structures – durability in soil and outdoor exposure.
- Strut and framing systems – superior corrosion resistance.
- Plumbing tubes and welded products – protection at weld seams.
- Outdoor structures – roofing, crash barriers, silos, guardrails.
- Agricultural applications – grain silos, storage structures.

Performance Testing for Powakote®

Test	Conventional Galvanising	Powakote® (ZM)
Salt Spray (ISO 9227)	Red rust < 72h	Red rust > 500h
Cyclic Corrosion	Moderate resistance	Superior long-term protection
Field Exposure	Rust at cut edges	Self-healing prevents rust spread



Technical Data Sheet

POWAKOTE® STRUT

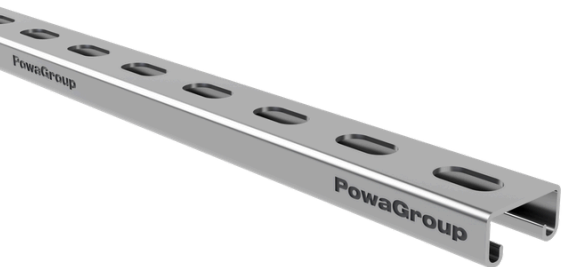


Load Rating & Deflection: 41mm x 21mm

Span (mm)	Max. Allowable Load (kg)
250	333
500	166
750	111
1500	55
3000	28

Load Rating & Deflection: 41mm x 41mm

Span (mm)	Max. Allowable Load (kg)
250	980
500	490
750	327
1500	163
3000	82



Maximum Load Information:

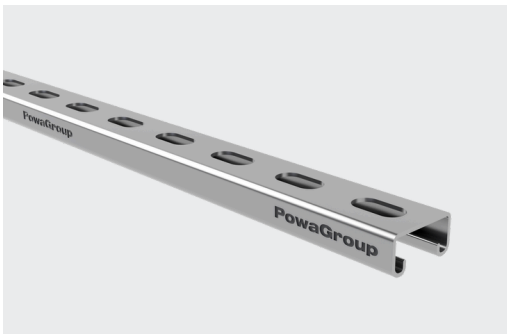
Loads are assumed to be static and applied as a uniformly distributed load (UDL). Published capacities correspond to plain channels analysed under simply supported beam conditions.

Technical Data Sheet

POWAKOTE® STRUT



Slotted Strut Heavy Duty - 41 x 21 x 2.5mm



Product Code	Size
09SLH20C300K	300mm
09SLH20C450K	450mm
09SLH20C600K	600mm
095LH20C750K	750mm
095LH206KOTE	6000mm

Slotted Strut Heavy Duty - 41 x 41 x 2.5mm



Product Code	Size
09SLH40C300K	300mm
095LH40C650K	650mm
095LH40C1000K	1000mm
095LH40C1200K	1200mm
095LH40C1500K	1500mm
095LH40C2000K	2000mm
095LH406KOTE	6000mm