



Industrial Product Guide

For suspending Mechanical & Electrical services,
HVAC and Signage





Spiral, Oval and Rectangular Ductwork, **Plenum Boxes**, Destratifier Units, **Roof Stacks**, Fan Coil Units, **Chilled Beams**, Heaters, **Pipework**, Cable Basket, **Ladder Tray**, Conduit, **High Bay Fluorescents**, Track Lighting, **Strip Lighting**, Troffers/ Lay-in Fixtures, **Signage**, Ceiling Clouds, **Acoustic Baffles**, Suspended Ceilings, **Solar Panels**, Cold Rooms, etc.

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About Gripple

An introduction

Gripple introduced emphatic change to the building services market in the late 1990s, with a fresh and alternative means of suspension. When the original Gripple device was conceived, as a solution for joining and tensioning fence wires, no-one could have predicted that this would lead to the radical approach of using cable hangers, which have fast become the benchmark, for quick and easy methods of hanging mechanical, electrical, HVAC and plumbing services.

As a result of this revolution, Gripple introduced an entirely new way of working to the construction industry. Load-rated hanger kits quickly proved perfect for ductwork, cable containment, lighting, pipework, suspended ceilings, signage and much, much more. Driven by a problem-solving attitude and determination to innovate, the product range has continued to expand year after year, offering customers a vast array of revolutionary suspension methods.

Not only have Gripple's versatile products brought speed, improved site safety and best practice efficiency savings to the installation process, the company also prides itself on providing custom hanging solutions and fast site delivery. Furthermore, personal consultations are always available, and Gripple strives continually to provide the best solutions for specific needs. As a consequence, the company's capabilities are now recognized, admired and trusted worldwide.

“...the company's capabilities are now recognized, admired and trusted worldwide.”

Sustainable development

A commitment to the environment

Gripple has always recognized the importance of sustainability, pledging in an environmental policy statement to identify risks, prevent pollution, comply with the relevant legislation and improve its environmental performance overall. Customers can be confident that the company has minimized, as far as possible, its environmental impact during product design and manufacture, and believe that they and their applications can play a fundamental part in achieving their own sustainability objectives.



Sustainability in design

Gripple products have reduced significantly the quantity of steel used on a given project. By replacing traditional threaded rod installations with Gripple hangers, steel consumption is reduced by up to 95%. In other words, for each ton of rod used, Gripple cable hangers can achieve the same results, but potentially weigh as little as 110 lbs. Moreover, fewer vehicle movements mean lower transportation costs and emissions and, because Gripple is lighter and easier to carry, accidents during handling and installation are also reduced.

As a manufacturer, Gripple recognizes its responsibility to minimize the company's impact on the planet. Therefore, we constantly maximize our energy efficiency, decrease electricity use, reduce landfill / incinerated waste, increase recycling, conserve our raw materials' use and minimize packaging. We also integrate sustainability into our design process, which is epitomized by the impressive fact that a Gripple hanger today uses 30% less zinc than before, without compromising its strength or functionality.



Inside the Old West Gun Works (UK plant)



Inside Gripple Inc (US plant)

A global family

From Sheffield to the wider world

An extensive range of innovative products is produced in state-of-the-art facilities in Sheffield, England, a city with a rich manufacturing history. On sites in the city's Don Valley - The Old West Gun Works, a former gun barrel plant, and the modern, purpose-built Riverside - this tradition is maintained to reflect the strong heritage that characterizes the city.

The company's enviable growth has also demanded the establishment of other company locations. The Gripple Inc. manufacturing operation serves North America from its facility outside of Chicago, and the Gripple Europe base is nestled in the Alsace region of France. Firm relationships are maintained with many distributors, to whom Gripple products are supplied for construction sites around the world.

Gripple's core ethos and values permeate each of the company's employees, who work as a team to ensure that the highest quality goods are delivered to all destinations, at all times. A spirit of creativity and innovation has allowed Gripple to reach where it is today and, by keeping this alive, game-changing solutions will continue to be provided far into the future.



The Old West Gun Works, Sheffield, UK



Gripple Inc, Aurora IL, USA



Gripple Europe S.à.r.l, Obernai, France

Awards



*Hugh Facey Gripple's owner receiving the **Queen's Award for Enterprise - International Business** from the Lord Lieutenant of South Yorkshire*

- 2010** - Queen's Award for Sustainable Development
- 2009** - BFA - Innovation Award
- 2009** - BFA - Best Small Company Award
- 2009** - BFA - Best Engineering Plant Award
- 2009** - IMechE - Best Small / Medium Enterprise
- 2008** - Queen's Award for Enterprise - International Business
- 2007** - British Chambers of Commerce - Achievement in International Business
- 2007** - EEF - Annual Environmental Award
- 2006** - The Manufacturer - Manufacturer of the Year Award
- 2004** - IMechE - Best Small / Medium Enterprise
- 2004** - IMechE - Best Factory Award - Overall Winner
- 2004** - National Community Mark Standard
- 2003** - Management Today Awards for Manufacturing - Best Small Plant
- 2003** - Management Today Awards for Manufacturing - Best Innovation for R&D
- 2003** - IMechE - Best Product Innovation
- 2002** - British Chambers of Commerce - Export Excellence Award
- 2001** - National Language for Export – Regional Winner (Trade Partners UK)
- 2000** - Queen's Award for Enterprise - Innovation
- 1995** - Export Times - Corporate Exporter of the Year
- 1991** - The Prince of Wales Award for Innovation
- 1990** - Grand Prix du President de la République (France)
- 1990** - Concours Lepine Gold Medal (France)







Application contents

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Mechanical *page 16*

Electrical *page 18*

Lighting *page 22*

Other applications *page 26*

Custom solutions *page 30*

HVAC

**“By the end of the job,
everyone was sold on
Gripple. It’s great!”**

HVAC Operations Manager,
Mechanical contractor, Denver, CO



HVAC: Spiral duct



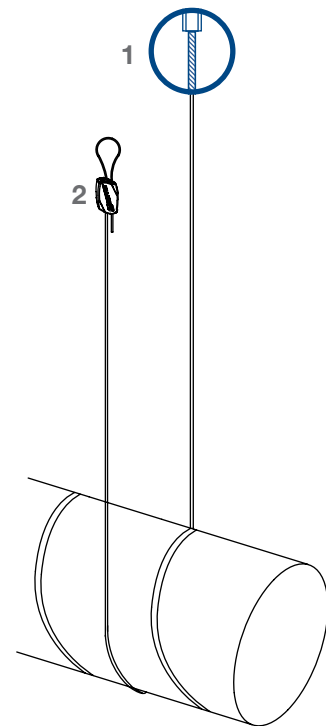
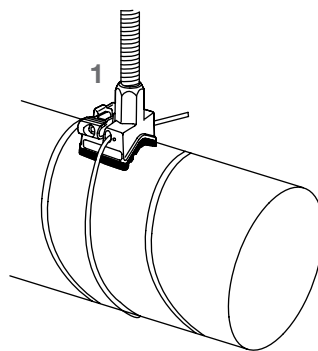
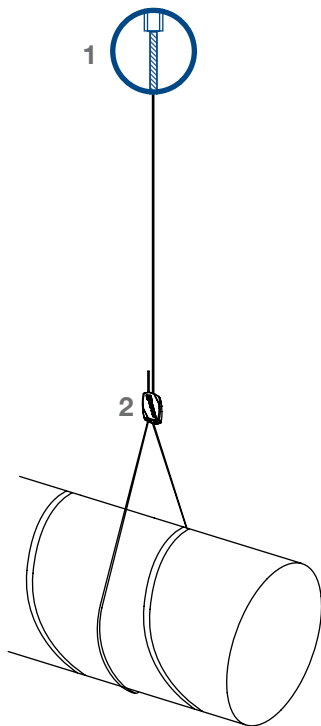
Single point choke



Universal clamp



Double point cradle



Recommended materials



1. End fixing
Page 55 - 63



2. Standard Gripper HF
Page 38



1. Universal clamp
Page 48



1. End fixing
Page 55 - 63



2. Standard Gripper HF
Page 38



HVAC: Rectangular duct



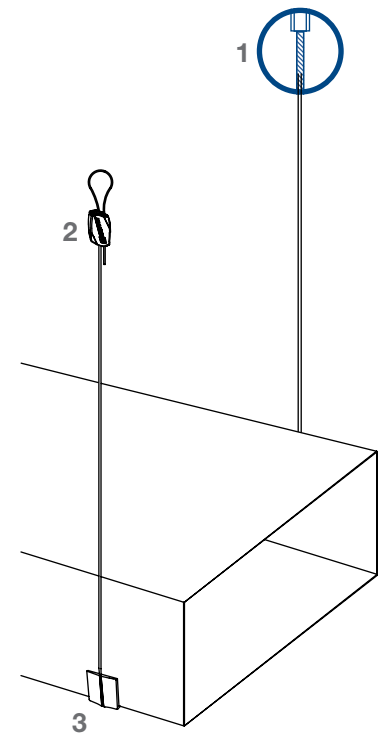
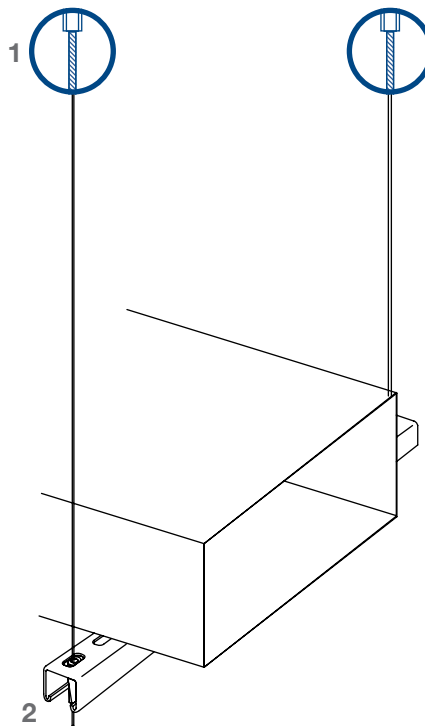
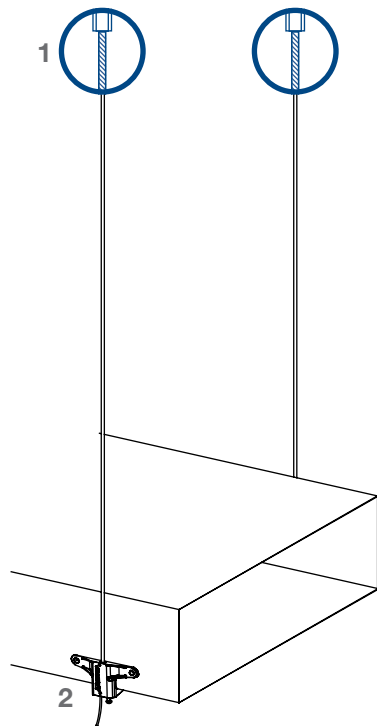
Duct trapeze



Trapeze hanger with struts



Corner saddles



Recommended materials



1. End fixing
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2. Duct trapeze
Page 42



1. End fixing
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2. Trapeze
Page 40



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



3. Corner saddle
Page 72

HVAC: Oval duct



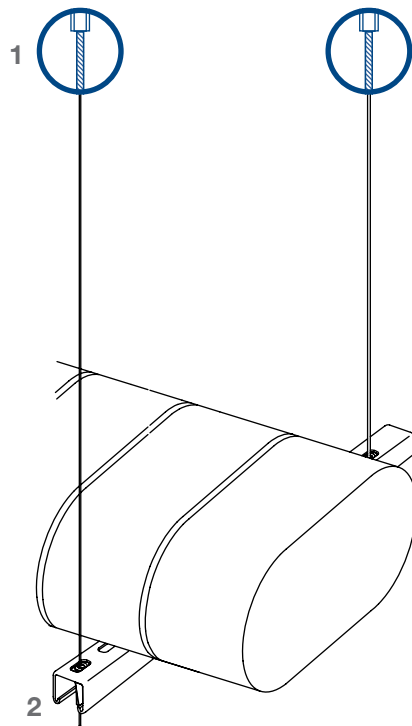
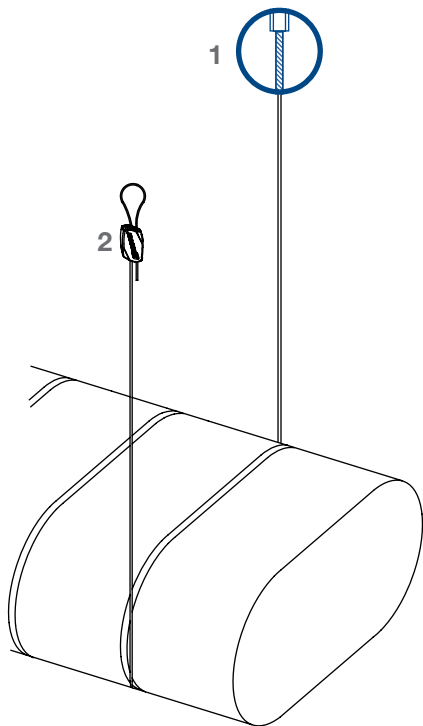
Double point cradle



Double point cradle



Trapeze hanger with strut



Recommended materials



1. End fixing
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2. Standard Gripper HF
Page 38



1. End fixing
Page 55 - 63



2. Trapeze
Page 40



HVAC: Ventilation



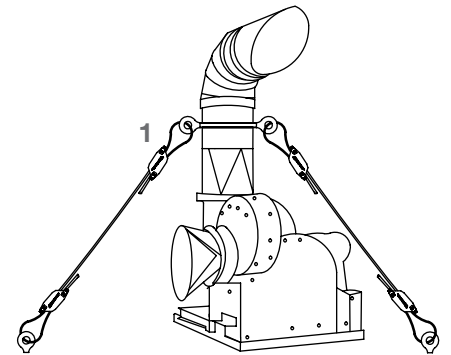
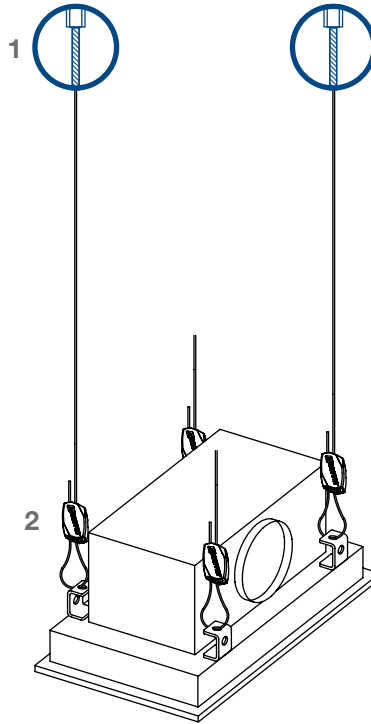
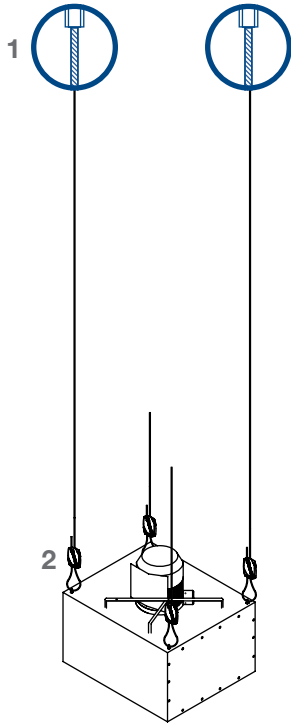
Hangers attached to unit



Hangers attached to brackets



Roof bracing



Recommended materials



1. End fixing
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2. Standard Gripples HF
Page 38



1. End fixing
Page 55 - 63



2. Standard Gripples HF
Page 38



1. Catenary (outdoor)
Page 52

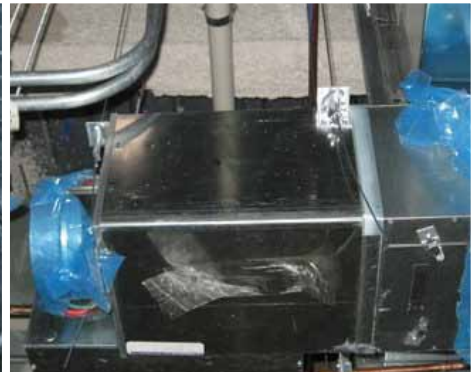
HVAC: Fan coil units



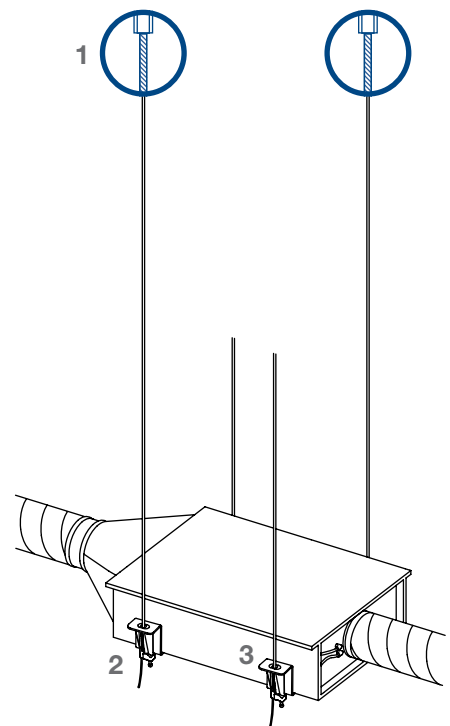
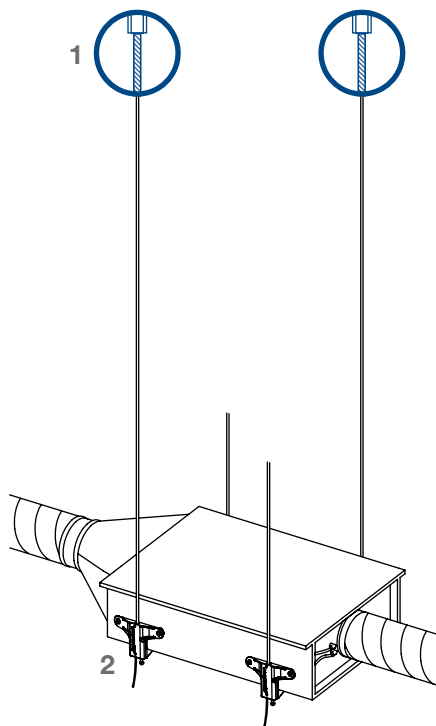
Duct trapeze hangers



Hangers attached to unit



Trapeze brackets



Recommended materials



1. End fixing
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2. Duct trapeze
Page 42



1. End fixing
Page 55 - 63



2. Trapeze
Page 40



3. Trapeze bracket
Page 70



HVAC: Chilled beams



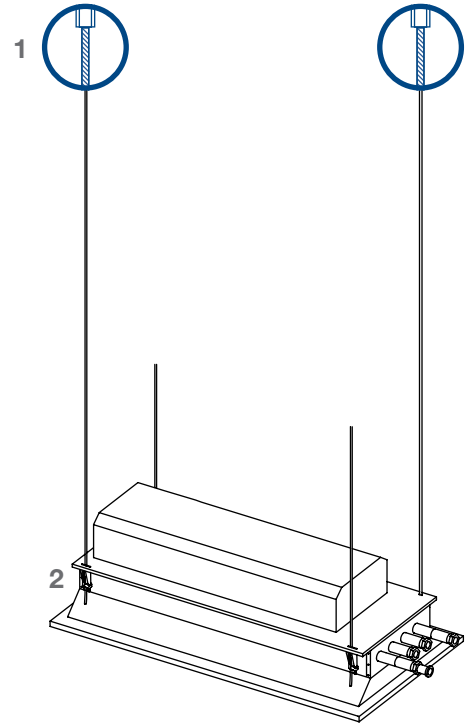
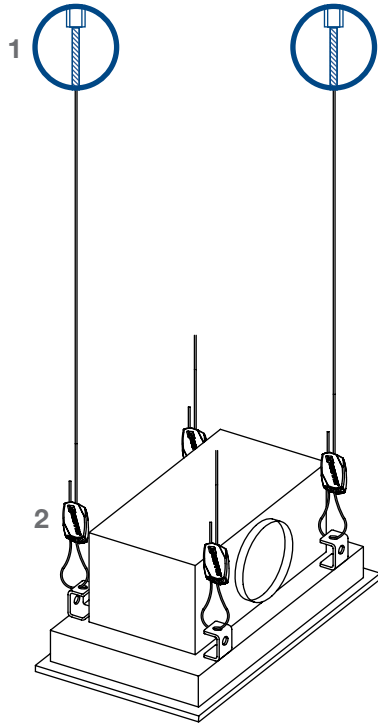
Hangers attached to brackets



Hangers attached to brackets



Hangers attached to unit



Recommended materials



1. End fixing
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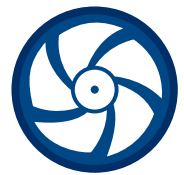
2. Standard Gripples HF
Page 38



1. End fixing
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2. Trapeze
Page 40



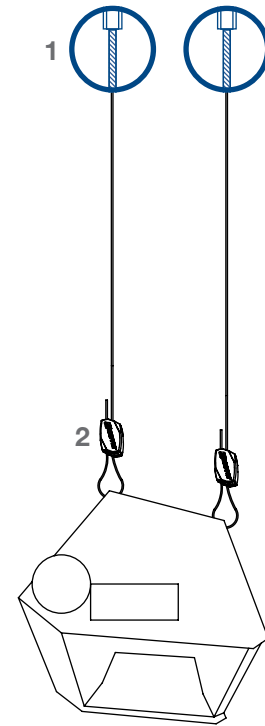
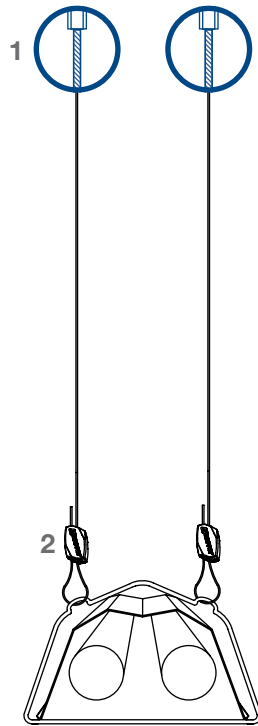
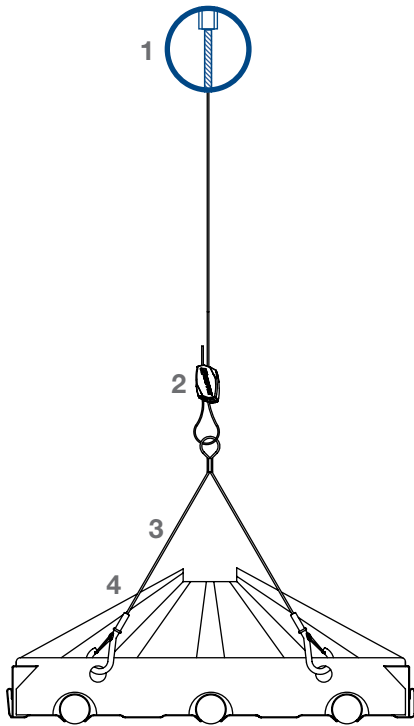
Y-Fit or Y-Fit accessory



Standard Gripple HF



Standard Gripple HF



Recommended materials



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



3. Y-Fit accessory
Page 45



4. Hook end fixing
Page 58



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38

Mechanical



“It would have been almost impossible to do this job without Gripple.”

Field Supervisor,
Mechanical contractor, Dallas, TX

Mechanical: Pipework



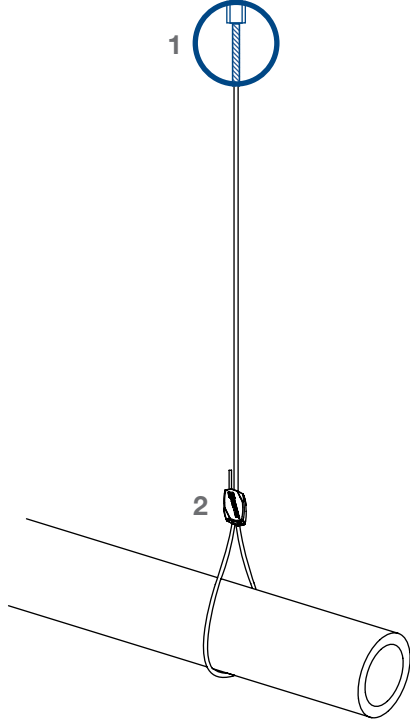
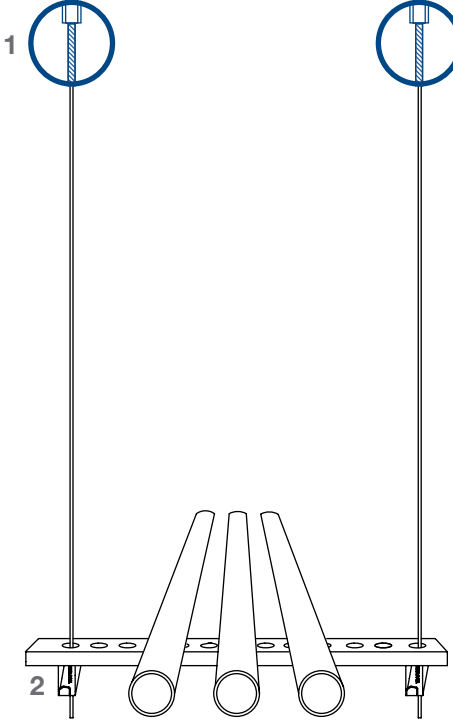
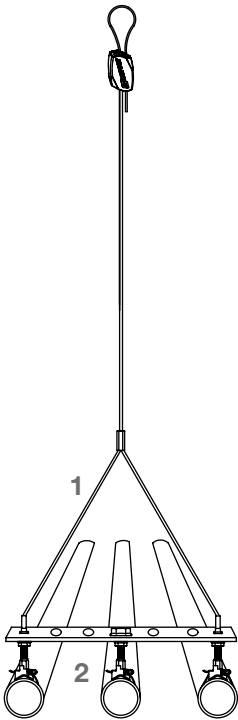
Y-Pipe hanger



Trapeze hangers with strut



Single point choke



Recommended materials



1. Y-Pipe
Page 46



2. Universal clamp for pipework
Page 48



1. End fixing
Page 55 - 63



2. Trapeze
Page 40

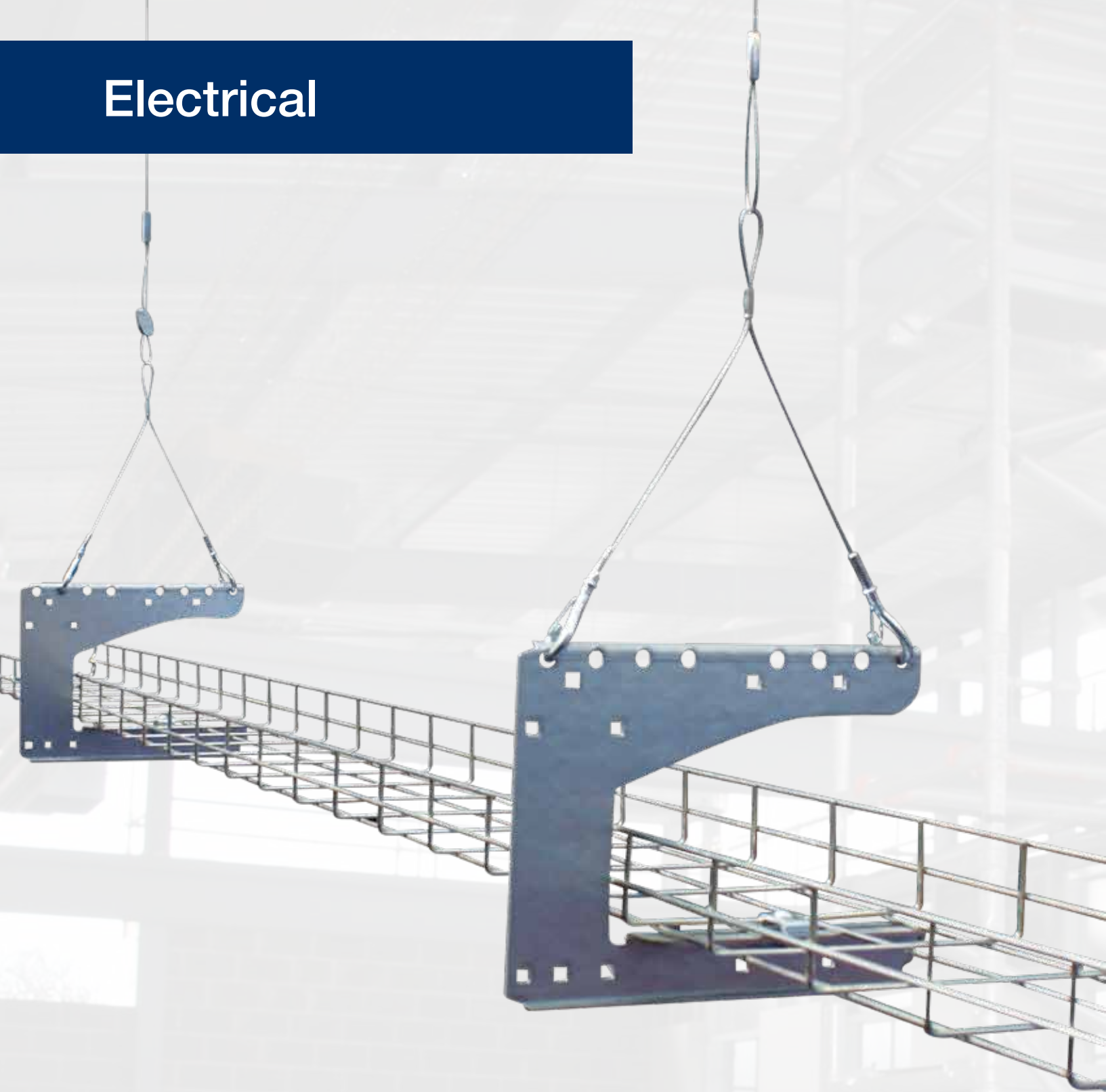


1. End fixing
Page 55 - 63



2. Standard Gripper HF
Page 38

Electrical



“Gripple hangs nice and straight, even when angled around other services... threaded rod can’t do that! I’ll never go back to all thread.”

Project Manager,
Electrical contractor, Las Vegas, NV

Electrical: Cable basket



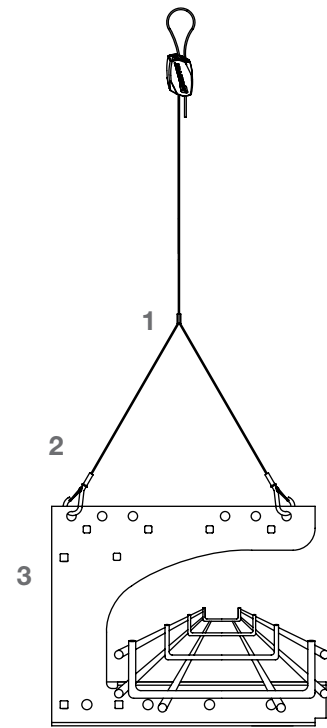
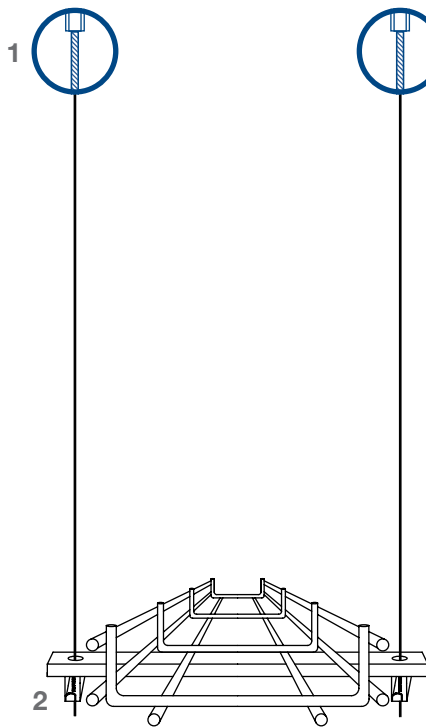
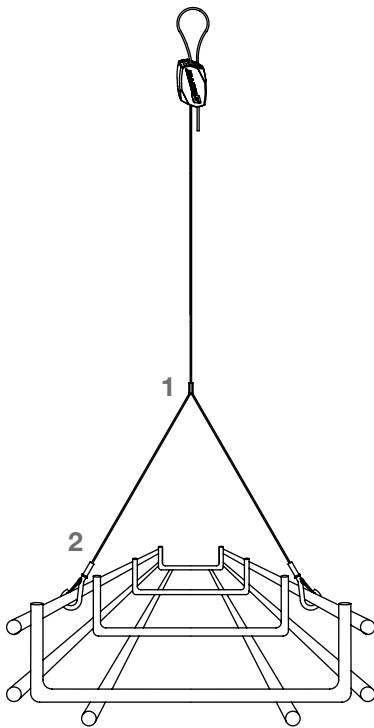
Y-Fit hanger



Trapeze hangers with strut



Y-Fit hanger with G-Bracket



Recommended materials



1. Y-Fit
Page 44



2. Hook end fixing
Page 58



1. End fixing
Page 55 - 63



2. Trapeze
Page 40



1. Y-Fit
Page 44



2. Hook end fixing
Page 58



3. G-Bracket
Page 70



Electrical: Ladder tray



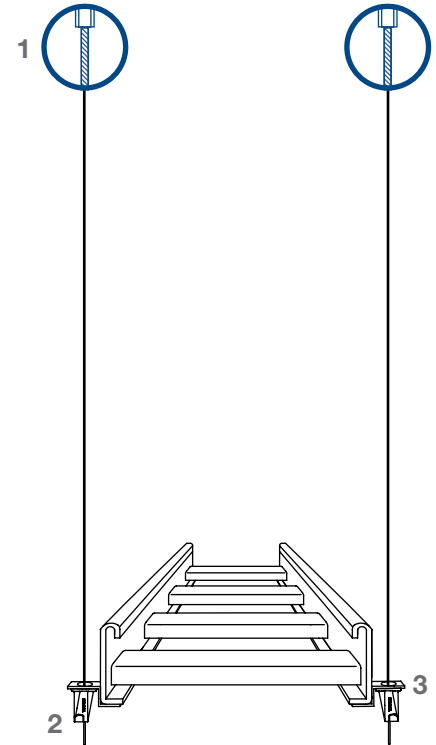
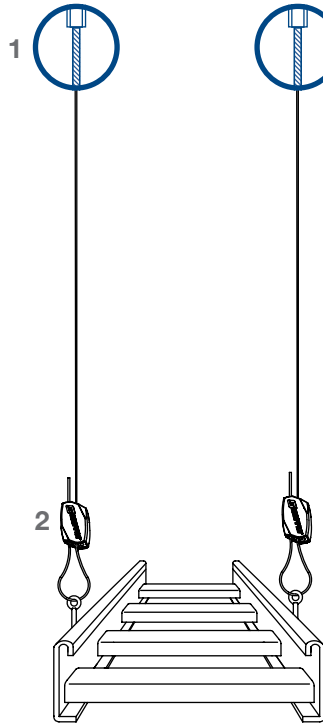
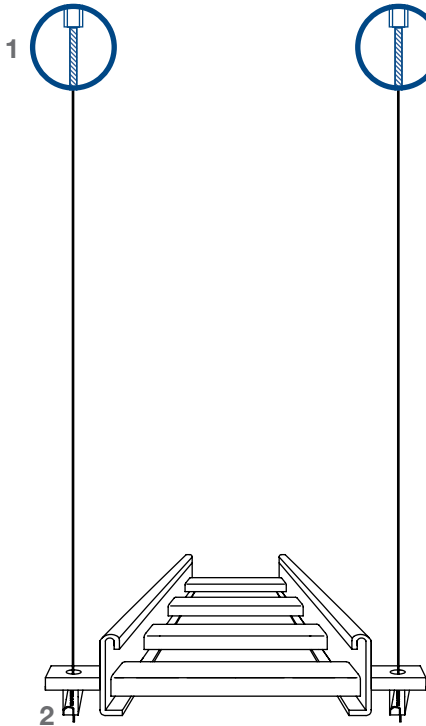
Trapeze hangers with strut



Standard Gripple HF through eyebolts



Trapeze brackets



Recommended materials



1. End fixing
Page 55 - 63



2. Trapeze
Page 40



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



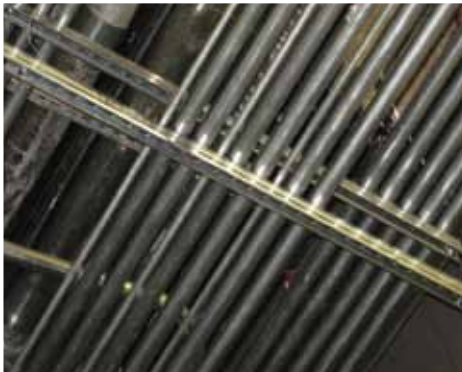
1. End fixing
Page 55 - 63



2. Trapeze
Page 40



3. Trapeze bracket
Page 70



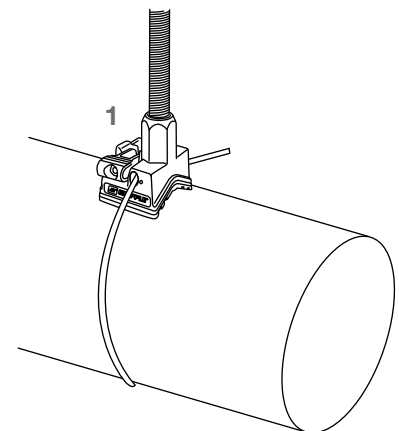
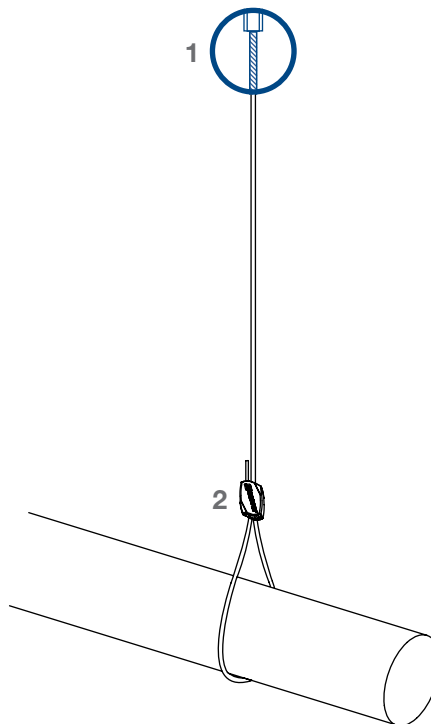
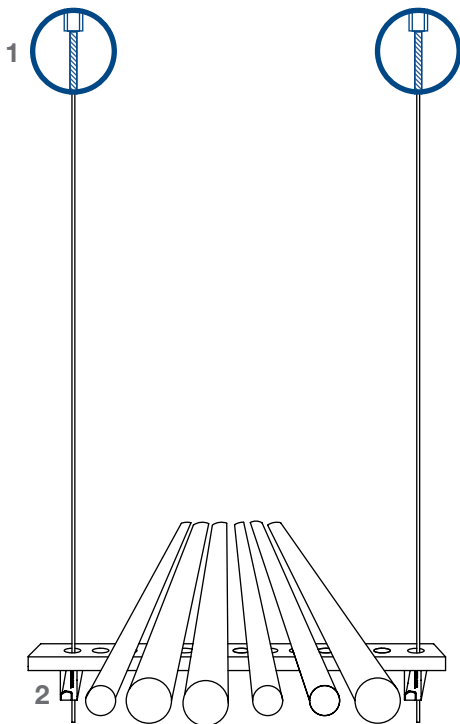
Trapeze hangers with strut



Single point choke



Universal clamp



Recommended materials



1. End fixing
Page 55 - 63



2. Trapeze
Page 40



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



1. Universal clamp
Page 48

Lighting

“I knew immediately that this would save us a great deal of time and money. So far it has exceeded our expectations. Grippler is a great product and so simple to use.”

Job Superintendent,
Electrical contractor, Atlanta, GA



Lighting: High bay fluorescents



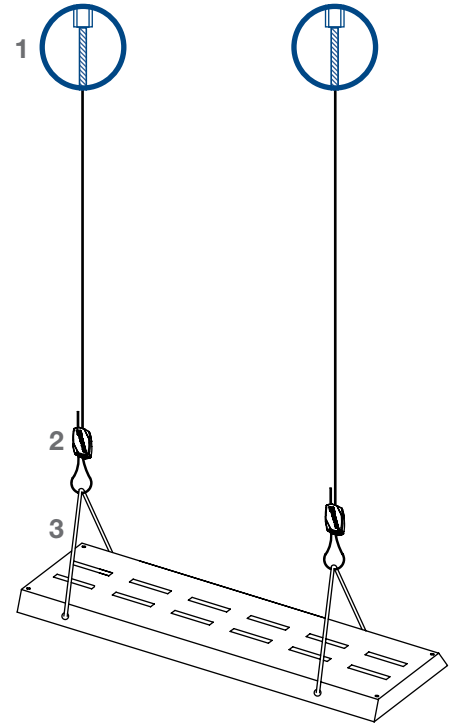
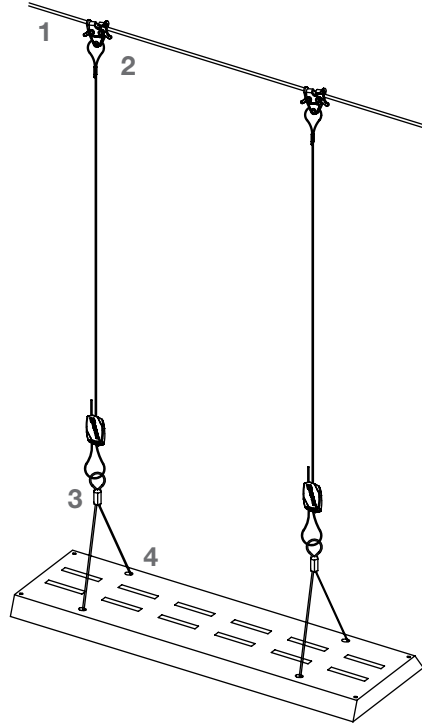
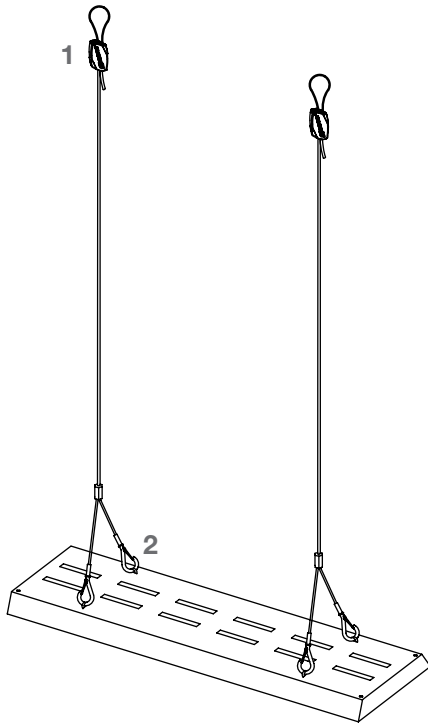
Y-Hook hangers



Y-Toggle hangers



Standard Gripple HF with V-Brackets



Recommended materials



1. Y-Fit
Page 44



2. Hook end fixing
Page 58



1. Cable strut (indoor)
Page 50



2. C-Clip (indoor)
Page 51



3. Y-Fit accessory
Page 45



4. Toggle end fixing
Page 57



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



3. V Bracket
Page 69



Lighting: Track and strip



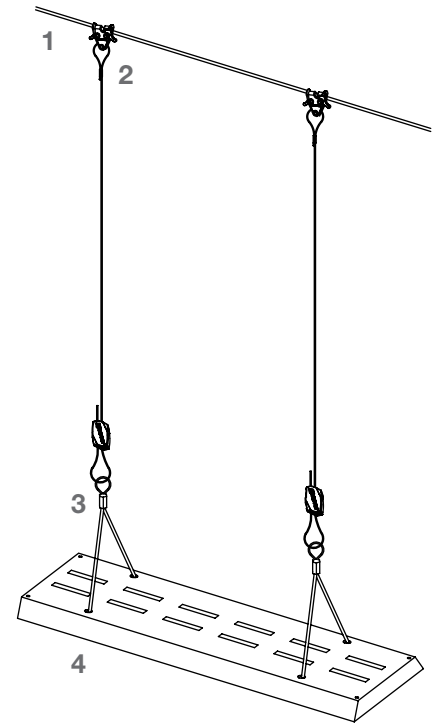
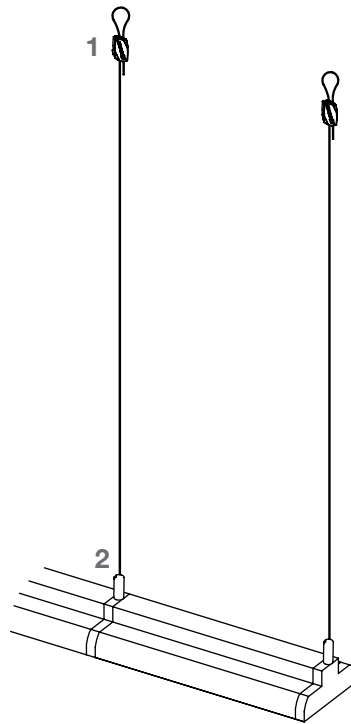
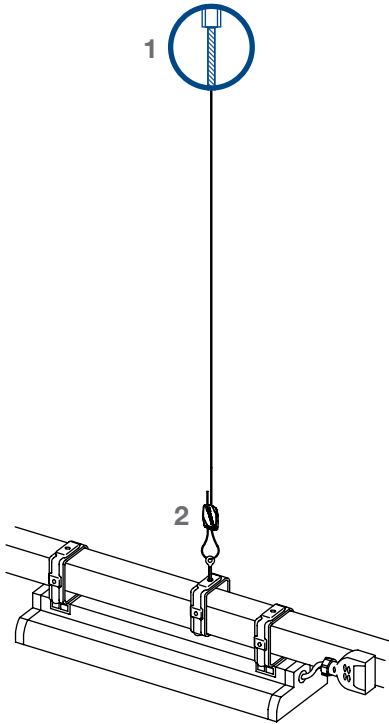
Track lighting



Track lighting



Strip lighting



Recommended materials



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



1. Standard Gripple HF
Page 38



2. Barrel end fixing
Page 59



1. Cable strut (indoor)
Page 50



2. C-Clip (indoor)
Page 51



3. Y-Fit accessory
Page 45



4. Toggle end fixing
Page 57

Lighting: Troffer supports



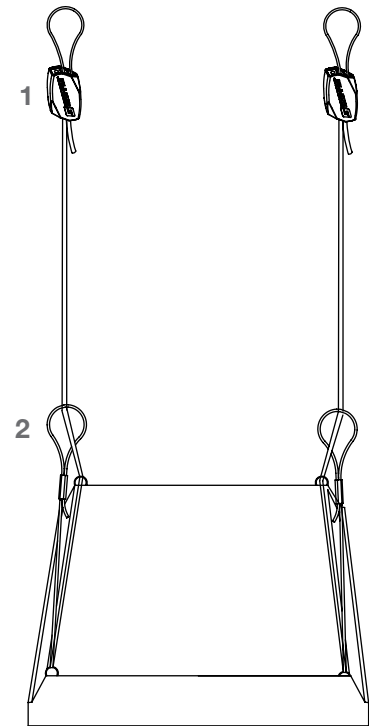
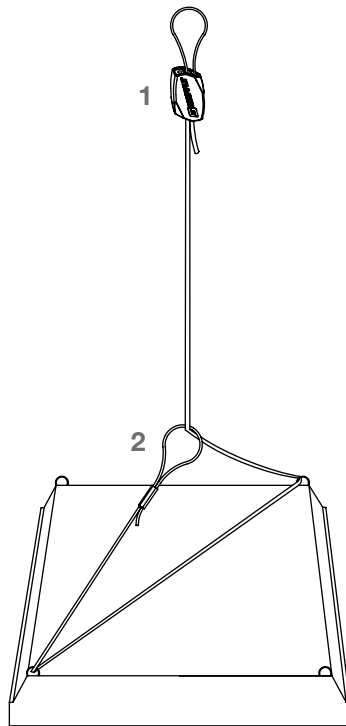
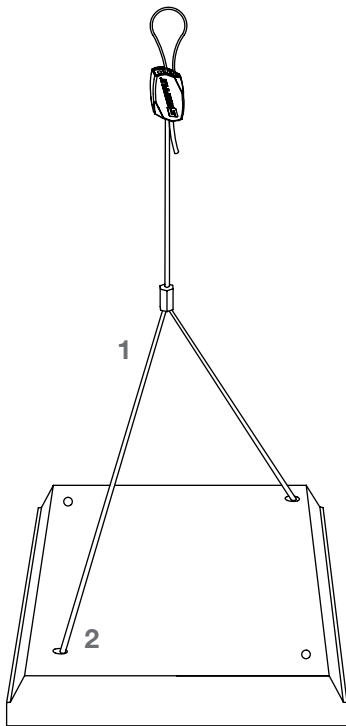
Troffer support



Troffer support



Troffer support



Recommended materials



1. Y-Fit
Page 44



2. Toggle end fixing
Page 57



1. Standard Gripple HF
Page 38



2. Loop end fixing
Page 56



1. Standard Gripple HF
Page 38



2. Loop end fixing
Page 56

Other applications

“By using Gripple, the contractor gained one week’s installation time, the hangers were barely noticeable, and the whole team had nothing but positive things to say about the benefits of Gripple cable hangers.”

Data Facility Office Project,
Waltham, MA

Other: Signage



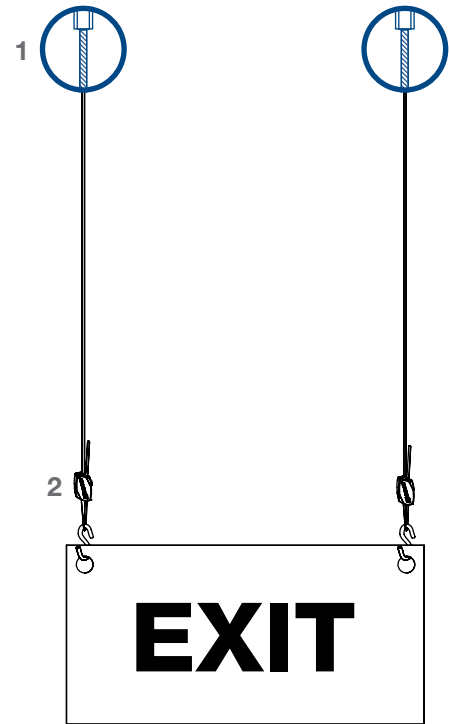
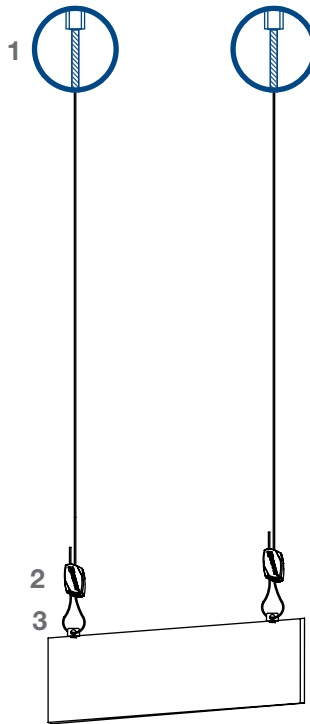
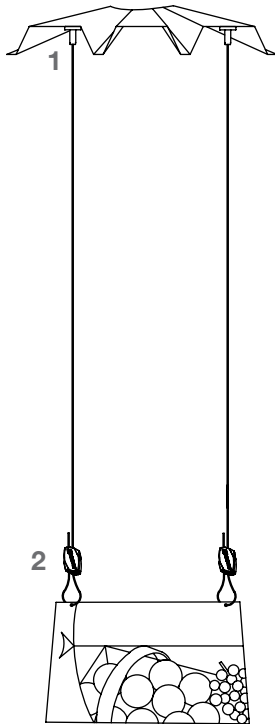
In store signs



In store signs



In store signs



Recommended materials



1. Magnetic pad end fixing
Page 59



2. Standard Gripple HF
Page 38



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



3. Adaptor
Page 69



1. End fixing
Page 55 - 63



2. Standard Gripple HF
Page 38



Other: Suspended ceilings



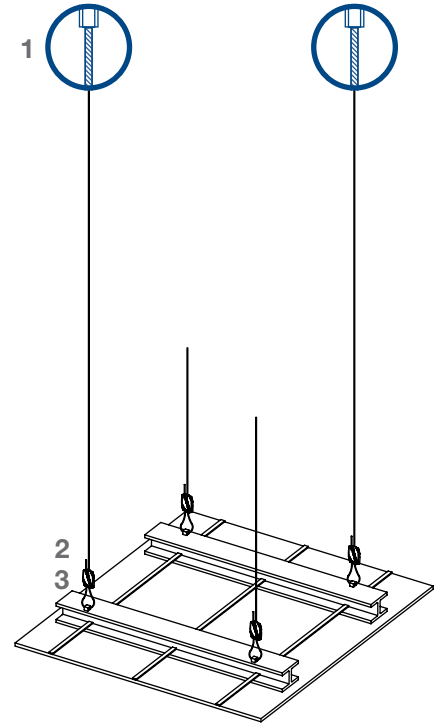
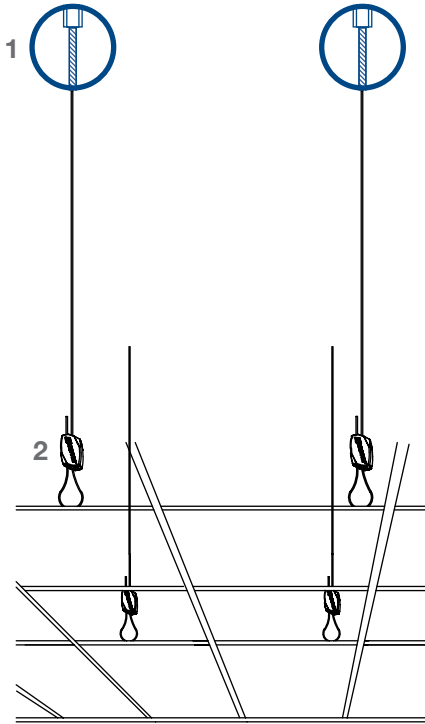
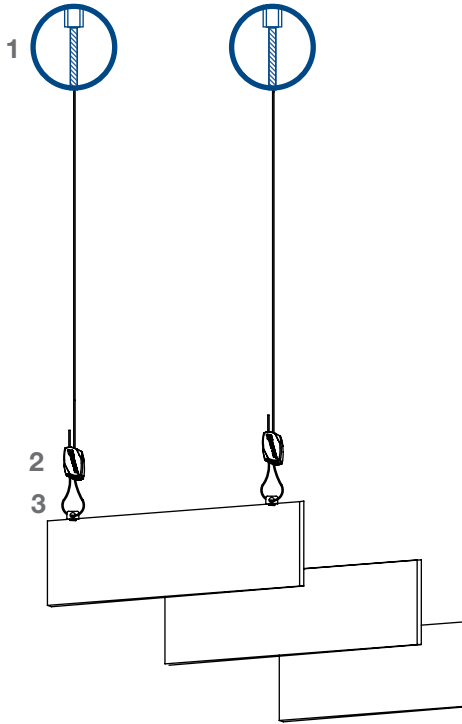
Acoustic baffle



Suspended ceiling



Ceiling clouds



Recommended materials



1. End fixing
Page 55 - 63



2. Standard Gripper HF
Page 38



3. Adaptor
Page 69



1. End fixing
Page 55 - 63



2. Standard Gripper HF
Page 38



1. End fixing
Page 55 - 63



2. Standard Gripper HF
Page 38



3. Adaptor
Page 69

Other: Solar panels and cold rooms



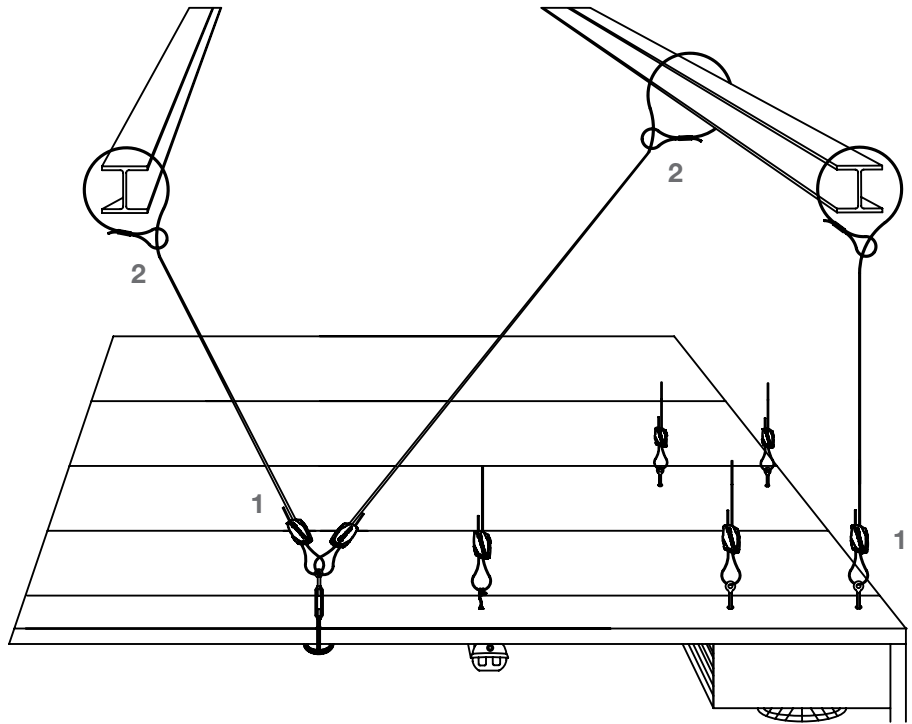
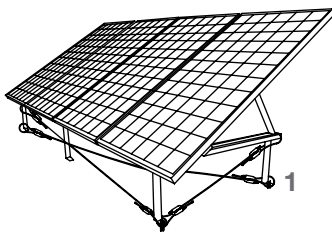
Solar panel bracing



Sandwich panel



Under panel lighting



Recommended materials



1. Catenary (outdoor)
Page 52



1. Standard Gripple HF
Page 38



1. Standard Gripple HF
Page 38



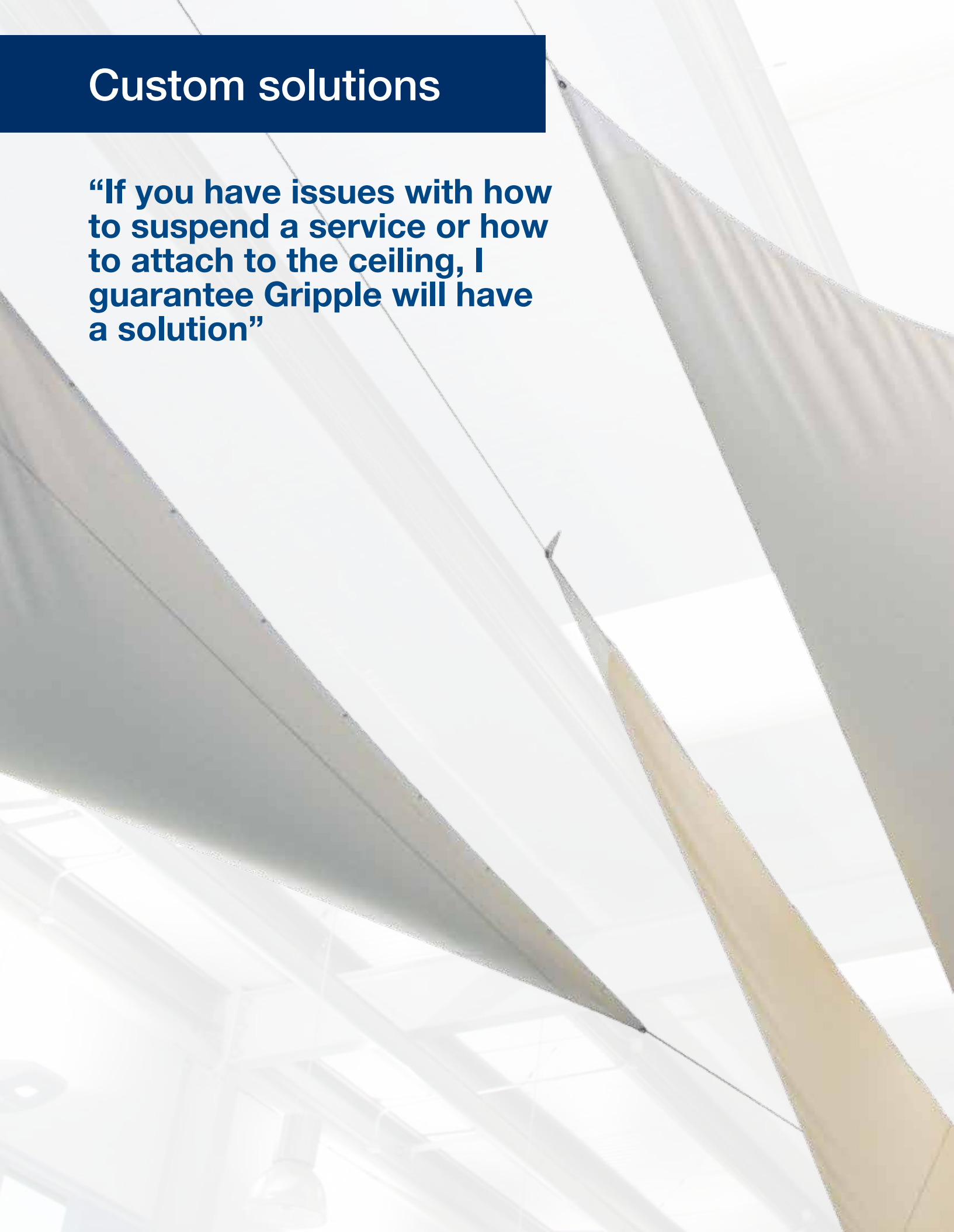
2. Loop end fixing
Page 56



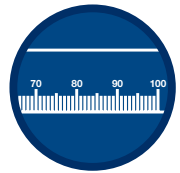
2. Loop end fixing
Page 56

Custom solutions

“If you have issues with how to suspend a service or how to attach to the ceiling, I guarantee Gripple will have a solution”



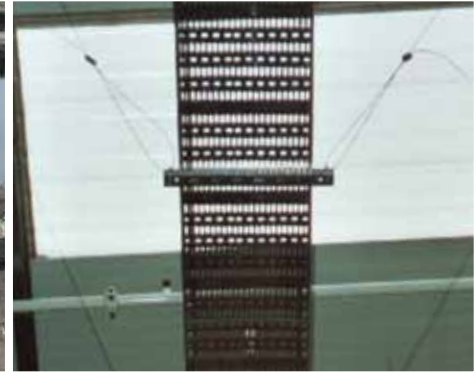
Custom solutions



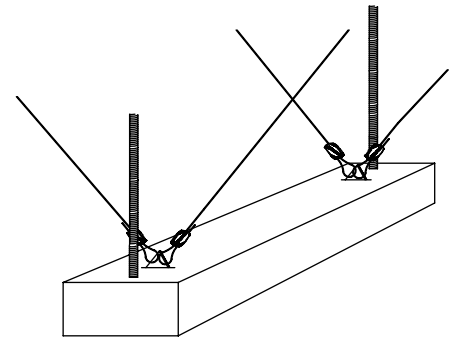
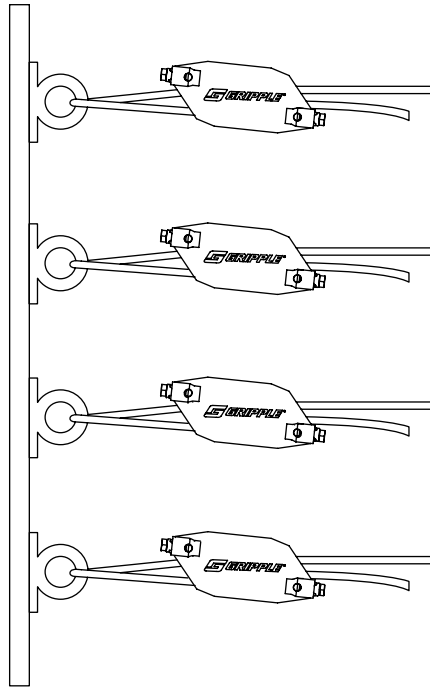
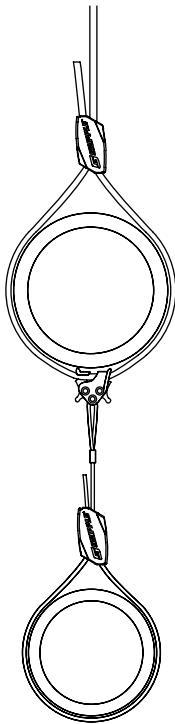
Tiered ductwork



Perimeter safety cables



Sway bracing



Griple is an award winning company that continues to grow on the strength of its focus on innovation. The commitment to developing new products by our Ideas & Innovation team has made us a market leader. As such, Griple Inc. is pleased to offer custom-made solutions upon request to meet your individual project needs or challenges.

Griple Inc.'s manufacturing facility in the United States is located just outside of Chicago. We qualify for the Buy American Act, and our products meet military and federal requirements.

Please contact your Griple territory manager or representative for any special products, requests, technical information, or to discuss how we can help you best achieve the solutions you desire.

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Building structures

“Gripple offers many best practice options for attachment to virtually any ceiling type.”



Building structures: Steel and wood



Hook from beam clip



Loop choked around bar joist



Eyebolt anchor

These are typical Gripple hanger installations seen for Structural Steel and Wood ceiling structures.

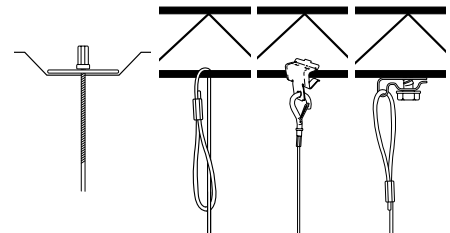
Contact your Gripple Territory Manager for additional solution assistance and options.

Structural steel

Metal deck / Bar joist

Ceiling structure	Gripple options	Installation method
Metal deck	Toggle	Drilling
Bar joist	Loop, wraparound w/Gripple top	Choke
Bar joist	Hook	Beam clamp / Clip
Bar joist	Loop with Ceiling clip	Shot firing

Left to right - Toggle, Loop in Choke, Beam clip with Hook, Loop with Ceiling clip

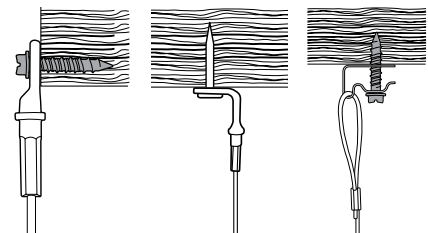


Wood

Wood beams

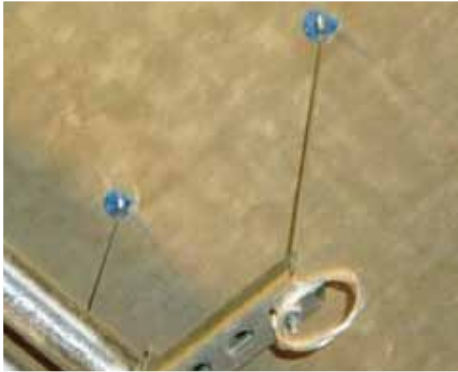
Gripple options	Installation method
Eyelet, 90° Eyelet, Loop with Ceiling clip	Drilled / Screwed

Left to right - Eyelet, 90° Eyelet, Loop with Ceiling clip





Building structures: Concrete



3/8 Stud in concrete insert



90° Eyelet in concrete



Hook in concrete ceiling anchor

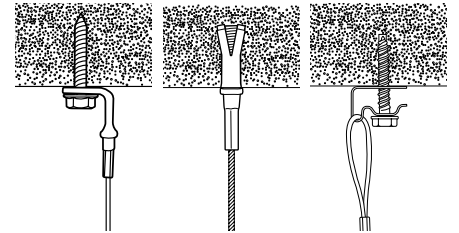
These are typical Gripple hanger installations seen for Metal Pan Deck with poured or slab concrete, Precast and Cast-in-place concrete ceiling structures.

Contact your Gripple Territory Manager for additional solution assistance and options.

Precast concrete

Gripple options	Installation method
90° Eyelet, Stud, Loop with Ceiling clip	Drilling

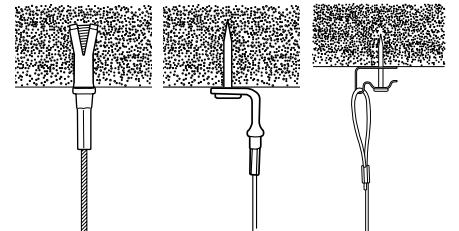
Left to right - 90° Eyelet, Stud, Loop with Ceiling clip



Cast-in-place concrete

Gripple options	Installation method
Stud	Concrete inserts. internally threaded
90° Eyelet, Loop with Ceiling clip	Shot firing

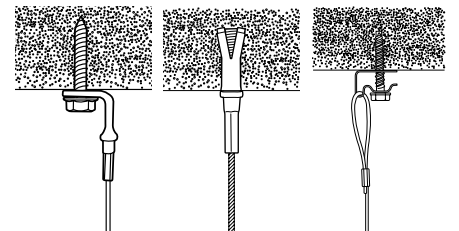
Left to right - Stud, 90° Eyelet, Loop with Ceiling clip



Cast-in-place concrete

Gripple options	Installation method
90° Eyelet, Stud, Loop with Ceiling clip	Drilling

Left to right - 90° Eyelet, Stud, Loop with Ceiling clip



Building structures: Concrete



Stud in concrete insert



Loop with ceiling clip

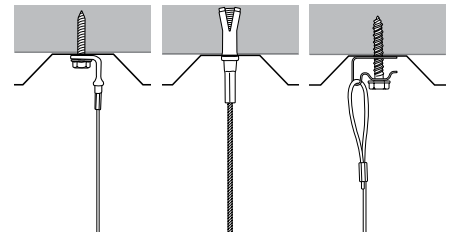


Loop with concrete wire anchor

Metal pan deck - Slab

Gripping options	Installation method
90° Eyelet, Stud, Loop with Ceiling clip	Drilling

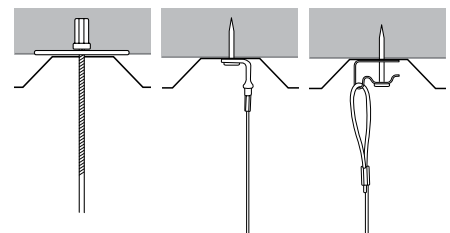
Left to right - 90° Eyelet, Stud, Loop with Ceiling clip



Metal pan deck - Slab

Gripping options	Installation method
Toggle	Drilling
90° Eyelet, Loop with Ceiling clip	Shot firing

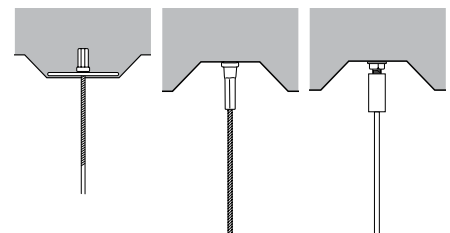
Left to right - Toggle, 90° Eyelet, Loop with Ceiling clip



Metal deck - Poured

Gripping options	Installation method
Toggle	Pre-insert
Stud	Concrete inserts, internally threaded
Barrel 1/4"	Concrete inserts with 1/4" threaded rod

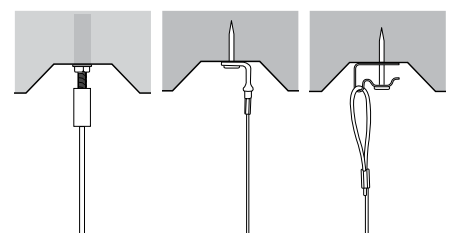
Left to right - Toggle, Stud, Barrel 1/4"



Metal deck - Poured

Gripping options	Installation method
Rod coupler with Barrel 3/8"	Concrete inserts with 3/8" threaded rod
90° Eyelet, Loop with Ceiling clip	Drilling

Left to right - Rod coupler with Barrel 3/8", 90° Eyelet, Loop with Ceiling clip





Product contents

Standard Gripple HF	<i>page 38</i>
Trapeze	<i>page 40</i>
Duct trapeze	<i>page 42</i>
Y-Fit hanger	<i>page 44</i>
Y-Fit accessory	<i>page 45</i>
Y-Pipe and accessory	<i>page 46</i>
Stainless steel	<i>page 47</i>
Universal clamp	<i>page 48</i>
Wall clamp	<i>page 49</i>
1/8" and 1/4" Cable Strut (indoor)	<i>page 50</i>
1/8" and 1/4" C-Clip (indoor)	<i>page 51</i>
1/4" Catenary (outdoor)	<i>page 52</i>
1/4" C-Clip (outdoor)	<i>page 53</i>

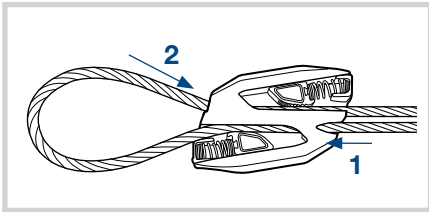


Standard Gripple HF

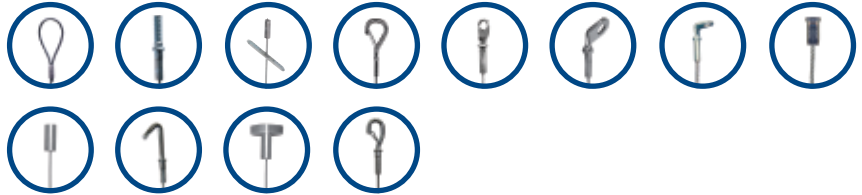
The standard Gripple Hang Fast (HF) range is used to suspend, brace, and secure any services.

- Up to 6 times faster to install than traditional hanging systems
- Supplied as a ready-to-use kit
- Improves work comfort and safety
- Reduced volume and easy handling
- Strong, versatile
- Aesthetically discreet and lightweight
- Available in 5 load rated sizes and in Stainless steel (page 47)
- Certified

Installation



End fixing choices



HVAC






Mechanical and electrical


















Gripple No.1 to No.5

Product codes

End fixing	Size	Length (ft)	No.1 (25 lbs)	No.2 (100 lbs)	No.3 (200 lbs)	No.4 (495 lbs)	No.5 (715 lbs)
 Loop		5	HF1-LG-5FT	HF2-LG-5FT	HF3-LG-5FT	HF4-LG-5FT	HF5-LG-5FT
		10	HF1-LG-10FT	HF2-LG-10FT	HF3-LG-10FT	HF4-LG-10FT	HF5-LG-10FT
		15	HF1-LG-15FT	HF2-LG-15FT	HF3-LG-15FT	HF4-LG-15FT	HF5-LG-15FT
		20	HF1-LG-20FT	HF2-LG-20FT	HF3-LG-20FT	HF4-LG-20FT	HF5-LG-20FT
		30	HF1-LG-30FT	HF2-LG-30FT	HF3-LG-30FT	HF4-LG-30FT	HF5-LG-30FT
 Toggle		5	HF1-TG-5FT	HF2-TG-5FT	HF3-TG-5FT	HF4-TG-5FT	
		10	HF1-TG-10FT	HF2-TG-10FT	HF3-TG-10FT	HF4-TG-10FT	
		15	HF1-TG-15FT	HF2-TG-15FT	HF3-TG-15FT	HF4-TG-15FT	
		20	HF1-TG-20FT	HF2-TG-20FT	HF3-TG-20FT	HF4-TG-20FT	
		30	HF1-TG-30FT	HF2-TG-30FT	HF3-TG-30FT	HF4-TG-30FT	
 1/4" Toggle		5		HF2-TQG-5FT			
		10		HF2-TQG-10FT			
		15		HF2-TQG-15FT			
		20		HF2-TQG-20FT			
		30		HF2-TQG-30FT			

Product codes (continued)

End fixing	Size	Length (ft)	No.1 (25 lbs)	No.2 (100 lbs)	No.3 (200 lbs)	No.4 (495 lbs)
 End stop		5	HF1-EG-5FT	HF2-EG-5FT	HF3-EG-5FT	HF4-EG-5FT
		10	HF1-EG-10FT	HF2-EG-10FT	HF3-EG-10FT	HF4-EG-10FT
		15	HF1-EG-15FT	HF2-EG-15FT	HF3-EG-15FT	HF4-EG-15FT
		20	HF1-EG-20FT	HF2-EG-20FT	HF3-EG-20FT	HF4-EG-20FT
		30	HF1-EG-30FT	HF2-EG-30FT	HF3-EG-30FT	HF4-EG-30FT
 Hook		5	HF1-HG-5FT	HF2-HG-5FT	HF3-HG-5FT	
		10	HF1-HG-10FT	HF2-HG-10FT	HF3-HG-10FT	
		15	HF1-HG-15FT	HF2-HG-15FT	HF3-HG-15FT	
		20	HF1-HG-20FT	HF2-HG-20FT	HF3-HG-20FT	
		30	HF1-HG-30FT	HF2-HG-30FT	HF3-HG-30FT	
 Mini hook		5	HF1-MHG-5FT			
		10	HF1-MHG-10FT			
		15	HF1-MHG-15FT			
		20	HF1-MHG-20FT			
		30	HF1-MHG-30FT			
 1/4" Stud		5	HF1-SQG-5FT	HF2-SQG-5FT	HF3-SQG-5FT	
		10	HF1-SQG-10FT	HF2-SQG-10FT	HF3-SQG-10FT	
		15	HF1-SQG-15FT	HF2-SQG-15FT	HF3-SQG-15FT	
		20	HF1-SQG-20FT	HF2-SQG-20FT	HF3-SQG-20FT	
		30	HF1-SQG-30FT	HF2-SQG-30FT	HF3-SQG-30FT	
 1/4" Stud (2" length)		5		HF2-SQ2G-5FT	HF3-SQ2G-5FT	
		10		HF2-SQ2G-10FT	HF3-SQ2G-10FT	
		15		HF2-SQ2G-15FT	HF3-SQ2G-15FT	
		20		HF2-SQ2G-20FT	HF3-SQ2G-20FT	
		30		HF2-SQ2G-30FT	HF3-SQ2G-30FT	
 3/8" Stud		5			HF3-S3/8G-5FT	HF4-S3/8G-5FT
		10			HF3-S3/8G-10FT	HF4-S3/8G-10FT
		15			HF3-S3/8G-15FT	HF4-S3/8G-15FT
		20			HF3-S3/8G-20FT	HF4-S3/8G-20FT
		30			HF3-S3/8G-30FT	HF4-S3/8G-30FT
 Eyelet		5	HF1-EYQG-5FT	HF2-EYQG-5FT	HF3-EYQG-5FT	
		10	HF1-EYQG-10FT	HF2-EYQG-10FT	HF3-EYQG-10FT	
		15	HF1-EYQG-15FT	HF2-EYQG-15FT	HF3-EYQG-15FT	
		20	HF1-EYQG-20FT	HF2-EYQG-20FT	HF3-EYQG-20FT	
		30	HF1-EYQG-30FT	HF2-EYQG-30FT	HF3-EYQG-30FT	
 45° Eyelet		5		HF2-EY453/8G-5FT	HF3-EY453/8G-5FT	
		10		HF2-EY453/8G-10FT	HF3-EY453/8G-10FT	
		15		HF2-EY453/8G-15FT	HF3-EY453/8G-15FT	
		20		HF2-EY453/8G-20FT	HF3-EY453/8G-20FT	
		30		HF2-EY453/8G-30FT	HF3-EY453/8G-30FT	
 90° 1/4" Eyelet		5	HF1-EY90QG-5FT	HF2-EY90QG-5FT	HF3-EY90QG-5FT	
		10	HF1-EY90QG-10FT	HF2-EY90QG-10FT	HF3-EY90QG-10FT	
		15	HF1-EY90QG-15FT	HF2-EY90QG-15FT	HF3-EY90QG-15FT	
		20	HF1-EY90QG-20FT	HF2-EY90QG-20FT	HF3-EY90QG-20FT	
		30	HF1-EY90QG-30FT	HF2-EY90QG-30FT	HF3-EY90QG-30FT	
 90° 3/8" Eyelet		5			HF3-EY903/8G-5FT	
		10			HF3-EY903/8G-10FT	
		15			HF3-EY903/8G-15FT	
		20			HF3-EY903/8G-20FT	
		30			HF3-EY903/8G-30FT	
 90° 1/2" Eyelet		5			HF3-EY90HG-5FT	
		10			HF3-EY90HG-10FT	
		15			HF3-EY90HG-15FT	
		20			HF3-EY90HG-20FT	
		30			HF3-EY90HG-30FT	
 1/4" Barrel		5	HF1-BQG-5FT	HF2-BQG-5FT		
		10	HF1-BQG-10FT	HF2-BQG-10FT		
		15	HF1-BQG-15FT	HF2-BQG-15FT		
		20	HF1-BQG-20FT	HF2-BQG-20FT		
		30	HF1-BQG-30FT	HF2-BQG-30FT		
 3/8" Barrel		5		HF2-B3/8G-5FT	HF3-B3/8G-5FT	
		10		HF2-B3/8G-10FT	HF3-B3/8G-10FT	
		15		HF2-B3/8G-15FT	HF3-B3/8G-15FT	
		20		HF2-B3/8G-20FT	HF3-B3/8G-20FT	
		30		HF2-B3/8G-30FT	HF3-B3/8G-30FT	
 Cladding hook		5	HF1-CHG-5FT	HF2-CHG-5FT	HF3-CHG-5FT	
		10	HF1-CHG-10FT	HF2-CHG-10FT	HF3-CHG-10FT	
		15	HF1-CHG-15FT	HF2-CHG-15FT	HF3-CHG-15FT	
		20	HF1-CHG-20FT	HF2-CHG-20FT	HF3-CHG-20FT	
		30	HF1-CHG-30FT	HF2-CHG-30FT	HF3-CHG-30FT	
 Magnetic pad		5	HF1-MPG-5FT			
		10	HF1-MPG-10FT			
		15	HF1-MPG-15FT			
		20	HF1-MPG-20FT			
		30	HF1-MPG-30FT			

5:1 safety factor (except Magnetic pad end fixing, page 59).
Other lengths are available on request.



Trapeze No.2

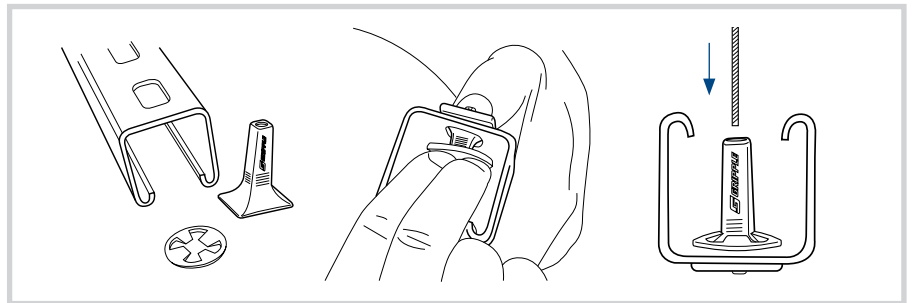
Purpose-made single channel Gripple, ideal for use with strut support.

- Ideal for fast suspension of chilled beams, cable tray, etc.
- Tapered design - accommodate all slots sizes
- Discreet - fits completely inside the strut channel
- Pre-fits onto strut channel to ease working at height
- Pin allows rapid adjustment
- Load rated at 100 lbs with a 5:1 safety factor
- Supplied as a ready-to-use kit

Installation



Cable tray



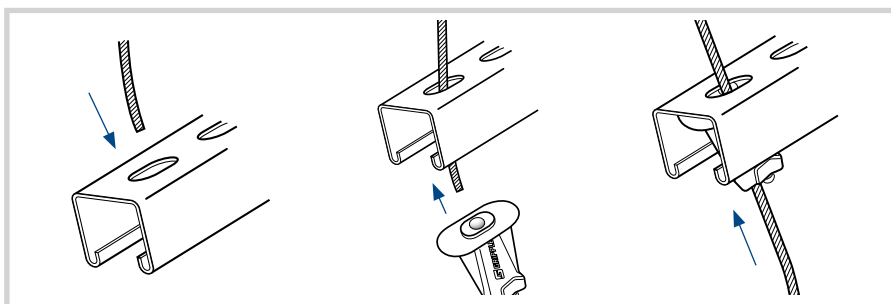
Trapeze No.3

Purpose-made single channel Gripple, ideal for use with strut support.

- Ideal for fast suspension of strut trapeze systems for support of rectangular duct, cable basket and ladder, conduit racks, etc.
- Slots easily into strut
- Release pin allows rapid height adjustment
- Load rated at 200 lbs with a 3:1 safety factor
- Supplied as a ready-to-use kit
- Ideal for use with the Trapeze bracket (page 70)















Installation



Multi-tiered cable basket

Product codes

End fixing	Size	Length (ft)	No.2 (100 lbs)	No.3 (200 lbs)
 Loop		5	TZ2-LG-5FT	TZ3-LG-5FT
		10	TZ2-LG-10FT	TZ3-LG-10FT
		15	TZ2-LG-15FT	TZ3-LG-15FT
		20	TZ2-LG-20FT	TZ3-LG-20FT
		30	TZ2-LG-30FT	TZ3-LG-30FT
 1/4" Stud		5	TZ2-SQG-5FT	TZ3-SQG-5FT
		10	TZ2-SQG-10FT	TZ3-SQG-10FT
		15	TZ2-SQG-15FT	TZ3-SQG-15FT
		20	TZ2-SQG-20FT	TZ3-SQG-20FT
		30	TZ2-SQG-30FT	TZ3-SQG-30FT
 1/4" Stud (2" length)		5	TZ2-SQ2G-5FT	TZ3-SQ2G-5FT
		10	TZ2-SQ2G-10FT	TZ3-SQ2G-10FT
		15	TZ2-SQ2G-15FT	TZ3-SQ2G-15FT
		20	TZ2-SQ2G-20FT	TZ3-SQ2G-20FT
		30	TZ2-SQ2G-30FT	TZ3-SQ2G-30FT
 3/8" Stud		5		TZ3-S3/8G-5FT
		10		TZ3-S3/8G-10FT
		15		TZ3-S3/8G-15FT
		20		TZ3-S3/8G-20FT
		30		TZ3-S3/8G-30FT
 Toggle		5	TZ2-TG-5FT	TZ3-TG-5FT
		10	TZ2-TG-10FT	TZ3-TG-10FT
		15	TZ2-TG-15FT	TZ3-TG-15FT
		20	TZ2-TG-20FT	TZ3-TG-20FT
		30	TZ2-TG-30FT	TZ3-TG-30FT
 1/4" Toggle		5	TZ2-TQG-5FT	
		10	TZ2-TQG-10FT	
		15	TZ2-TQG-15FT	
		20	TZ2-TQG-20FT	
		30	TZ2-TQG-30FT	
 Hook		5	TZ2-HG-5FT	TZ3-HG-5FT
		10	TZ2-HG-10FT	TZ3-HG-10FT
		15	TZ2-HG-15FT	TZ3-HG-15FT
		20	TZ2-HG-20FT	TZ3-HG-20FT
		30	TZ2-HG-30FT	TZ3-HG-30FT
 Eyelet		5	TZ2-EYQG-5FT	TZ3-EYQG-5FT
		10	TZ2-EYQG-10FT	TZ3-EYQG-10FT
		15	TZ2-EYQG-15FT	TZ3-EYQG-15FT
		20	TZ2-EYQG-20FT	TZ3-EYQG-20FT
		30	TZ2-EYQG-30FT	TZ3-EYQG-30FT
 1/4" 90° Eyelet		5	TZ2-EY90QG-5FT	TZ3-EY90QG-5FT
		10	TZ2-EY90QG-10FT	TZ3-EY90QG-10FT
		15	TZ2-EY90QG-15FT	TZ3-EY90QG-15FT
		20	TZ2-EY90QG-20FT	TZ3-EY90QG-20FT
		30	TZ2-EY90QG-30FT	TZ3-EY90QG-30FT
 3/8" 90° Eyelet		5		TZ3-EY903/8G-5FT
		10		TZ3-EY903/8G-10FT
		15		TZ3-EY903/8G-15FT
		20		TZ3-EY903/8G-20FT
		30		TZ3-EY903/8G-30FT
 1/4" Barrel		5	TZ2-BQG-5FT	
		10	TZ2-BQG-10FT	
		15	TZ2-BQG-15FT	
		20	TZ2-BQG-20FT	
		30	TZ2-BQG-30FT	
 3/8" Barrel		5	TZ2-B3/8G-5FT	TZ3-B3/8G-5FT
		10	TZ2-B3/8G-10FT	TZ3-B3/8G-10FT
		15	TZ2-B3/8G-15FT	TZ3-B3/8G-15FT
		20	TZ2-B3/8G-20FT	TZ3-B3/8G-20FT
		30	TZ2-B3/8G-30FT	TZ3-B3/8G-30FT

Trapeze No.3 has a 3:1 safety factor. Trapeze No.2 has a 5:1 safety factor. Other lengths are available on request.



Rectangular duct with strut



Ladder tray



Oval duct



Duct trapeze

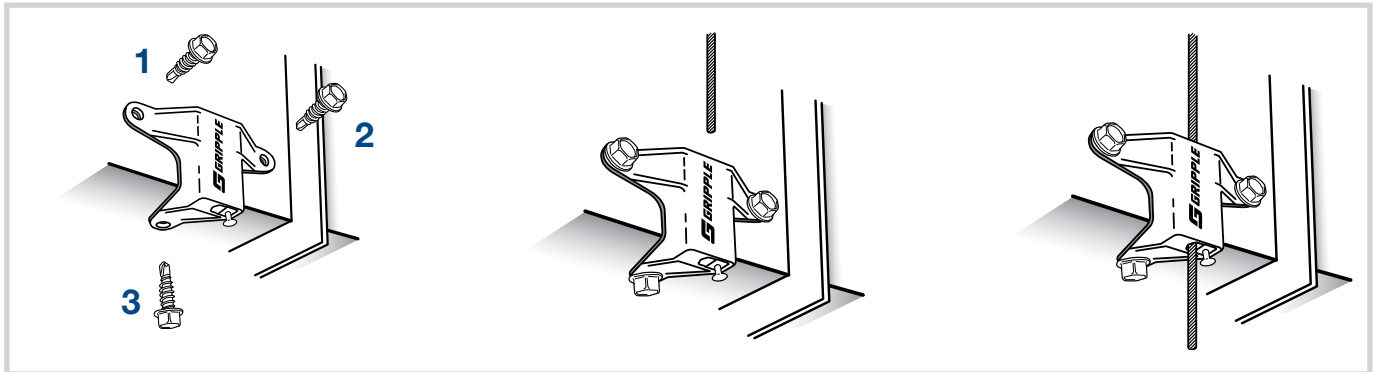
Single-channel Grapple with integral bracket, ideal for rapid suspension of rectangular duct, fan coil units, and other suitable services.

- 3 attachment points for screws
- Pin allows rapid adjustment
- Load rated at 100 lbs with a 5:1 safety factor
- Supplied as a ready-to-use kit
- Optional rubber pad available

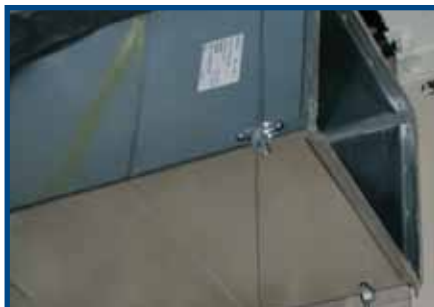
End fixing choices














Installation



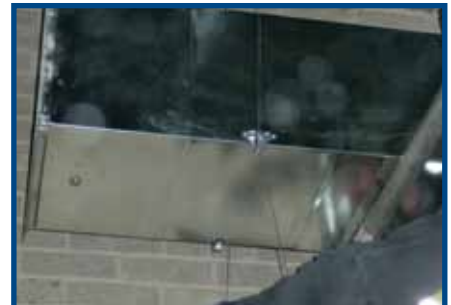
Screws are not supplied.

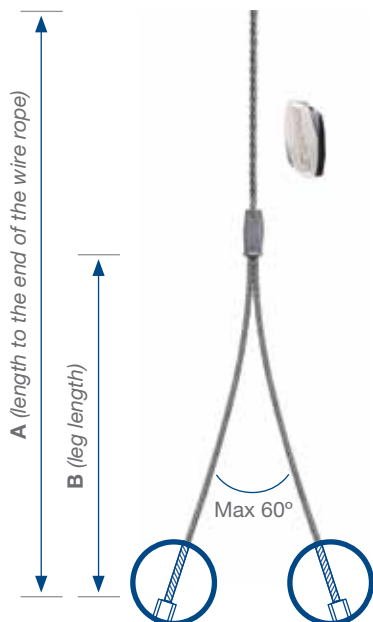


Product codes

End fixing	Size	Length (ft)	No.2 (100 lbs)
 Loop		5	DT2-LG-5FT
		10	DT2-LG-10FT
		15	DT2-LG-15FT
		20	DT2-LG-20FT
		30	DT2-LG-30FT
 1/4" Stud		5	DT2-SQG-5FT
		10	DT2-SQG-10FT
		15	DT2-SQG-15FT
		20	DT2-SQG-20FT
		30	DT2-SQG-30FT
 1/4" Stud (2" length)		5	DT2-SQ2G-5FT
		10	DT2-SQ2G-10FT
		15	DT2-SQ2G-15FT
		20	DT2-SQ2G-20FT
		30	DT2-SQ2G-30FT
 Toggle		5	DT2-TG-5FT
		10	DT2-TG-10FT
		15	DT2-TG-15FT
		20	DT2-TG-20FT
		30	DT2-TG-30FT
 1/4" Toggle		5	DT2-TQG-5FT
		10	DT2-TQG-10FT
		15	DT2-TQG-15FT
		20	DT2-TQG-20FT
		30	DT2-TQG-30FT
 Hook		5	DT2-HG-5FT
		10	DT2-HG-10FT
		15	DT2-HG-15FT
		20	DT2-HG-20FT
		30	DT2-HG-30FT
 Eyelet		5	DT2-EYQG-5FT
		10	DT2-EYQG-10FT
		15	DT2-EYQG-15FT
		20	DT2-EYQG-20FT
		30	DT2-EYQG-30FT
 1/4" 90° Eyelet		5	DT2-EY90QG-5FT
		10	DT2-EY90QG-10FT
		15	DT2-EY90QG-15FT
		20	DT2-EY90QG-20FT
		30	DT2-EY90QG-30FT
 1/4" Barrel		5	DT2-BQG-5FT
		10	DT2-BQG-10FT
		15	DT2-BQG-15FT
		20	DT2-BQG-20FT
		30	DT2-BQG-30FT
 3/8" Barrel		5	DT2-B3/8G-5FT
		10	DT2-B3/8G-10FT
		15	DT2-B3/8G-15FT
		20	DT2-B3/8G-20FT
		30	DT2-B3/8G-30FT
 Cladding hook		5	DT2-CHG-5FT
		10	DT2-CHG-10FT
		15	DT2-CHG-15FT
		20	DT2-CHG-20FT
		30	DT2-CHG-30FT

5:1 safety factor. Other lengths are available on request.





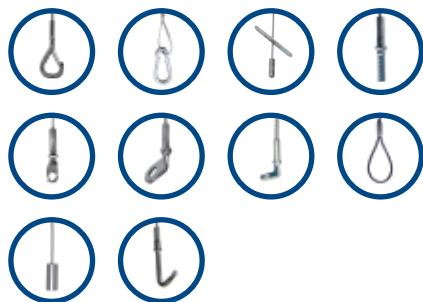
Y-fit hanger

Single hanger with double attachment points at service improves center of gravity.

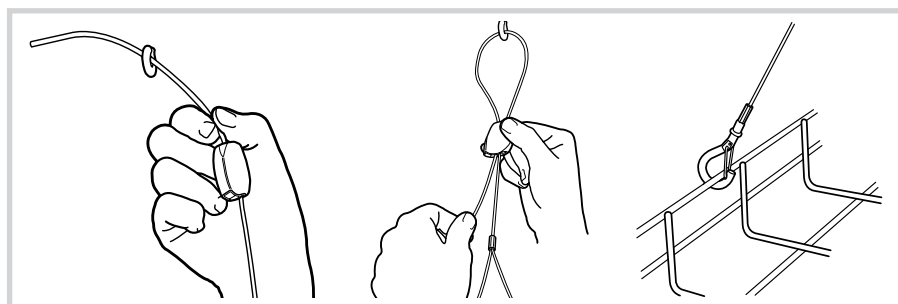
- Ideal for light fixtures, cable basket, and other suitable services
- Available in a range of end fixings, with a variety of leg lengths
- Final installation angle at the ferrule should not exceed 60°
- Hook version is ideal for use with the G-Bracket (page 70)

Height	Product recommendation
< 6.5 ft	Y-Fit
> 6.5 ft	Y-Fit accessory with a Standard Gripple HF (page 38)

End fixing choices



Installation



Basket



Cable tray with G-Bracket



Strip lighting

Product codes

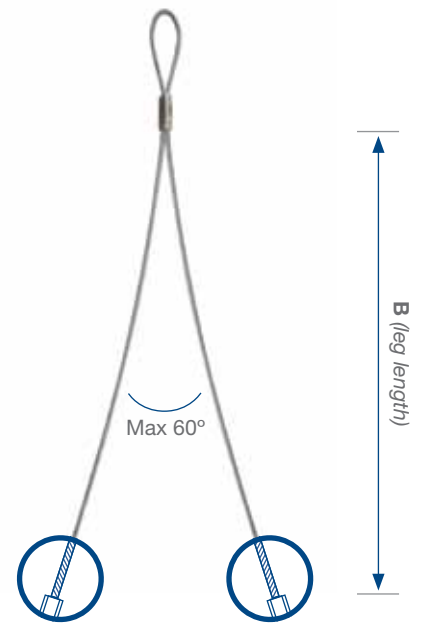
End fixing	Size	Length A (ft)	No.1 (25 lbs)			No.2 (100 lbs)			No.3 (200 lbs)		
			B = 6 in	B = 12 in	B = 18 in	B = 6 in	B = 12 in	B = 18 in	B = 6 in	B = 12 in	B = 18 in
Hook	5	5	YHF1-HG-5FT-150MM	YHF1-HG-5FT-300MM	YHF1-HG-5FT-460MM	YHF2-HG-5FT-150MM	YHF2-HG-5FT-300MM	YHF2-HG-5FT-460MM	YHF3-HG-5FT-150MM	YHF3-HG-5FT-300MM	YHF3-HG-5FT-460MM
		10	YHF1-HG-10FT-150MM	YHF1-HG-10FT-300MM	YHF1-HG-10FT-460MM	YHF2-HG-10FT-150MM	YHF2-HG-10FT-300MM	YHF2-HG-10FT-460MM	YHF3-HG-10FT-150MM	YHF3-HG-10FT-300MM	YHF3-HG-10FT-460MM
		15	YHF1-HG-15FT-150MM	YHF1-HG-15FT-300MM	YHF1-HG-15FT-460MM	YHF2-HG-15FT-150MM	YHF2-HG-15FT-300MM	YHF2-HG-15FT-460MM	YHF3-HG-15FT-150MM	YHF3-HG-15FT-300MM	YHF3-HG-15FT-460MM
Toggle	5	5	YHF1-TG-5FT-150MM	YHF1-TG-5FT-300MM	YHF1-TG-5FT-460MM	YHF2-TG-5FT-150MM	YHF2-TG-5FT-300MM	YHF2-TG-5FT-460MM	YHF3-TG-5FT-150MM	YHF3-TG-5FT-300MM	YHF3-TG-5FT-460MM
		10	YHF1-TG-10FT-150MM	YHF1-TG-10FT-300MM	YHF1-TG-10FT-460MM	YHF2-TG-10FT-150MM	YHF2-TG-10FT-300MM	YHF2-TG-10FT-460MM	YHF3-TG-10FT-150MM	YHF3-TG-10FT-300MM	YHF3-TG-10FT-460MM
		15	YHF1-TG-15FT-150MM	YHF1-TG-15FT-300MM	YHF1-TG-15FT-460MM	YHF2-TG-15FT-150MM	YHF2-TG-15FT-300MM	YHF2-TG-15FT-460MM	YHF3-TG-15FT-150MM	YHF3-TG-15FT-300MM	YHF3-TG-15FT-460MM
¼" Toggle	5	5				YHF2-TQG-5FT-150MM	YHF2-TQG-5FT-300MM	YHF2-TQG-5FT-460MM			
		10				YHF2-TQG-10FT-150MM	YHF2-TQG-10FT-300MM	YHF2-TQG-10FT-460MM			
		15				YHF2-TQG-15FT-150MM	YHF2-TQG-15FT-300MM	YHF2-TQG-15FT-460MM			

5:1 safety factor. Other lengths and end fixing configurations are available on request.

Y-Fit accessory

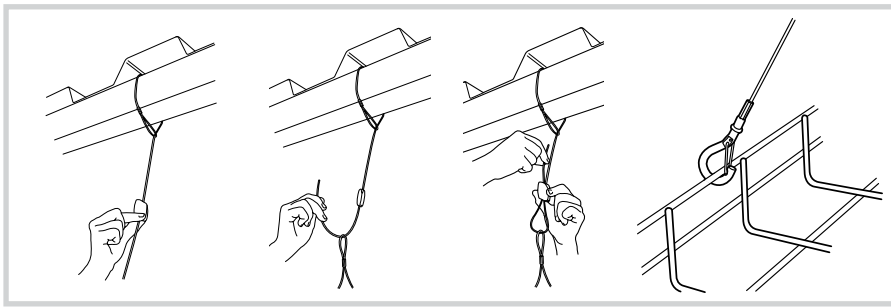
Accessory version of a Y-Fit to be used in conjunction with a Standard Gripple HF (page 38).

- Ideal for long drops; allows flexibility of end fixings at top and bottom of complete assembly
- Ideal for light fixtures, cable basket, and other suitable services
- Available in a range of end fixings, with a variety of leg lengths
- Final installation angle at the ferrule should not exceed 60°
- Hook version is ideal for use with the G-Bracket (page 70)

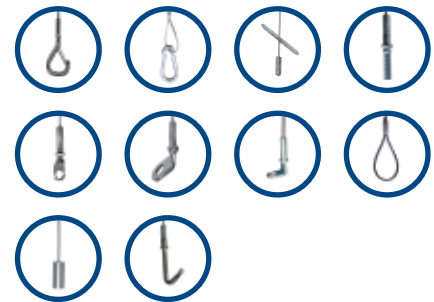


Height	Product recommendation
< 6.5 ft	Y-Fit
> 6.5 ft	Y-Fit Accessory with a Standard Gripple HF (page 38)

Installation



End fixing choices



Cable basket



Gas radiant heaters



Strip lighting

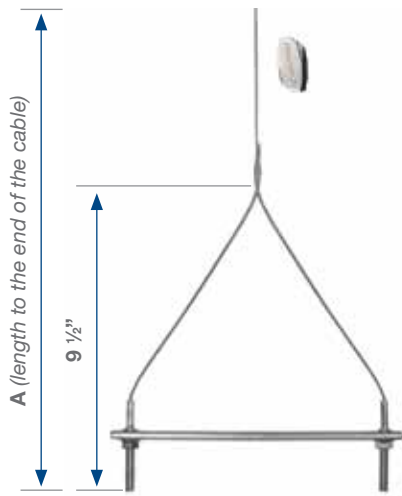


Ideal for use with a G-Bracket (page 70)

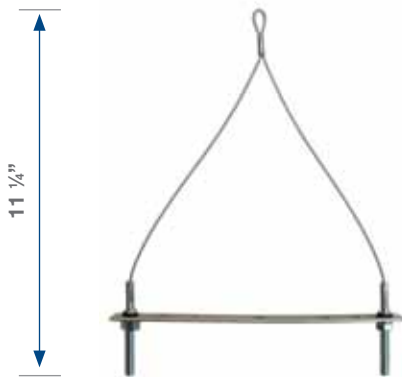
Product codes

End Fixing	Size	No.1 (25 lbs)			No.2 (100 lbs)			No.3 (200 lbs)		
		B = 6 in	B = 12 in	B = 18 in	B = 6 in	B = 12 in	B = 18 in	B = 6 in	B = 12 in	B = 18 in
Hook		AY1-HG-150MM	AY1-HG-300MM	AY1-HG-460MM	AY2-HG-150MM	AY2-HG-300MM	AY2-HG-460MM	AY3-HG-150MM	AY3-HG-300MM	AY3-HG-460MM
Toggle		AY1-TG-150MM	AY1-TG-300MM	AY1-TG-460MM	AY2-TG-150MM	AY2-TG-300MM	AY2-TG-460MM	AY3-TG-150MM	AY3-TG-300MM	AY3-TG-460MM
¼" Toggle					AY2-TQG-150MM	AY2-TQG-300MM	AY2-TQG-460MM			

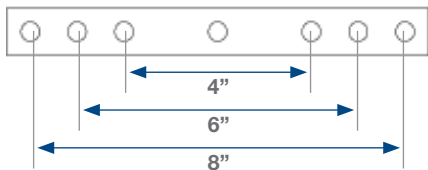
5:1 safety factor. Other lengths and end fixing configurations are available on request.



Y-Pipe



Y-Pipe accessory



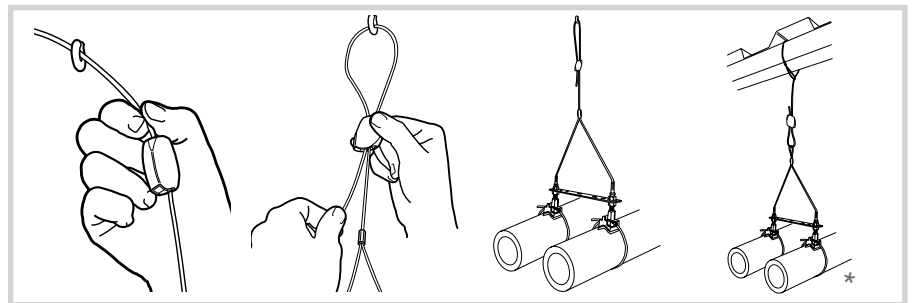
Y-Pipe and accessory

Provides a quick and easy way to suspend pipework or conduit without the need for traditional supports and bearers.

- One anchor point means 50% less drilling and gives an improved center of gravity
- Designed to suspend twin runs of insulated pipe, diameter (Ø) 3/8" to 2 1/2"
- The supporting plate creates a choice of spacing for pipes to be fitted at 4, 6 and 8 inch centers
- Eliminates on-site cutting
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Ideal for use with the Universal clamp (page 48)

Height	Product recommendation
< 6.5 ft	Y-Pipe
> 6.5 ft	Y-Pipe accessory with a Standard Gripple HF (page 38)

Installation



* Y-Pipe accessory installation with a Loop end fixing in a choke knot.



Steel pipes



Steel pipes and Universal clamp



Plastic pipes

Product codes

Type	Size	Length A (ft)	No.3 (200 lbs)
Y-Pipe		5	YPHF3-S3/8G-5FT-8IN
		10	YPHF3-S3/8G-10FT-8IN
		15	YPHF3-S3/8G-15FT-8IN
Y-Pipe accessory		-	AY3-S3/8G-8IN

5:1 safety factor. Other lengths and configurations are available on request.



Stainless steel

Used to suspend a variety of mechanical and electrical services in the food industry and high humidity environments.

- Stainless steel body and springs are corrosion resistant and long-lasting
- Ceramic wedges for extra strength and corrosion resistance
- Aesthetically discreet and lightweight
- Available in two load rated sizes up to 200 lbs
- Supplied as a ready-to-use kit

End fixing choices



Light fixture



Air conditioning unit



Rectangular ducting

Product codes

End fixing	Size	Material grade	Length (ft)	No.2 (100 lbs)	No.3 (200 lbs)
Loop		316	5	HF2-LS-5FT	HF3-LS-5FT
			10	HF2-LS-10FT	HF3-LS-10FT
			15	HF2-LS-15FT	HF3-LS-15FT
			20	HF2-LS-20FT	HF3-LS-20FT
			30	HF2-LS-30FT	HF3-LS-30FT
1/4" Stud		304	5	HF2-SQS-5FT	HF3-SQS-5FT
			10	HF2-SQS-10FT	HF3-SQS-10FT
			15	HF2-SQS-15FT	HF3-SQS-15FT
			20	HF2-SQS-20FT	HF3-SQS-20FT
			30	HF2-SQS-30FT	HF3-SQS-30FT
Toggle		304	5	HF2-TS-5FT	
			10	HF2-TS-10FT	
			15	HF2-TS-15FT	
			20	HF2-TS-20FT	
			30	HF2-TS-30FT	
Hook*		304	5	HF2-HS-5FT	
			10	HF2-HS-10FT	
			15	HF2-HS-15FT	
			20	HF2-HS-20FT	
			30	HF2-HS-30FT	

5:1 safety factor - *3:1 safety factor. Other lengths are available on request.



Universal clamp for pipework

Introducing the new Universal clamp for hanging all types of pipework within mechanical and plumbing services.

- Universal - for pipe sizes $\frac{3}{8}$ " to 2 $\frac{1}{2}$ " diameter
- Up to 6 times faster than traditional methods
- Replaces more than 11 different pipe clamp sizes
- Ready to use, retractable sleeve pre-fitted to wire rope
- Improved insulation against vibration
- No tools are required for installation
- Easy site storage, reduces waste, no risk of losing screws on site
- Simplifies take-off process calculation
- Lloyd's certified
- Ideal for use with the Y-Pipe (page 46)



Steel pipes heating

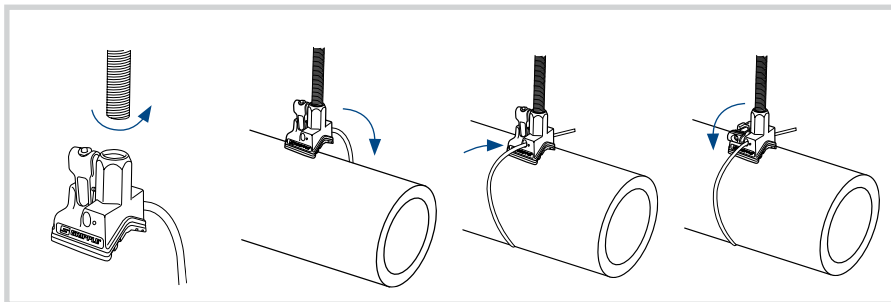


Steel pipes heating



Copper pipes

Installation



Product codes

Type	Size	No.2 (100 lbs)
Without insulation (L = 14 in)		GC2-I-14IN
With rubber pad only (L = 14 in)		GC2-PAD-I-14IN
Fully insulated (L = 14 in)		GC2-INS-I-14IN

5:1 safety factor. Other lengths are available on request.

Specifications: Universal clamp

- Working temperature: -40°F to +230°F
- Dual connection thread: $\text{Ø } \frac{1}{4}$ " and $\frac{3}{8}$ "
- Reduction in dB (g): 10.2
- Reduction in peak vibration: 69.3%

Retractable sleeve

- Polyamide 66 (Nylon)
- Retracts up to 8 times its normal length
- Smoke toxicity conforms to CEI 754-1 and CEI 754-2
- Resists chemical solvents

Rubber pad

- Material: EPDM
- Hardness: 60 to 68 Shore A

Wall clamp

Introducing the new Gripple Wall clamp, an innovative method for securing all types of pipework securely to the wall.

- Accommodates all types of pipework and a range of pipe diameters
- Faster than traditional methods of installation
- Different orientations – Can be fitted both horizontally and vertically
- Designed to look neat with a clean professional finish
- Easy handling – Locking mechanism for easy and fast fixing
- Easy site storage – No need to stock several sizes



Heating pipes

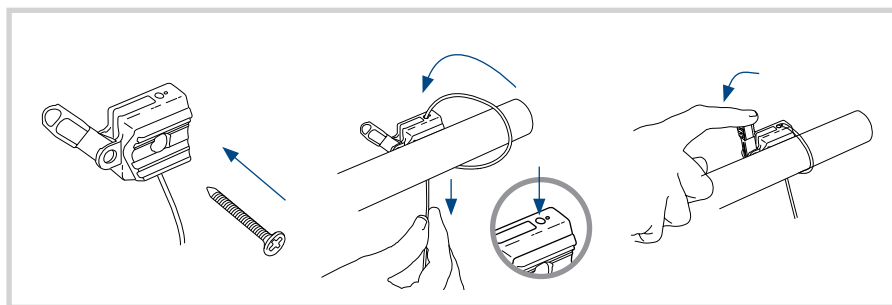


Electrical conduit



Waste water distribution pipes

Installation



Product codes

Type	Size	No.2 (100 lbs)
with pad and 14" cable with retractable sleeve		GW2-INS-14IN

5:1 safety factor. Other lengths are available on request.

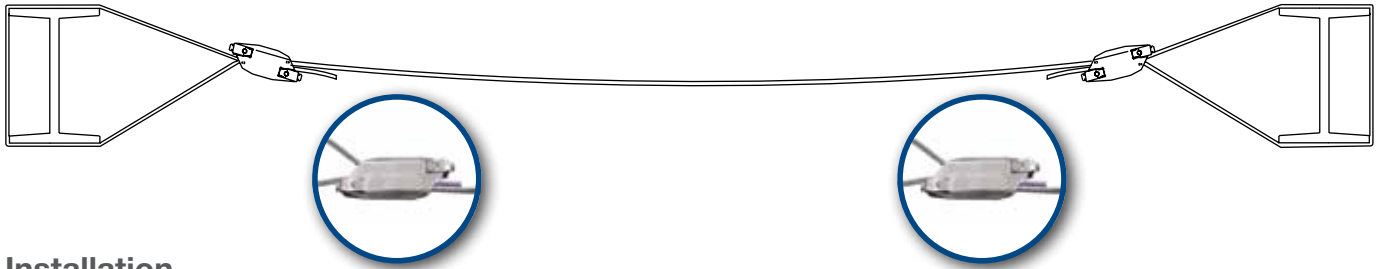
Specifications: Wall clamp

- Load rating: at 100 lbs with a safety factor of 5:1
- Working temperature: - 40°F to +230°F
- Hole size: $\frac{7}{32}$ "
- Length of the lever: $\frac{3}{16}$ "
- Lever travel: 90 degrees

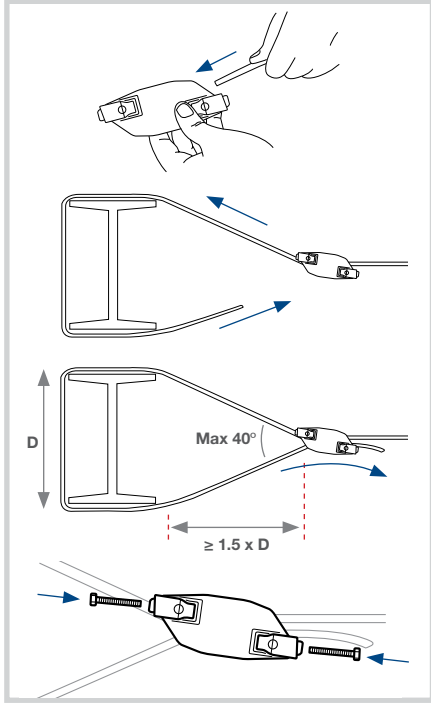
Rubber pad

- Material: EPDM
- Hardness: 60 to 68 Shore A

1/8" and 1/4" Cable Strut (indoor)



Installation



Cable Strut kits create secure, overhead spans by running high strength cables horizontally between two fixed points. Ideal for suspending Lighting, Signage, HVAC, Electrical and Mechanical.

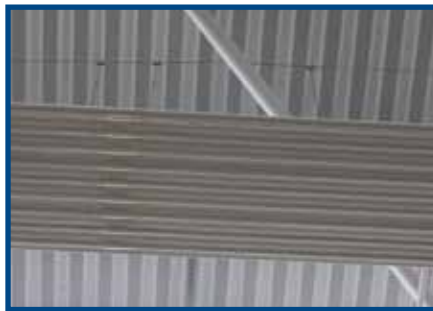
- Up to 6 times faster than strut and brackets
- Eliminates cutting strut
- Reduces time spent working at heights
- More aesthetic and lighter than strut
- Easy to store and handle on-site
- More environmentally friendly, CO₂ reduction
- 1/8" Light Duty size, and 1/4" Heavy Duty size
- For use with the C-Clip hanger (page 51)



Use our complimentary services to determine the appropriate sag & load calculations for your project.



Lighting



Radiant panel



Ductwork

Product codes

Length (ft)	Size	1/8" (SWL 70 lbs)	1/4" (SWL 220 lbs)
10		CTI-1/8-10FT	-
15		CTI-1/8-15FT	CTI-1/4-15FT
20		CTI-1/8-20FT	-
25		-	CTI-1/4-25FT
50		-	CTI-1/4-50FT
75		-	CTI-1/4-75FT
100		-	CTI-1/4-100FT

Kit comprises length of cable, adjustment key, and two Lockable Gripple fasteners (1/4" kit) or two standard Gripple fasteners (1/8" kit). 5:1 safety factor. Other cable lengths are available on request.

1/8" and 1/4" C-Clip (indoor)

An innovative, twist-on device for hanging anywhere along horizontal cable strut.

- Up to 10 times faster to install
- Allows horizontal and vertical adjustment
- Cams lock solidly in place even at angles up to 60°
- Ready-to-use kit
- Can be fitted retrospectively
- No tools needed
- Use to suspend any No.2 Gripple cable hanger
- Available in two sizes up to 100 lbs SWL, with a 5:1 safety factor
- For use with the Cable Strut system (page 50)

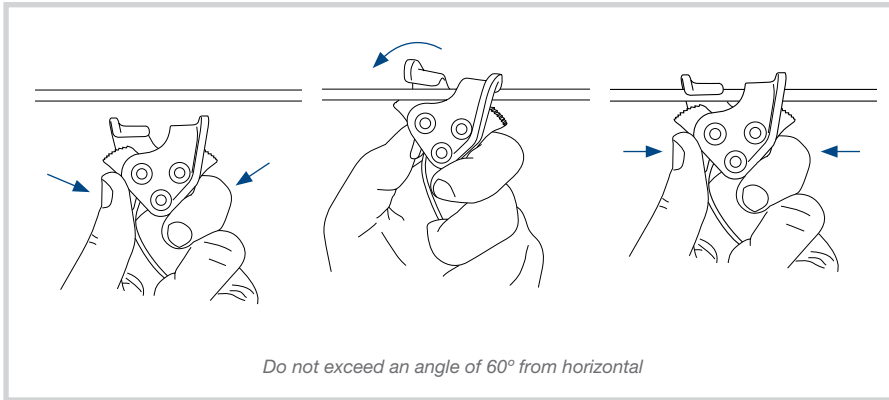


1/8" C-Clip for 1/8" Cable Strut



1/4" C-Clip for 1/4" Cable Strut

Installation



Steel pipes



Cable tray



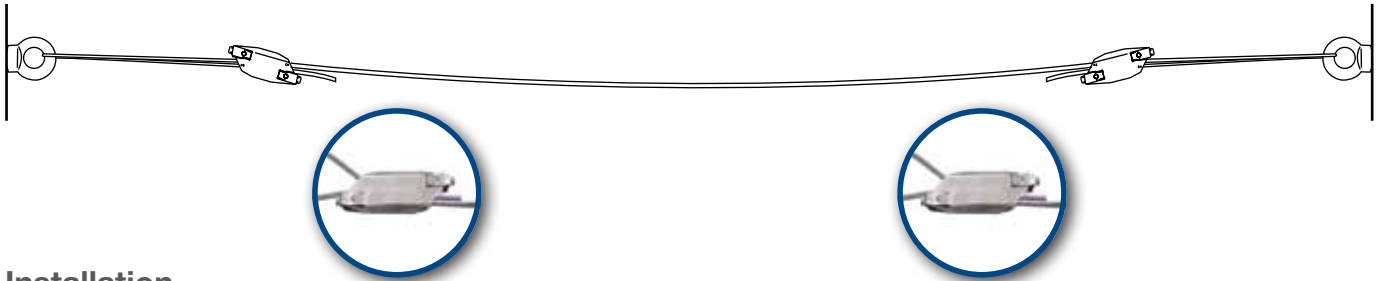
Light fixture

Product codes

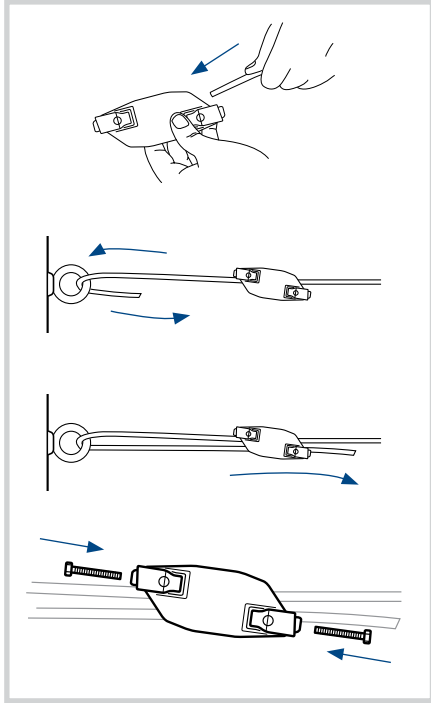
Length (ft)	Size	1/8" (SWL 35 lbs)	1/4" (SWL 100 lbs)
5		HF2-CC-1/8-5FT	HF2-CC-1/4-5FT
10		HF2-CC-1/8-10FT	HF2-CC-1/4-10FT
15		HF2-CC-1/8-15FT	HF2-CC-1/4-15FT
20		HF2-CC-1/8-20FT	HF2-CC-1/4-20FT
30		HF2-CC-1/8-30FT	HF2-CC-1/4-30FT

Kit comprises a length of cable pre-attached to the C-Clip and a Gripple fastener. 5:1 safety factor. Other cable lengths are available upon request.

1/4" Catenary (outdoor)



Installation

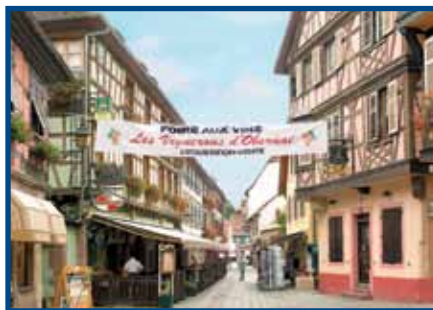


Catenary kits create secure, overhead spans by running high strength cables horizontally between two fixed points. Ideal for suspending advertising banners, public lighting and Christmas decorations.

- Quick installation replacing turnbuckle and wire strainers
- Suitable for use in outdoor dynamic installations
- No preparation required
- Reduces time spent working at heights
- Aesthetic
- Easy to store and handle
- Load rated at horizontal at 220 lbs SWL, with a 5:1 safety factor
- For use with the 1/4" C-Clip outdoor (page 53)



Christmas decorations



Advertising banners



Christmas decorations

Product codes

Length (ft)	Size	1/4" (SWL 220 lbs)
15		CTO-1/4-15FT
25		CTO-1/4-25FT
50		CTO-1/4-50FT
75		CTO-1/4-75FT
100		CTO-1/4-100FT

Kit comprises length of 1/4" cable and two 1/4" Lockable Gripple fasteners. 5:1 safety factor. Other cable lengths are available on request.

1/4" C-Clip (outdoor)

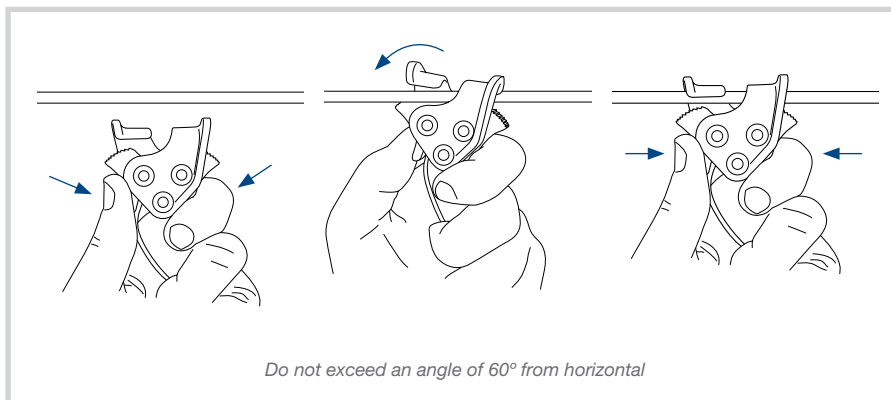
An innovative, twist-on device for hanging at any point on a 1/4" catenary cable.

- Installs up to 10 times faster than traditional methods
- Allows horizontal and vertical adjustment
- Cams lock solidly in place on 1/4" cable from horizontal to 60°
- Ready-to-use kit, no tools needed
- Can be fitted retrospectively
- Provides 100 lbs SWL, with a 5:1 safety factor
- Accessory C-Clip is ideal for attaching a decoration, when no adjustment is required
- For use with the 1/4" outdoor Catenary kit (page 52)



1/4" C-Clip for 1/4" cable

Installation



1/4" C-Clip Accessory for 1/4" cable



Christmas decorations



Shopping mall decorations



Christmas decorations

Product codes

Length (ft)	Size	1/4" (SWL 100 lbs)
5		LK2-CC-1/4-5FT
10		LK2-CC-1/4-10FT
15		LK2-CC-1/4-15FT
20		LK2-CC-1/4-20FT
30		LK2-CC-1/4-30FT
1/4" C-Clip Accessory		CC-1/4-8IN

Kit comprises a length of cable pre-attached to the C-Clip and a Gripper Lockable fastener. 5:1 safety factor. Other cable lengths are available upon request.





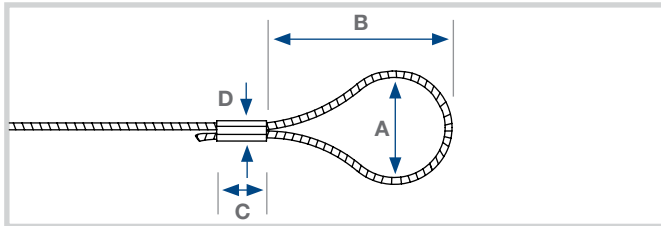
End fixing contents

Loop, Stud	<i>page 56</i>
Toggle, End stop	<i>page 57</i>
Hook, Cladding hook	<i>page 58</i>
Barrel, Magnetic pad	<i>page 59</i>
Eyelet, 45° Eyelet	<i>page 60</i>
90° ¼ Eyelet, 90° ⅜ Eyelet	<i>page 61</i>
90° ½ Eyelet, Karabiner	<i>page 62</i>
Ring anchor, Ceiling anchor	<i>page 63</i>



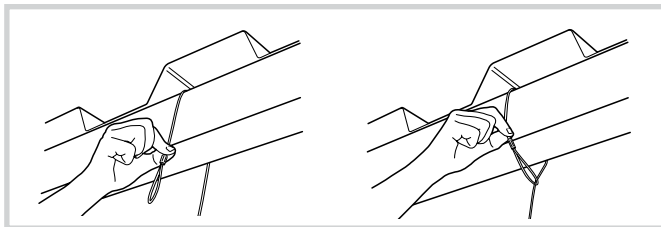
Loop

- Ideal for choking around bar joists, strut, purlins, beams, roof trusses and other accessible building features
- Available up to 715 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in lengths from 5 - 30 ft
- Other lengths are available on request
- Available in Stainless steel (page 47)



Size	A (~ in)	B (~ in)	C (in)	D (in)
No.1 (25 lbs)	1 3/16"	2 3/8"	3/8"	1/4"
No.2 (100 lbs)	1 3/16"	2 3/8"	1/2"	5/16"
No.3 (200 lbs)	1 3/16"	2 3/8"	5/8"	3/8"
No.4 (495 lbs)	1 3/4"	3 1/4"	1"	5/8"
No.5 (715 lbs)	1 3/4"	3 1/2"	1 1/16"	3/4"

Install end fixings in accordance with manufacturers' specifications.



Related products



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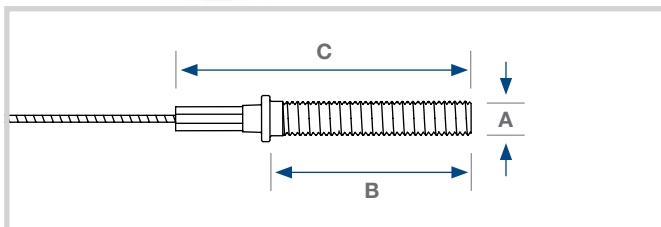


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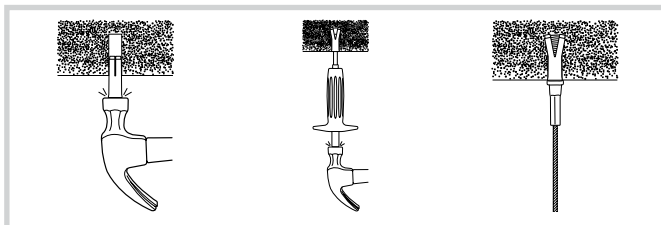
Stud

- Ideal for anchoring into concrete structures, metal decking, metal brackets using nuts, and clamps and clevis hangers.
- 1/4" and 3/8" sizes available
- Available up to 495 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths from 5 - 30 ft
- Other lengths are available on request
- Available in Stainless steel (page 47)



Size	A (in)	B (in)	C (in)
No.1 (25 lbs)	1/4"	1"	2"
	3/8"	1"	2"
No.2 (100 lbs)	1/4"	2"	4"
	3/8"	1 7/8"	2 3/4"
No.3 (200 lbs)	1/4"	1"	2"
	3/8"	2"	4"
No.4 (495 lbs)	3/8"	1 3/4"	3 3/4"
	1/2"	1 3/4"	3 3/4"

Install end fixings in accordance with manufacturers' specifications.



Related products



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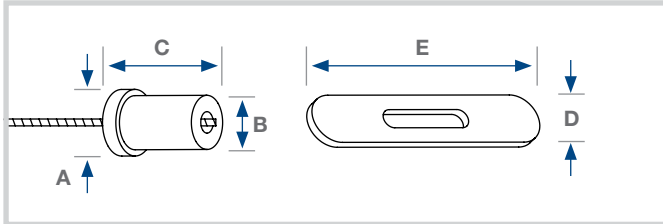


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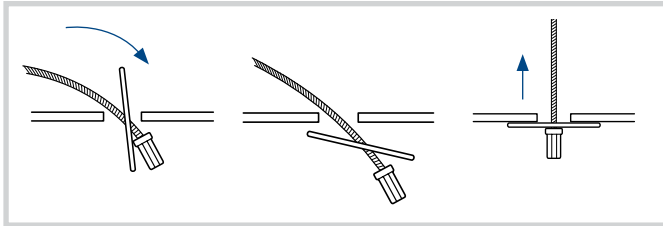
Toggle

- Ideal for light fixtures, metal decking, and other pre-drilled structures
- Available up to 495 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths of 5 - 30 ft
- Other lengths are available on request
- Available in Stainless steel (page 47)



Size	Hole size Ø A (in)	B (in)	C (in)	D (in)	E (in)
No.1 (25 lbs)	5/16"	3/32"	5/16"	7/32"	1 9/16"
No.2 (100 lbs)	5/16"	1/4"	15/32"	5/16"	1 9/16"
	1/4"	1/4"	15/32"	1/4"	1 9/16"
No.3 (200 lbs)	3/8"	1/4"	3/4"	3/8"	2"
No.4 (495 lbs)	1/2"	1 1/32"	1 3/16"	1 9/32"	2 17/32"

Install end fixings in accordance with manufacturers' specifications.



Related products



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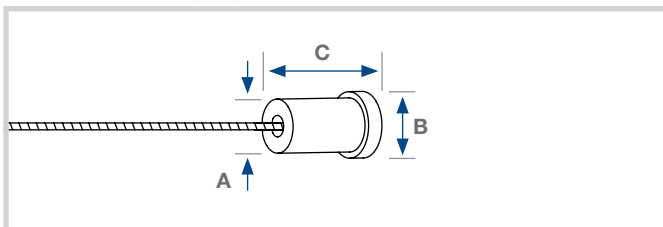


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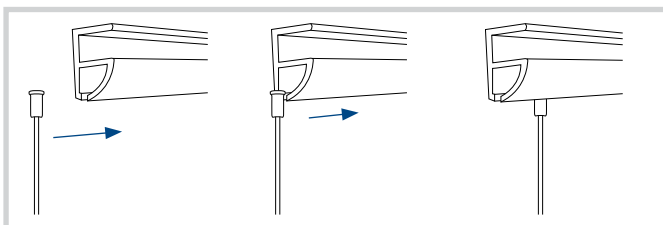
End stop

- Ideal for lighting channels, track, and other channel fixtures
- Easy slide-in fixing method
- Available up to 495 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths of 5 - 30 ft
- Other lengths are available on request



Size	A (in)	B (in)	C (in)
No.1 (25 lbs)	5/32"	1/4"	5/16"
No.2 (100 lbs)	1/4"	5/16"	15/32"
No.3 (200 lbs)	1/4"	3/8"	3/4"
No.4 (495 lbs)	1 1/32"	1/2"	1 3/16"

Install end fixings in accordance with manufacturers' specifications.



Related products



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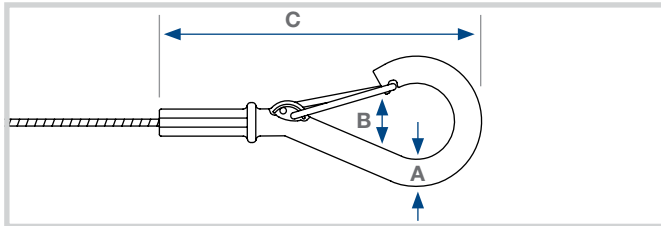


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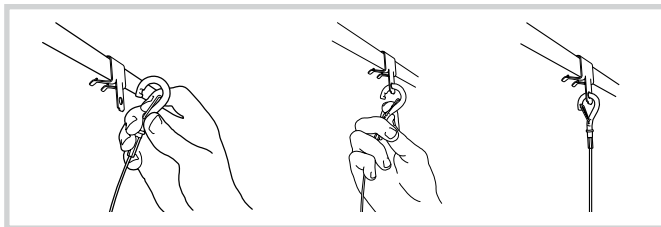
Hook

- Quick and easy attachment to beam and purlin clips, cable basket and tray, light fixtures, or any service or clip with a 1/4" hole
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths from 5 - 30 ft
- Other lengths are available on request



Size		A (in)	B (in)	C (in)	
No.1 (25 lbs)	Small	3/16"	1/4"	2 3/16"	
	Large	1/4"	5/8"	3"	
No.2 (100 lbs)		Large	1/4"	5/8"	3"
No.3 (200 lbs)		Large	1/4"	5/8"	3"

Install end fixings in accordance with manufacturers' specifications.



Related products



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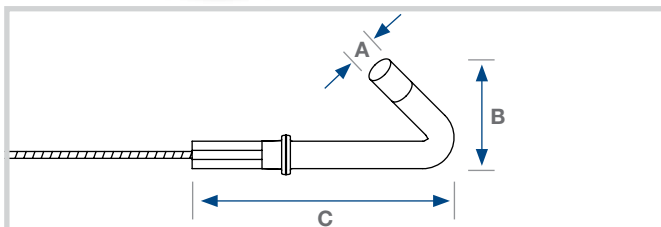
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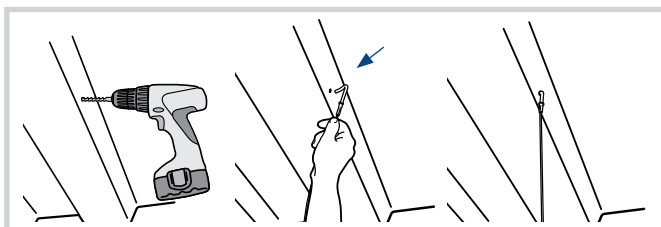
Cladding hook

- Ideal for fastening through metal decking roof structures
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Break load will be affected by the thickness of the metal deck
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths of 5-30 ft
- Other lengths are available on request



Size	Ø A (in)	B (in)	C (in)
No.1 (25 lbs)	1/4"	15/16"	2 3/8"
No.2 (100 lbs)	1/4"	15/16"	2 3/8"
No.3 (200 lbs)	1/4"	1"	2 3/8"

5:1 safety factor based on 3/4" thick metal deck. Install end fixings in accordance with manufacturers' specifications.



Related products



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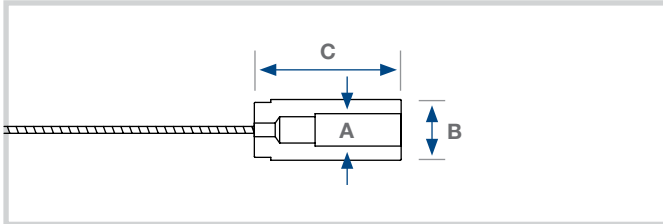
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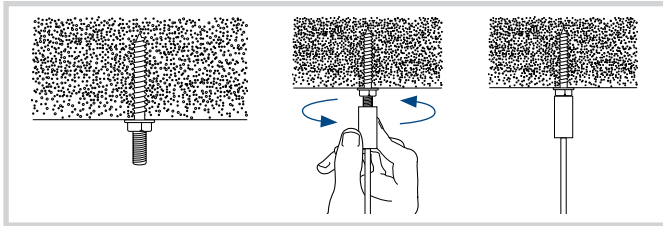
Barrel

- Ideal for use on signage and light fixtures
- Aesthetic fixing for use with any 1/4" or 3/8" male thread product
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths of 5 - 30 ft
- Other lengths are available upon request



Size	A (in)	B (in)	C (in)
No.1 (25 lbs)	1/4"	7/16"	1 3/4"
No.2 (100 lbs)	3/8"	1/2"	1 3/4"
No.3 (200 lbs)	3/8"	1/2"	1 3/4"

Install end fixings in accordance with manufacturers' specifications



Related products



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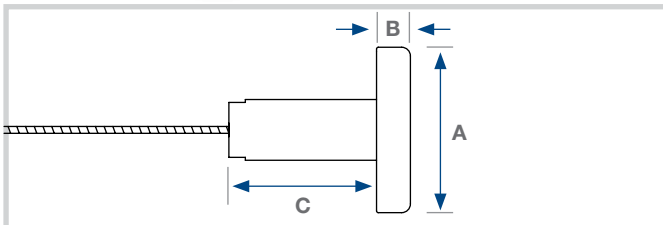


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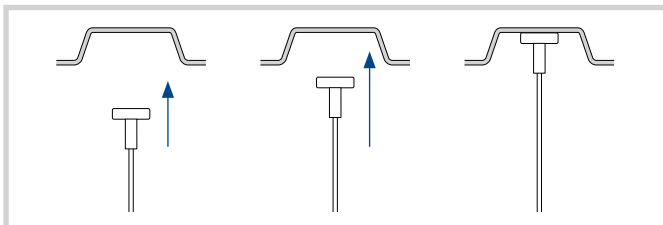
Magnetic pad

- Ideal for hanging signage and fixing services to magnetic metal surfaces
- Not for use on aluminum, brass or non-metallic products
- Load is affected by the metal thickness and surface condition
- Comes as a ready-to-use kit with No.1 cable and Gripple fastener
- Available in cable lengths of 5 - 30 ft
- Other lengths are available on request



Metal thickness	Max load rating 2:1 safety factor	A (in)	B (in)	C (in)
3/64"	7 lbs	1"	5/16"	1 3/4"
5/64"	13 lbs	1"	5/16"	1 3/4"
1/8"	18 lbs	1"	5/16"	1 3/4"

Install end fixings in accordance with manufacturers' specifications



Related products



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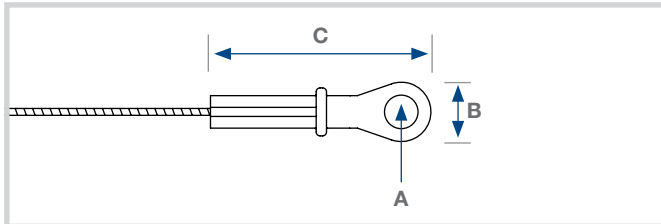


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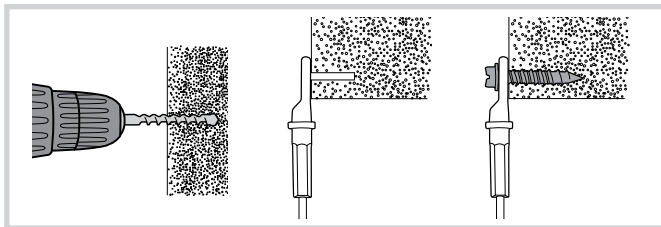
Eyelet

- For fixing sideways into wood beams, speakers or visual display, light fixtures, or other applications requiring bolting to brackets or fixtures
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths of 5 - 30 ft
- Other lengths are available on request



Size	A (in) – Fastener size	B (in)	C (in)
No.1 (25 lbs)	1/4"	3/8"	1 3/4"
No.2 (100 lbs)	1/4"	3/8"	1 3/4"
No.3 (200 lbs)	1/4"	3/8"	1 3/4"

Install end fixings in accordance with manufacturers' specifications



Related products



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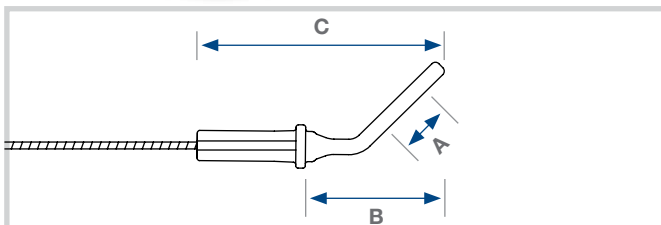
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45° Eyelet

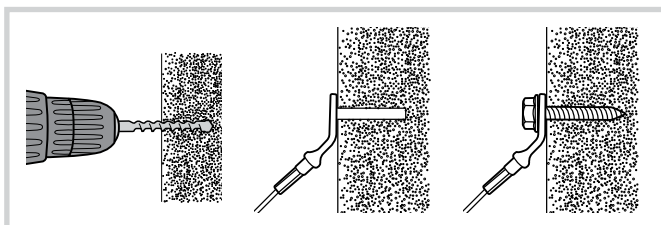
- Ideal for sway bracing services at a 45° angle from concrete, steel or wood, using appropriate fasteners (not for seismic bracing*)
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Standard cable lengths of 5 - 30 ft
- Other lengths are available on request

** For seismic bracing applications, refer to Gripple Seismic range*



Size	A (in)	B (in)	C (in)
No.2 (100 lbs)	3/8"	1 1/8"	7/8"
No.3 (200 lbs)	3/8"	1 1/8"	7/8"

Install end fixings in accordance with manufacturers' specifications



Related products



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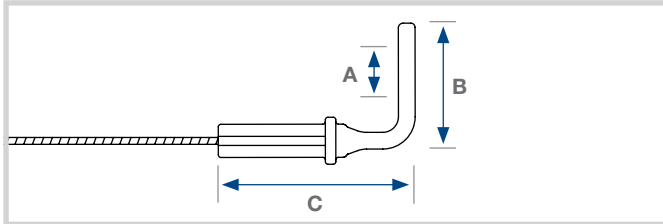


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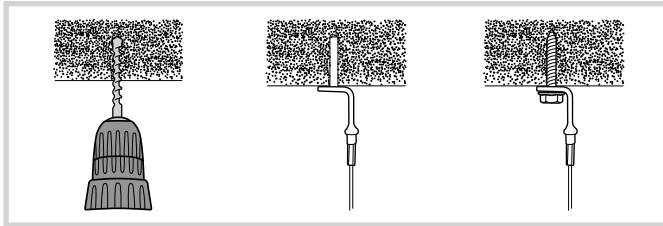
90° 1/4" Eyelet

- Ideal for shot firing into concrete or steel
- Easily attached to a variety of materials using screws, bolts, or gas or power actuated tools
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Standard cable lengths of 5 - 30 ft
- Other lengths are available on request



Size	A (in) – Fastener size	B (in)	C (in)
No.1 (25 lbs)	1/4"	1"	1 1/2"
No.2 (100 lbs)	1/4"	1"	1 1/2"
No.3 (200 lbs)	1/4"	1"	1 1/2"

Install end fixings in accordance with manufacturers' specifications



Related products



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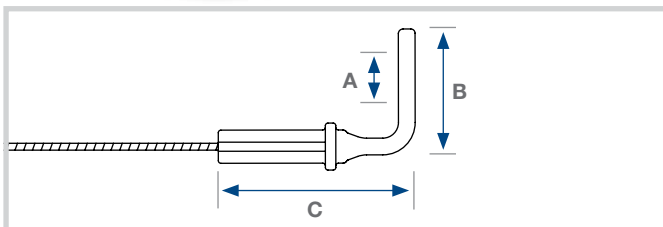


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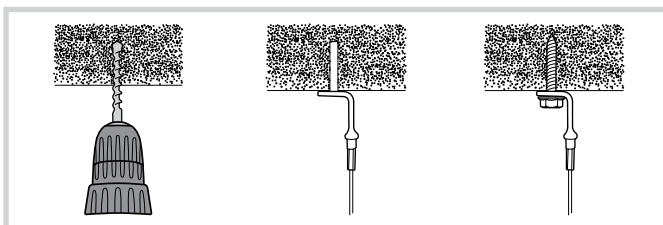
90° 3/8" Eyelet

- Ideal for shot firing into concrete or steel
- Easily attached to a variety of materials using screws, bolts, or gas or power actuated tools
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Standard cable lengths of 5 - 30 ft
- Other lengths are available on request



Size	A (in) – Fastener size	B (in)	C (in)
No.3 (200 lbs)	3/8"	1 3/4"	1 5/8"

Install end fixings in accordance with manufacturers' specifications



Related products



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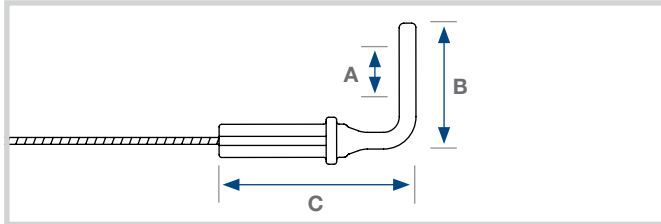


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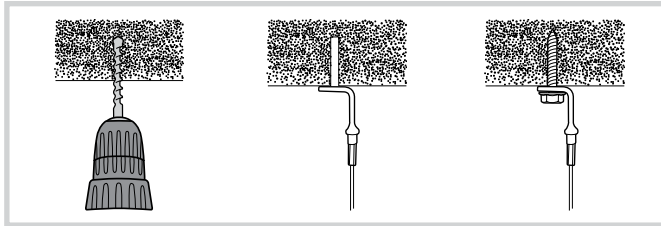
90° 1/2" Eyelet

- Ideal for shot firing into concrete or steel
- Easily attached to a variety of materials using screws, bolts, or gas or power actuated tools
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Standard cable lengths of 5 - 30 ft
- Other lengths are available on request



Size	A (in) – Fastener size	B (in)	C (in)
No.3 (200 lbs)	1/2"	1 5/8"	1 1/2"

Install end fixings in accordance with manufacturers' specifications



Related products



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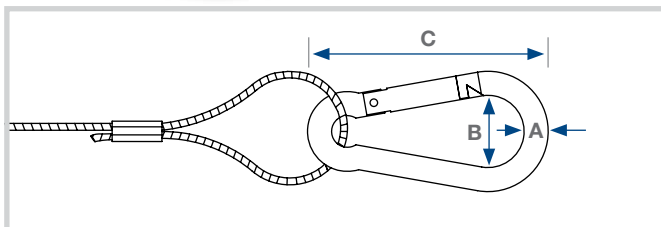


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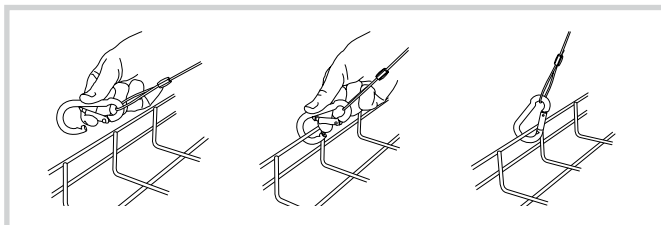
Karabiner

- Provides 3/8" clearance
- Available up to 200 lbs SWL, with a 5:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths of 5 - 30 ft
- Other lengths are available on request
- Available in Stainless steel (page 47)



Size	A (in)	B (in)	C (in)
No.1 (25 lbs)	1/4"	3/8"	2 3/8"
No.2 (100 lbs)	1/4"	3/8"	2 3/8"
No.3 (200 lbs)	5/16"	3/8"	3 1/8"

Install end fixings in accordance with manufacturers' specifications



Related products



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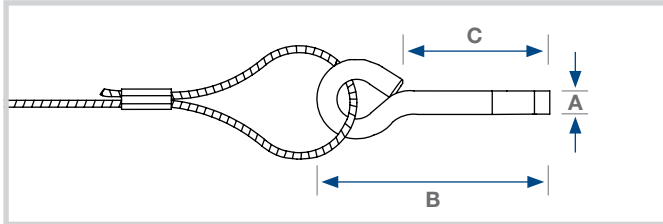


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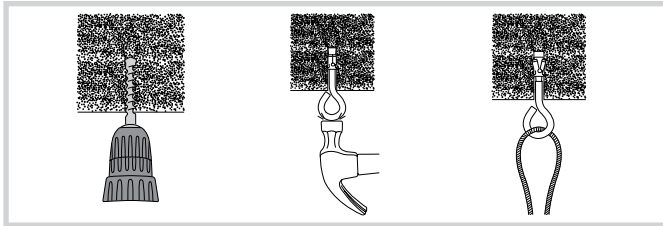
Ring anchor

- Ideal for fixing into concrete and cracked concrete
- Shallow anchorage depth of 1"
- Available up to 100 lbs SWL, with a 3:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in cable lengths of 5 - 30 ft
- Other lengths are available on request



Size	A (in)	B (in)	C (in)
No.1 (25 lbs)	1/4"	2 1/8"	1 3/8"
No.2 (100 lbs)	1/4"	2 1/8"	1 3/8"

Install end fixings in accordance with manufacturers' specifications



Related products



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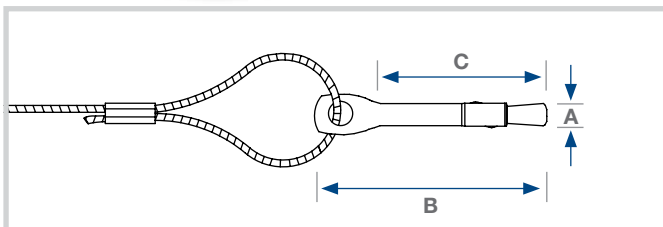


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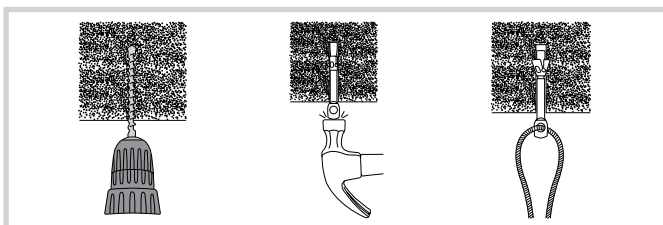
Ceiling anchor

- Ideal for fixing hangers into concrete ceilings
- Knock into a pre-drilled hole, pull with a claw hammer to set
- Available up to 100 lbs SWL, with a 3:1 safety factor
- Comes as a ready-to-use kit with cable and Gripple fastener
- Available in lengths from 5 - 30 ft
- Other lengths are available on request



Size	A (in)	B (in)	C (in)
No.1 (25 lbs)	1/4"	2 9/16"	2"
No.2 (100 lbs)	1/4"	2 9/16"	2"

Install end fixings in accordance with manufacturers' specifications



Related products



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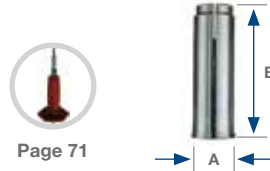
Accessories contents

Anchoring solutions: Concrete	<i>page 66</i>
Concrete, cracked concrete and wood	<i>page 67</i>
Beams and purlins	<i>page 68</i>
Adaptors and attachments	<i>page 69</i>
Brackets and fasteners	<i>page 70</i>
Tools	<i>page 71</i>
Finishing products and accessories	<i>page 72</i>

Anchoring solutions: Concrete

Drop-in anchor

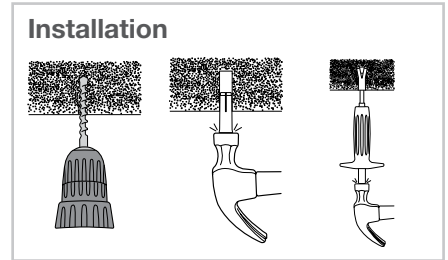
- Suitable for non-cracked concrete, precast hollow concrete and hard natural stone
- Internal threaded anchor with flared end for easy setting
- Ideal for use with Stud end fixing (page 56)



3:1 Safety rating - load rating is dependent on base material

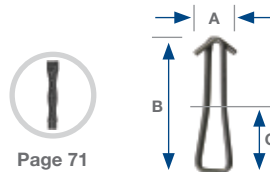
Product code	A (in)	B (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
DPA-1/4	1/4"	1"	200	3/8"	1 1/4"	1"
DPA-3/8	3/8"	1 3/8"	495	1/2"	3/4"	1 3/8"

* Indicates the minimum depth required



Concrete wire anchor

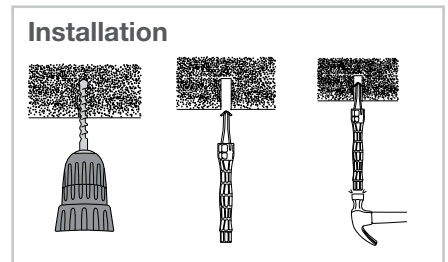
- Suitable for non-cracked concrete, precast hollow concrete and hard natural stone
- Stainless steel (304)



3:1 Safety rating - load rating is dependent on base material

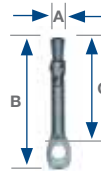
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
WIRE-ANCHOR	1/2"	2"	1"	165	3/8"	1 1/4"	1 1/4"

* Indicates the minimum depth required



Concrete ceiling anchor

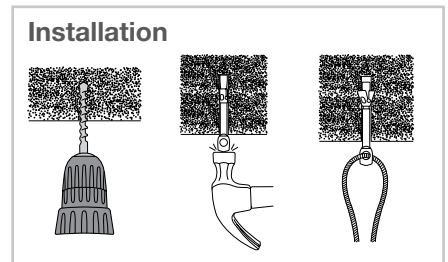
- Self-expanding eyelet hanger anchor suitable for non-cracked concrete, precast hollow concrete and hard natural stone
- Knock into a pre-drilled hole and pull with a claw hammer to set
- For use with Loop (page 56) and Hook (page 58) end fixings



3:1 Safety rating - load rating is dependent on base material

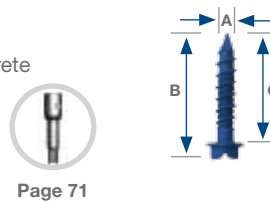
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
CWH6	1/4"	2 3/8"	1 3/8"	100	1/4"	1 3/4"	1"

* Indicates the minimum depth required



Concrete screw

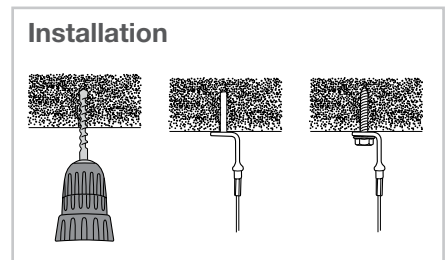
- Easy-fit slotted/hex head screw suitable for non-cracked concrete
- Excellent corrosion resistance; removable
- Ideal for use with the 1/4" Eyelet (page 60) and 90° 1/4" Eyelet end fixings (page 61)



3:1 Safety rating - load rating is dependent on base material

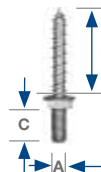
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
CWS32	1/4"	1 1/8"	1 1/4"	220	7/32"	1 3/8"	1 1/4"

* Indicates the minimum depth required



Barrel concrete screw

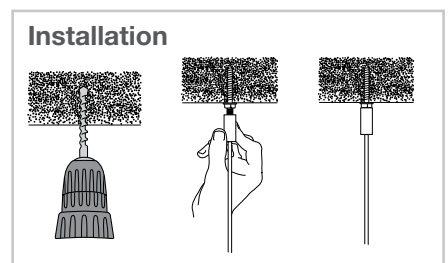
- Suitable for non-cracked concrete, precast hollow concrete and hard natural stone
- Easy-fit screw with integrated male thread connection
- Ideal for use with the 3/8" Barrel end fixing (page 59)
- Removable



3:1 Safety rating - load rating is dependent on base material

Product code	A	B (in)	C (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
BCS45-3/8	3/8"	1 13/16"	3/4"	220	1/4"	2 3/8"	1 3/8"

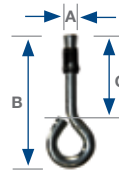
* Indicates the minimum depth required



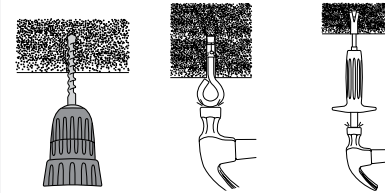
Concrete, cracked concrete and wood

Cracked concrete ring anchor

- Suitable for cracked concrete
- Self-expanding anchor, fire rated



Installation



3:1 Safety rating - load rating is dependent on base material

Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
CCRA6	¼"	2 ½"	1 ¾"	117	¼"	¾"	1"

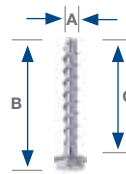
* Indicates the minimum depth required

Cracked concrete screw

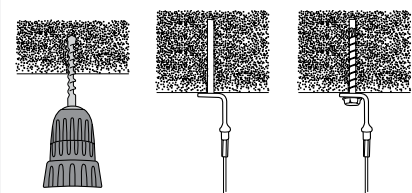
- Suitable for cracked concrete
- Ideal for use with the 90° Eyelet end fixing (page 61 and 62)
- Removable



Page 71



Installation



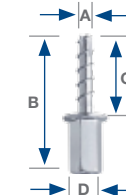
3:1 Safety rating - load rating is dependent on base material

Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
CCS45	⅜"	1 ⅜"	1 ½"	220	¼"	2"	¾"

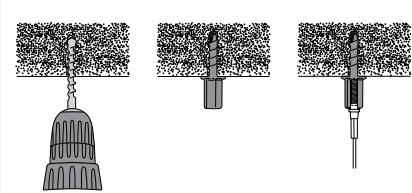
* Indicates the minimum depth required

Stud cracked concrete screw

- Suitable for cracked concrete
- Fits a ⅜" Stud
- Ideal for use with Stud end fixing (page 56)
- Removable



Installation



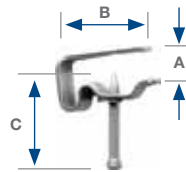
3:1 Safety rating - load rating is dependent on base material

Product code	A (in)	B (in)	C (in)	D (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
SCCS35	⅜"	2 ¾"	1 ⅞"	¾"	220	¼"	2 ⅞"	¾"

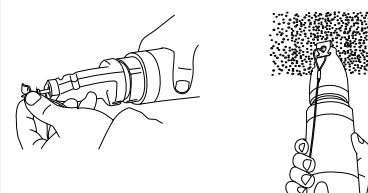
* Indicates the minimum depth required

Ceiling clip - Shot fired

- Loop end fixing (page 56) simply engages in the valley of the clip
- Available with plastic and metal washers for concrete and steel
- After firing, the nail completely entraps the Loop end fixing, but still allows pivotal movement of the cable



Installation



3:1 Safety rating - load rating is dependent on base material

Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
CLIP-P19 (Steel)	⅝"	1 ¼"	¾"	200
CLIP-P32 (Concrete)	⅝"	1 ¼"	1 ¼"	200

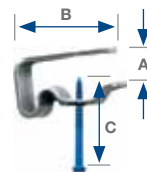
* Indicates the minimum depth required

Ceiling clip - Wood screw

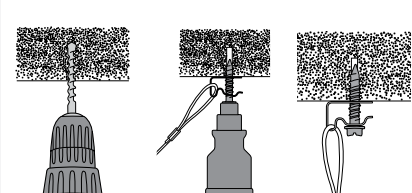
- Designed for screwing into wood
- Allows for pivotal movement
- Ideal for use with Loop end fixing (page 56)



Page 71



Installation



SWL - load rating is dependent on wood type

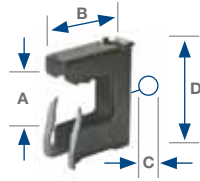
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)	Hole Ø (in)	Hole depth* (in)	Anchorage depth* (in)
CLIP-CWS32	⅝"	1 ¼"	1 ¼"	N/A	⅜"	1 ½"	1"

* Indicates the minimum depth required

Beams and purlins

Tiger clip

- Hammer-on installation
- Accommodates a wide variety of steel thicknesses
- Ideal for use with Hook end fixing (page 58)

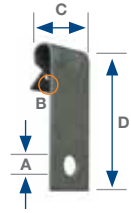


3:1 Safety rating

Product code	A (in)	B (in)	C (in)	D (in)	Max. SWL (lbs)
TIGERCLIP-28	1/16" - 3/16"	1 3/16"	1/4"	1 3/16"	260
TIGERCLIP-816	3/16" - 1/4"	1 1/4"	1/4"	1 1/2"	260

Vertical flange clip

- Hammer-on installation
- Two sizes available to suit 3/8" - 9/32" steel thickness
- Ideal for use with Hook end fixing (page 58)

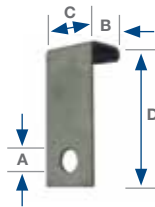


3:1 Safety rating

Product code	A (in)	B (in)	C (in)	D (in)	Max. SWL (lbs)
GCVF15	1/4"	1/32" - 3/16"	3/4"	1 1/2"	160
GCVF57	1/4"	3/16" - 1/2"	3/4"	1 1/2"	160

Purlin clip

- Easy installation - clip into place
- Available to suit 5/32" - 3/16" steel thickness
- Ideal for use with the Hook end fixing (page 58)

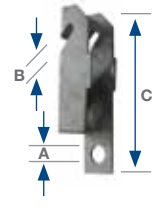


3:1 Safety rating

Product code	A (in)	B (in)	C (in)	D (in)	Max. SWL (lbs)
GCP45	1/4"	3/16"	3/4"	1 3/4"	45

Z Purlin clip

- Hammer-on installation
- Available to suit 3/32" maximum steel thickness
- Ideal for use with Hook end fixing (page 58)

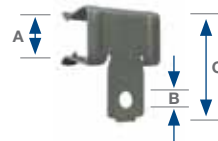


3:1 Safety rating

Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
GCZP48	1/4"	3/32"	1 7/8"	160

Beam clip

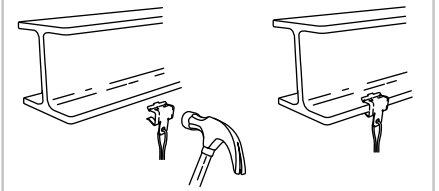
- Hammer-on installation
- Accommodates a wide variety of steel thicknesses
- Ideal for use with Hook end fixing (page 58)



3:1 Safety rating

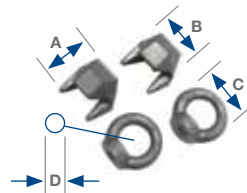
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
GCB24	1/16" - 5/32"	1/4"	1 3/16"	150
GCB59	3/16" - 1/2"	1/4"	1 1/2"	200
GCB1016	3/16" - 1/2"	1/4"	1 11/16"	200
GCB1720	3/8" - 1/2"	1/4"	1 7/8"	200

Installation



GF Bracket

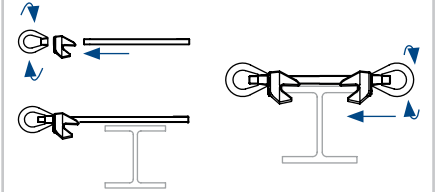
- Ideal for clamping onto an I-Beam section
- Suitable for 1/4" - 1/2" steel thickness
- Use with 1/2" threaded rod (not supplied)
- Ideal for use with Cable Strut kit (page 50)



5:1 Safety rating

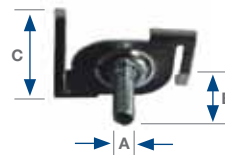
Product code	A (in)	B (in)	C (in)	D (in)	Max. SWL (lbs)
GF12-EYENUT	1 3/4"	1 7/8"	2 3/16"	1 3/16"	750
GF16-EYENUT	2 1/4"	2 1/16"	2 3/16"	1 3/16"	750
GF20-EYENUT	2 5/16"	2 5/16"	2 3/16"	1 3/16"	750

Installation



T-Bar twist clip

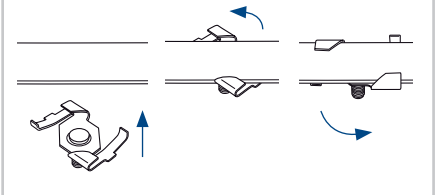
- Ideal for attaching to suspended ceilings
- Integral 1/4" male thread designed to be used with 1/4" Barrel end fixing (page 59)



3:1 Safety rating

Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
TBAR-CLIP-Q	1/4"	3/8"	1"	45

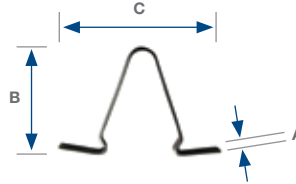
Installation



Adaptors and attachments

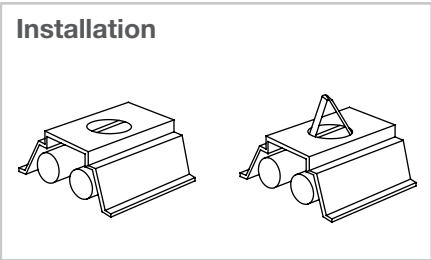
LSK Clip

- General purpose clip to support light fittings
- Designed to fit into 7/8" knockouts on top of light fixtures
- Steel with zinc plated finish



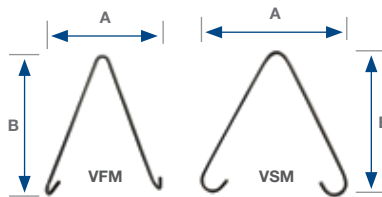
5:1 Safety rating

Product code	Hole Ø (in)	A (in)	B (in)	C (in)	Max. SWL (lbs)
CLIP-LSK	7/8"	3/16"	1 3/4"	2"	18



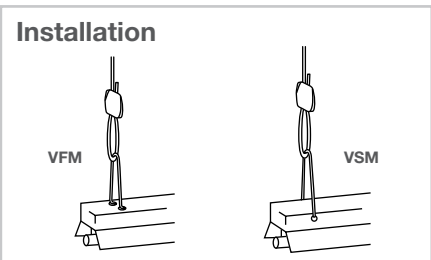
V-Bracket

- Side mount bracket for top of light fixtures (VSM)
- Front mount bracket for top of light fixtures (VFM)
- Easily fits into mounting holes
- Steel with zinc plated finish



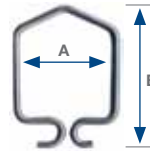
5:1 Safety rating

Product code	A (in)	B (in)	Max. SWL (lbs)
BRACKET-VSM	3 1/4"	4 3/4"	30
BRACKET-VFM	2 1/8"	3 3/4"	30



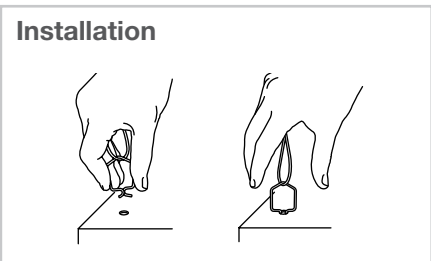
Spring clip

- Used for attaching to top of light fixtures with 1/4" holes
- Ideal for use with the Standard Gripple HF (page 38)



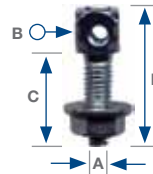
3:1 Safety rating - dependent on material thickness

Product code	A (in)	B (in)	Max. SWL (lbs)	Hole Ø (in)
CLIP-SPG-68	1"	1 1/2"	66	1/4"



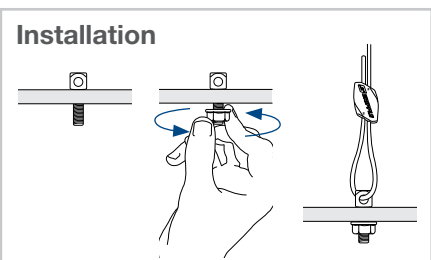
M6 and M8 Adaptor

- Ideal for fixing to many services such as light fixtures
- Can be fixed into concrete ceilings using a metric Drop-in anchor
- Available in metric threads only



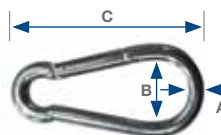
5:1 Safety rating - dependent on material

Product code	A	B (in)	C (in)	D (in)	Max. SWL (lbs)
ADP-M6	M6	1/8"	3/4"	1"	200
ADP-M8	M8	1/4"	1"	1 1/2"	500



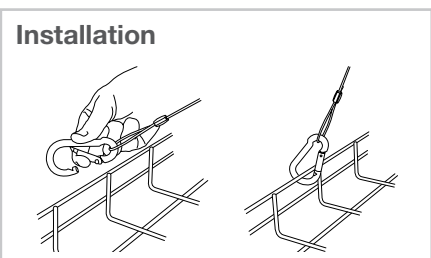
Karabiner

- Versatile end fixing, easy to attach and detach
- For use with Loop end hangers (page 56)
- Also available in Stainless steel



5:1 Safety rating

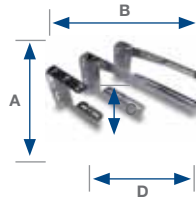
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
KARA-6-60	1/4"	3/16"	2 3/4"	100
KARA-6-60-S	1/4"	3/16"	2 3/4"	100
KARA-8-80	3/8"	1/2"	3 3/4"	200
KARA-8-80-S	3/8"	1/2"	3 3/4"	200



Brackets and fasteners

G-Bracket

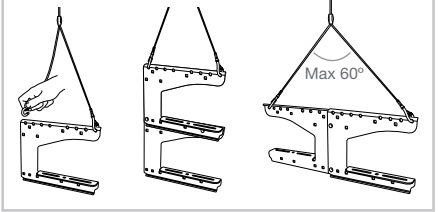
- Unique, balanced hanger for cable tray and basket
- Brackets can be easily joined together either vertically or horizontally with coupling bolts
- Designed for use with the Y-Fit and Y-Fit accessory (page 44)



3:1 Safety rating

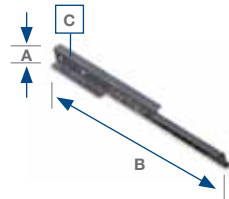
Product code	A (in)	B (in)	C (in)	D (in)	Max. SWL (lbs)
G-BRACKET-100	7 3/4"	6 1/2"	3"	4 3/4"	65
G-BRACKET-200	7 3/8"	10 1/4"	3"	7 3/8"	100
G-BRACKET-300	7 7/8"	14 1/2"	3"	12 3/4"	100

Installation



G Spacer

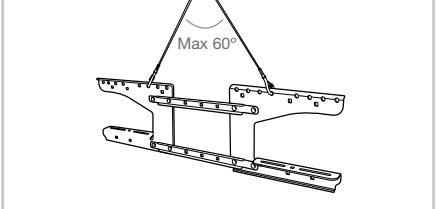
- Joins two G-Brackets together, either vertically or horizontally allowing a central gap (min. 12 in.)
- Links different sizes of G-Bracket together
- Adjustable



5:1 Safety rating

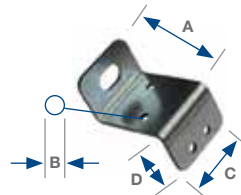
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
G-SPACER	1 1/2"	13"	1/4 x 1/4"	65

Installation



Trapeze bracket

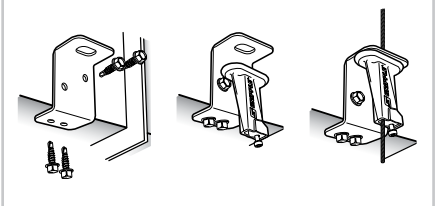
- Attaches to rectangular duct with #10 3/4" self-drilling screws
- Replaces the need for threaded rod or duct strap
- Rigid 14 gauge galvanized steel
- Use with the No.3 Trapeze hanger (page 40)



3:1 Safety rating

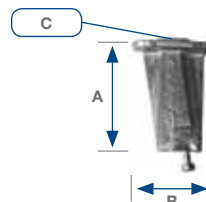
Product code	A (in)	B (in)	C (in)	D (in)	Max. SWL (lbs)
TPZ-BRACKET	1 1/4"	3/4"	1 1/2"	1"	200

Installation



Trapeze fastener

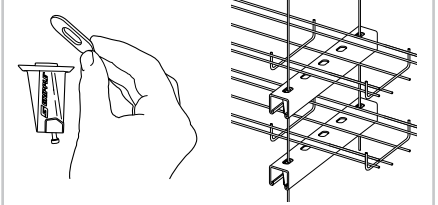
- For use with multi-tiered installations
- Combine with the Trapeze kit (page 40) or the Standard Gripper HF No.3 (page 38)



3:1 Safety rating

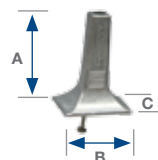
Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
TRAPEZE-NO3	1 1/8"	1 3/16"	3/16" x 3/8"	200
TPZ-WASHER	1 5/16"	1 3/16"	3/16" x 23/32"	200

Installation



Trapeze No.2

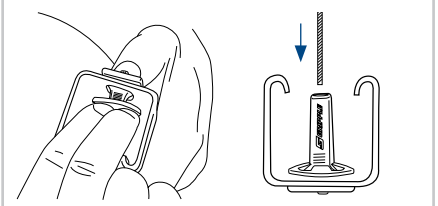
- Tapered design - accommodate all slots sizes
- Discreet - fits completely inside the strut channel
- Pre-fits onto strut channel to ease working at height
- Pin allows rapid adjustment



5:1 Safety rating

Product code	A (in)	B (in)	C (in)	Max. SWL (lbs)
TRAPEZE-NO2	1 13/16"	1 3/16"	23/32"	100

Installation



Tools

Tensioning tool

- Apply tension easily with the 6:1 gear drive mechanism
- Integral tension gauge for precision tensioning up to 880 lbs
- Compact, easy to handle, operate, and carry.
- Ideal for use with the No.5 Gripple and hanger

Product code:
CTI-1/4-TOOL



Adjustment keys

- For adjusting the height of the Gripple hanger (pre-load)
- Two sizes available – for Gripple No.1- No.3 and Gripple No.4- No.5

Product code:
KEY-FLAG (for sizes No.1 to No.3)
KEY-HF45-LK (for sizes No.4, No.5 and Lockable)



Cable cutters

- Hardened, durable jaws
- Two sizes available – Small for use on No.1-No.4 cable, or Large, providing greater leverage for the No.5 cable

Product code:
CUTTER-GRIPPLE
CUTTER-1/4



Drop-in anchor setting punch

- Leaves four permanent indents on the anchor to indicate correct installation
- Ergonomic handle with hand protection

Product code:
MAN-PUNCH-1/4
MAN-PUNCH-3/8



Wire anchor installation tool

- Tool securely locates onto the wire anchor to aid and ease installation

Product code:
WIRE-ANCHOR-TOOL



Fixing tool – Ceiling Clip wood screw

- Locates onto the hexagonal screw head for ease of installation
- Drill attachment

Product code:
SOCKET-6.5MM



Driver bit

- Designed specifically for use with the concrete screws for ease of installation

Product code:
CONC-SCREW-BIT



Finishing products and accessories

Ceiling fixing kit

- Decorative cover to sit flush against a suspended ceiling
- Hides the anchor and the Gripple
- Suitable for Gripple HF size No.1

Product code:
CEILING-COVER



Decor cover

- Covers the Gripple and allows the user to paint the surface to their choice of color
- Snap-fit for quick installation
- Suitable for Gripple HF sizes No.2-No.3

Product code:
DECOR-COVER-NO2
DECOR-COVER-NO3



Corner saddle

- Helps prevent cable friction on rectangular ducting
- Available with or without magnetic fixing
- Use with cable sizes No.1 to No.4

Product code:
CORNER-SADDLE (standard)
CORNER-SADDLE-MAG (magnetic)



Twister

- Keeps tail wires neat and tidy
- Grey aesthetic finish – blends into background
- For use with No.2 and No.3 cable

Product code:
TWIST-100BB



Protective sleeve tubing

- Protective black tubing to minimize the risk of condensation on the cable
- Ideal for use on No.2 and No.3 cable

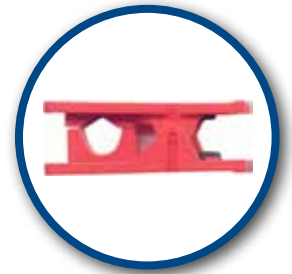
Product code:
SLEEVE-2MM-FT
SLEEVE-3MM-FT



Sleeve tubing cutter

- To easily cut protective sleeve tubing to your chosen length
- Clean, professional finish
- Cuts both No.2 and No.3 size tubing

Product code:
CUTTER-SLEEVE



Gripple work belt

- Numerous pockets to keep products safe and handy
- Adjustable belt
- Fast-release buckle
- Heavy-duty woven polyester

Product code:
WORKBELT



Manufacturer's recommendations

Failure to comply with these recommendations may result in product malfunction and possible damage to property or person and will invalidate the Gripple warranty. Gripple products are warranted to conform to the manufacturer's published specifications at the time of shipment and to be free from defects in materials and workmanship. No other warranty, whether express or implied, including any warranty of merchantability or fitness for purpose shall exist in connection with the sale or use of any Gripple product.

Full technical information and installation instructions should be obtained directly from Gripple Inc., Gripple Limited, Gripple Europe, or any regional Gripple office, or via the website www.gripple.com.

Please respect the following key recommendations:



Loads - Always operate the product within its stated Safe Working Load (SWL) range.



Cable - Always use Gripple supplied and specified cable. Never use on coated cable or other cable. Trim any damaged filaments with Gripple wire cutter before use.



Lifting and movement - Do not use for lifting, either as a crane or as part of a pulley system, or for hanging services exhibiting moving or dynamic behavior. Designed for hanging statically positioned services only.



Environment - Do not use in acid and chlorinated affected atmospheres. Use standard Gripple hangers in dry and air conditioned environments only. Stainless steel Gripple hangers should be considered for high to saturated humid environments.



Installation - Do not walk or stand on the Gripple product installation.



Joining - Never join two cable ends together in-line. Only pass the free end of the cable in a continuous loop through both channels of the Gripple fastener. The angle inside the Gripple formed loop must not exceed 60°.



Painting - Do not paint the Gripple fastener. Ensure that the Gripple is in its final position and protected with the Decor cover prior to applying any paint to the cable assembly. Do not move the Gripple fastener after painting.



Hanging at an angle to vertical - Ensure that the load calculation considers the effect of 'side load'. For example, at an angle of 60° to vertical the SWL is reduced by 50% (See published technical information on website or product guide page 74).



Lubrication - Do not apply oil or any other lubricant to the Gripple or any other part of the assembly.



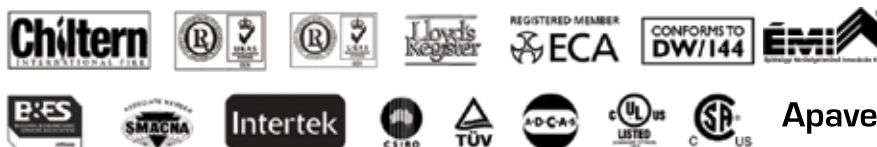
Ducting: When installing wraparound hangers on round/spiral ducting or pipes, the final inclusive angle of the assembly should not exceed 60°.



Y-Fit: Legs on Y-Fit hangers not to be installed at angles greater than 60°.

Quality and approval

Quality is everything to Gripple; not just in the products we make and the manufacturing process we employ, but the way we do business. Our compliance to the International Organization for Standardization BS EN ISO 9001 at our Sheffield, England manufacturing plant is the backbone of our own quality management system. We also serve the North American market with our manufacturing facility just outside of Chicago.

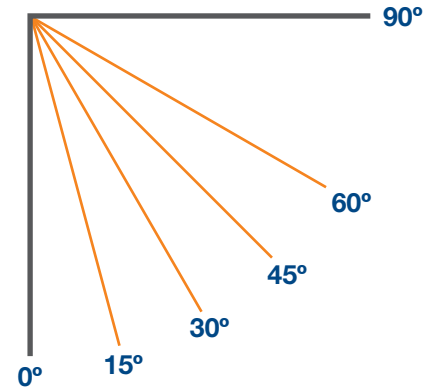


Technical information

Hanging at angles

The load rating for a Gripple hanger is based on the suspension being hung vertically. If the cable is suspended at an angle, an additional sideways load is applied which reduces the load capacity of the overall suspension. The net effect is shown in the table below.

Gripple hanger size	Maximum load (lbs) at an angle from vertical				
	0°	15°	30°	45°	60°
No.1	25	24	21	17	12
No.2	100	96	86	70	50
No.3	200	192	172	140	100
No.4	495	475	425	346	247
No.5	715	686	614	500	357
Load %	100	96	86	70	50



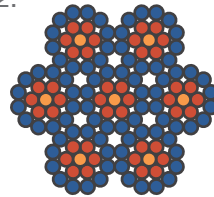
No Gripple hanger should be hung at an angle in excess of 60° from vertical

Cable construction and cross sections

The cable used with our product range is made of grade AISI 316 zinc galvanized, in accordance with the norm BS 302.



7 x 7 (6/1)



7 x 19 (12/6/1)

Gripple hanger size	Diameter (inch)	Construction
No.1	1/16"	7 x 7
No.2	5/64"	7 x 7
No.3	1/8"	7 x 7
No.4	3/16"	7 x 19
No.5	1/4"	7 x 19

Calculation formula (How to choose the right size of hanger):

	Weight per ft	x	Distance between hangers	=	lbs	Gripple hanger size*
Example 1:	20 lbs	x	5 ft	=	100 lbs	No.2
Example 2:	60 lbs	x	5 ft	=	300 lbs	No.4

* Remember to adjust Hanger Size choice if hanging at angles.

Green cable hanger systems

The Gripple cable hanger system is more environmentally friendly and up to six times faster than traditional threaded rod, helping you save money and the planet.

In 2009 our carbon savings were the equivalent of producing 136 million plastic bags, flying 29,000 long-haul flights, or powering 14,000 households for one year.

Method	CO ₂ emissions (lbs/ft)	CO ₂ savings (lbs/ft)	% of CO ₂ savings per foot by using Gripple
No.1 cable	0.14	8.54	98%
1/4" steel rod	8.68		
No.2 cable	0.51	8.17	94%
1/4" steel rod	8.68		
No.3 cable	1.08	9.62	90%
5/16" steel rod	10.70		
No.4 cable	2.68	8.02	75%
3/8" steel rod	10.70		

Ductwork calculations

Rectangular duct, based on 10' hanging space and single cable hanging method.

Duct size (height + width)	Grippler size		
	26 Gauge	24 Gauge	22 Gauge
20"	2	2	2
28"	2	2	2
36"	2	2	2
40"	2	2	2
48"	2	2	3
52"	2	3	3
60"	2	3	3
64"	3	3	3
72"	3	3	3
80"	3	3	3
84"	3	3	4
92"	3	3	4
96"	3	3	4
100"	3	4	4
116"	3	4	4
120"	3	4	4

Safe working loads

Hanger size	Safe Working Load (SWL)
No.1	25 lbs
No.2	100 lbs
No.3	200 lbs
No.4	495 lbs
No.5	715 lbs

Spiral duct, single wall, based on 10' hanging space.

Diameter	Circumference	Grippler size		
		26 Gauge	24 Gauge	22 Gauge
12"	3' 2"	2	2	2
16"	4' 2"	2	2	2
20"	5' 3"	2	2	2
24"	6' 3"	2	2	2
28"	7' 4"	2	2	3
32"	8' 5"	2	3	3
36"	9' 5"	2	3	3
40"	10' 6"	3	3	3
44"	11' 6"	3	3	3
48"	12' 7"	3	3	3
52"	13' 7"	3	3	4
56"	14' 8"	3	3	4
60"	15' 8"	3	4	4

Spiral duct, double wall, based on 10' hanging space.

Inside diameter (in)	Outside gauge	Inside gauge	Wt/Ft (lbs)	Grippler size
12"	26	26	8.0	2
16"	24	24	11.0	3
20"	24	24	13.4	3
24"	24	24	18.0	3
28"	22	24	22.3	4
32"	22	24	25.2	4
36"	20	22	31.2	4
40"	20	22	36.7	4
44"	20	22	40.2	4
48"	20	22	43.8	4
52"	18	20	56.2	5
56"	18	20	60.8	5

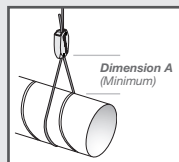
Please note, calculations do not take into account weight of connectors.

Hanger length charts

Standard hanging (for spiral duct 36" and smaller)

Duct size (diameter)	Dim. A (minimum)	Grippler cable length (ft)							
		Elevation from roof to top of duct							
		5'	8'	10'	12'	15'	18'	20'	
12"	3"	10'	15'	15'	20'	20'	25'	25'	
14"	3.5"	10'	15'	15'	20'	20'	25'	25'	
16"	4"	10'	15'	15'	20'	20'	25'	25'	
18"	4.5"	10'	15'	15'	20'	20'	25'	25'	
20"	5"	15'	15'	20'	20'	25'	25'	30'	
22"	5.5"	15'	15'	20'	20'	25'	25'	30'	
24"	6"	15'	15'	20'	20'	25'	25'	30'	
26"	6.5"	15'	15'	20'	20'	25'	25'	30'	
28"	7"	15'	20'	20'	20'	25'	30'	30'	
30"	7.5"	15'	20'	20'	20'	25'	30'	30'	
32"	8"	15'	20'	20'	25'	25'	30'	30'	
34"	8.5"	15'	20'	20'	25'	25'	30'	30'	
36"	9"	20'	20'	25'	25'	30'	30'	35'	

- All hangers are available in 5', 10', 15', 20' and 30' standard lengths
- Lengths rounded up to nearest 5 ft increment
- Size of cable hanger (No.1 - No.5) will be based on weight of duct and hanger spacing
- Allow spacing equal to 1/4" of duct diameter between the Grippler fastener and duct (Dim. A)



Cradle hanging (for spiral duct larger than 36")

Duct size (diameter)	Grippler cable length (ft)							
	Elevation from roof to top of duct							
	5'	8'	10'	12'	15'	18'	20'	
36"	20'	30'	30'	35'	40'	50'	50'	
38"	20'	30'	30'	35'	40'	50'	50'	
40"	25'	30'	35'	35'	45'	50'	55'	
44"	25'	30'	35'	40'	45'	50'	55'	
46"	25'	30'	35'	40'	45'	50'	55'	
48"	25'	30'	35'	40'	45'	50'	55'	
50"	25'	30'	35'	40'	45'	50'	55'	
52"	25'	30'	35'	40'	45'	50'	55'	
56"	25'	35'	35'	40'	45'	55'	55'	
60"	30'	35'	40'	40'	50'	55'	56'	

- All hangers are available in 5', 10', 15', 20' and 30' standard lengths
- Lengths rounded up to nearest 5 ft increment
- Size of cable hanger (No.1 - No.5) will be based on weight of duct and hanger spacing
- Duct larger than 36" should be hung in 'cradle' fashion, with the hanger secured at two points to the roof / ceiling and the cable supporting the duct underneath



Gripple's world

USA

- MGM City Center, Las Vegas, NV
- Dallas Cowboys Stadium, TX
- Trump Tower, Chicago, IL
- Busch Stadium, St. Louis, MO
- Facebook Data Center, OR
- Anchorage Sport Fish Hatchery, AK
- Washington Nationals Stadium, DC
- Fort Lee Army Base, Petersburg, VA
- New York Yankees Stadium, NY
- Nestle Plant, Anderson, IN
- Golden Nugget Hotel Casino, Las Vegas, NV
- Caterpillar Plant, Little Rock, AR
- USC Medical Center, CA
- Lucas Oil Stadium, Indianapolis, IN
- Florida Marlins Stadium, Miami, FL
- Vanderbilt University 100 Oaks, Nashville, TN
- US Postal Distribution Center, North Reading, MA
- Universal Studios Harry Potter Attraction, Orlando, FL
- Fort Carson Army Base, Colorado Springs, CO
- Andrews Air Force Base, MD
- Walter Reed Medical Center, Washington DC
- Denver Criminal Justice Center, Denver, CO
- Minnesota Twins Stadium, MN
- Norfolk Naval Shipyard, Norfolk, VA
- Temple University Medical School, Philadelphia, PA
- University of Texas, Austin, TX
- Florida Air National Guard 125th Fighter Wing, Jacksonville, FL
- US Airways, Phoenix, AZ
- Shell Oil Technology Center, Houston, TX
- Vestas Wind Tower Mfg., CO
- Camp Lejeune, Jacksonville, NC
- Herbert Hoover Building, Washington, DC
- Children's Hospital, Minneapolis, MN
- Ford Motor Company, Various sites
- Wal-Mart, Various sites
- Bed Bath and Beyond, Various sites

Spain

- Aeropuerto Madrid-Barajas
- Airbus Madrid-Getafe, Illescas-Toledo, AS400 Sevilla
- FNAC Madrid, Bilbao, Cartagena, Sevilla...
- Corte Ingles Madrid, La vaquada, Malaga, Cartagena...
- Verdeoora 3xMadrid, Murcia, Valencia...
- PC City 4xMadrid, Burgos, Zaragoza...
- Hotel Foxa Tres Cantos
- Laboratorio Ditleman
- Centro Logistico Mercadona
- Supermercados Erosky
- Cartelería y decoración en Boulanger and Leroy Meriin Getafe
- Factoria Renault Truck Leganes
- Hospital S.S. Ceuta
- Centro Deportivo Internacional-Valencia Copa America

Canada

- Toyota Plant, Woodstock, ON
- GM Plant, Toronto, ON
- BMW Headquarters, Markham, ON
- University of Windsor, Windsor, ON
- Great Wolf Lodge, Niagara Falls, ON
- Calgary Airport, Calgary, AB
- Juravanski (Henderson) Hospital, Hamilton, ON
- Peterborough Hospital, Peterborough, ON
- Niagara Regional Hospital, St. Catharines, ON
- Wayne Gretzky Sports Centre, Brantford, ON
- Department of National Defense, Ottawa, ON
- Sheraton Hotel, Niagara Falls, ON
- St. John's Transit Authority, St. John's, NFL
- Metro Grocery Store, Hamilton, ON
- G8 Centre, Huntsville, ON
- Humber College Student Centre, Toronto, ON
- Royal Victoria Hospital, Barrie, ON
- IKEA, various sites
- Canadian Tire, various sites

Mexico

- Supermercados Soriana, Varios
- Aeropuerto La Ciudad de México – Benito Juárez
- Supermercados Walmart, Varios
- Nextel – Centro de Mantenimiento de Redes, D.F.
- Acero Sueco Palme – Centro de distribución, El Salto
- Zoltek – Planta de Fabricación, El Salto

UK and Ireland

- Wembley Stadium, London
- Swiss Re, London
- Queen Elizabeth Hospital
- RAF, Coningsby
- Next Distribution Centre
- Rolls Royce
- Pinderfields Hospital, Wakefield
- Asda
- Bullring, Birmingham
- Harrods, London
- Bank of England, London
- Jaguar Cars, Birmingham
- Mercedes Brooklands, London
- Manchester Airport, Manchester
- Irish Times
- Dublin Airport, Dublin
- Coca Cola, Dublin
- St James' Hospital, Leeds
- Ikea
- Tesco
- Sainsbury's
- Morrison's
- Canary Wharf
- Silverstone
- London 2012 Olympics - Handball Arena, Basketball Arena and Velodrome
- BBC Broadcasting House
- Central St Giles

India

- Delhi Airport, Delhi
- Nokia, Chennai
- SKF Ahmedabad
- Motorola, Chennai
- Flextronics, Chennai
- Hewlett Packard, Bangalore
- Sanmina, Chennai
- Allison Transmission, Chennai
- HCL Infosystems, Pondichery
- Apollo Tyres, Chennai
- Godfrey Phillips, Mumbai

Dubai

- Dubai Airport T3
- Atlantis Hotel
- Global Village
- Palm – Monorails
- Tecon Tower
- Ibis Hotel
- Novotel
- Dubai Metro
- Jumbo Warehouse
- Jebel Ali free zone
- Al shaqab Equestrian Centre, Qatar

Australia

- Orange Hospital
- Royal North Shore Hospital, St Leonards Sydney
- Aldi DC, Prestons
- Sydney Water HQ Potts Hill
- Red Bull HQ Alexandria
- Sydney Airport Mascot
- Taronga Zoo Sydney
- Gold Coast International Airport
- Gatton Veterinary University
- Griffith University Smart Water G51
- Melbourne Convention Centre
- Childrens Hospital Melbourne
- Swinburne University Melbourne

Chicago, USA
Gripple Inc



São Paulo, Brazil
Gripple Ltda

France

- Centre Pompidou Paris et Metz
- Musée Quai Branly Paris
- Centre Cancérologique Jean Perrin, Clermont Ferrand
- Centre Hospitalier Intercommunal d'Annemasse-Bonneville (CHIAB)
- Hôpital de Toulouse Purpan
- Hôpital de Calais
- Hôpital Sainte-Musse Toulon
- Centre de gérontologie du Cap d'Ail
- Clinique des Estuaires, Le Havre
- Tour Eurallie
- Center Parc, Sarrebourg
- Centre aquatique Migros, St Julien en Genevois
- Laser Mega Joule, Bordeaux
- Centre commercial des docks Café Le Havre
- Centre commercial des docks Vauban Rouen
- Centre commercial Marque Avenue Calais
- Centre commercial Caserne de Bonne Grenoble
- Ikea
- Décathlon
- Auchan
- Darty
- BA St Dizier
- Orange, Arcue
- Spie
- Eurofarad
- Usines assemblage Airbus A380 & A350
- Renault Saint Herblain
- Peugeot Usine de Mulhouse
- Sanofi-Aventis
- Aéroport Charles de Gaulle, Paris
- Park B Aéroport de Nice
- Tour CMA-CGM
- Tour Oxygène Lyon Quartier La part Dieu
- Hôtel des Régions Lille
- Centre de Tri de La Poste Gennevilliers
- Direction Générale de la Gendarmerie Nationale

Germany

- BMW Dingolfing
- Audi Neckarsulm
- Daimler Kuppenheim
- Kaufland
- Ikea
- Metro
- Obi
- Netto
- Real
- Globus
- Stadler Hannover
- Nestle
- EverQ Qcells Thalheim
- Commerzbank Arena Frankfurt
- WCC World Cargo Center Norderstedt
- American Express Frankfurt
- DM Verteilerzentrum Weilerswist
- Universität Freiburg
- Stadtbibliothek Stuttgart
- Deutsche Post Verteilercenters

Austria

- Skylink Flughafen Wien (Vienna Airport)
- Weihnachtsbeleuchtung Rathausplatz und Kärtnerstrasse Wien
- Ikea
- Merkur
- Baumax
- Interspar
- Leiner
- Saturn
- Mediamarkt
- Billa
- Börse Wien
- BVT Wien
- Krankenhaus Ried
- Voest Alpine
- DHL Wien

Italy

- Acqua e Sapone
- Aeroporto Linate MI
- Aeroporto Orio al Serio BG
- Bennet
- Centro Commerciale Bellusco MB
- Centro commerciale Fiordaliso
- Negozio 3S sport Rozzano MI
- Diffusione Tessile Cernusco sul Naviglio MI
- Esselunga
- Ikea
- Iperal Sondrio
- Logistica DHL Azzano San Paolo BG
- Negozio Tong Vimodrone MI
- Ospedale
- Palazzo dello Sport Alzano Lombardo BG
- Palestra Suisio BG
- Prenatal Assago MI
- Protezione civile Bergamo
- RCS Milano
- Scuola Primaria Bellusco MB
- Sede 3M Pioltello MI
- Stazione Centrale Milano
- Tigros Solbiate Arno VA
- Turin shopping Mall
- Università via Segantini MI

Hungary

- Daimler
- Origo Films Studios
- KBC Data centers
- Auchan
- Decathlon
- Tesco
- Lidl
- CBA
- OBI
- Baumax
- Karl Zeiss
- Beckton Dickinson
- TEVA
- Richter Gédéon
- EON

Portugal

- Fundação Champalimad (Lisboa)
- Laboratório Ibérico de Nanotecnologia (Braga)
- FNAC (Coimbra, Funchal, Viseu, Braga, Guimarães, Lisboa – Vasco Gama e Alfragide, Leiria...)
- Hospital Santa Maria (Lisboa)
- Ikea (Matosinhos – Fnac e Loures)
- Decathlon (Guimarães e Santarém)
- Intermarké (Marinhais)
- Escola Dom Nuno Alvares Pereira (Tomar)
- Escola Secundária Padre António Vieira (Lisboa)
- Escola Dona Inês de Castro (Alcobaça)
- Escola de Sargentos do Exército (Caldas da Rainha)
- Hotel Open Village (Guimarães)
- Casino de Troia
- Centro Comercial Vasco da Gama (Lisboa)
- Centro de Dia da Fajarda

Switzerland

- Mont Brilland Geneve
- Credit Suisse Zurich
- Fedex Geneve
- Coop Lyssach
- Darty Crissier, Villeneuve, Etoy
- Mercedes Tessin
- Peugeot Schönbühl
- Rolex Geneve
- La Poste Härkingen
- Vuitton Geneve...

Belgium

- Makro Metro
- Etap Hotel, Ruisbroek/Antwerpen
- Médiacité, Liège
- Glaxo SmithKline, Wavre
- Decathlon
- Fnac
- Mechelse Veiling, Sint Katelijne
- Palais de Justice Charleroi
- Hôpital Saint-Luc, Woluwe-Saint-Lambert
- Baxter Pharma, Braine l'Alleud
- ING Banque, Louvain la Neuve
- Aéroport Gosselies

Netherlands

- Rabobank Nederland
- Radboud Ziekenhuis, Nijmegen
- BASF, Utrecht
- Windesheim College Zwolle
- Colruyt Belgique
- Ahoy Rotterdam
- UPS Nederland
- Wärsila Kampen

Luxembourg

- Centre de Conférences Européen du Findel
- Data Center (Centre Administratif des Postes et Télécommunications)
- Luxlait
- Ceratizit

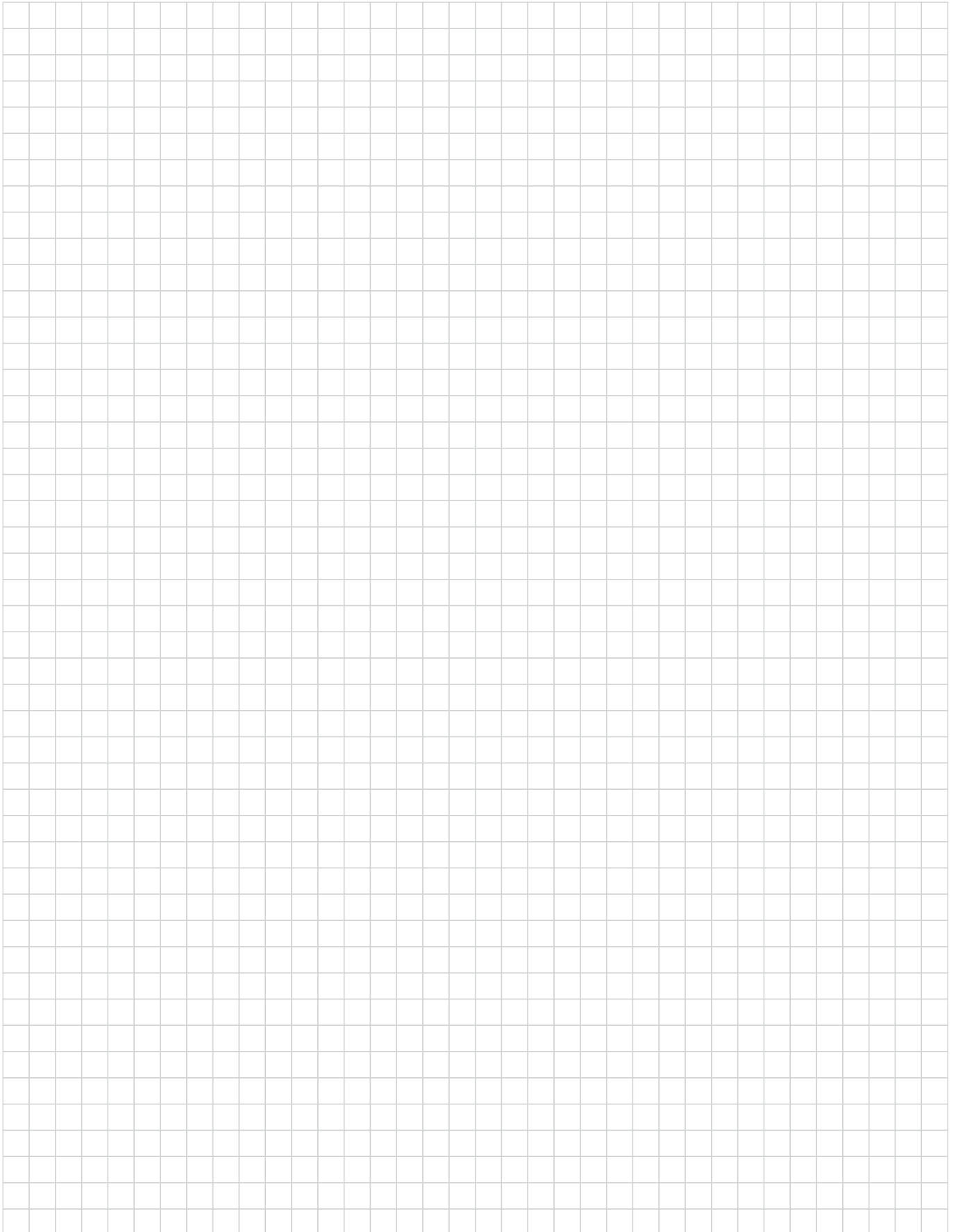


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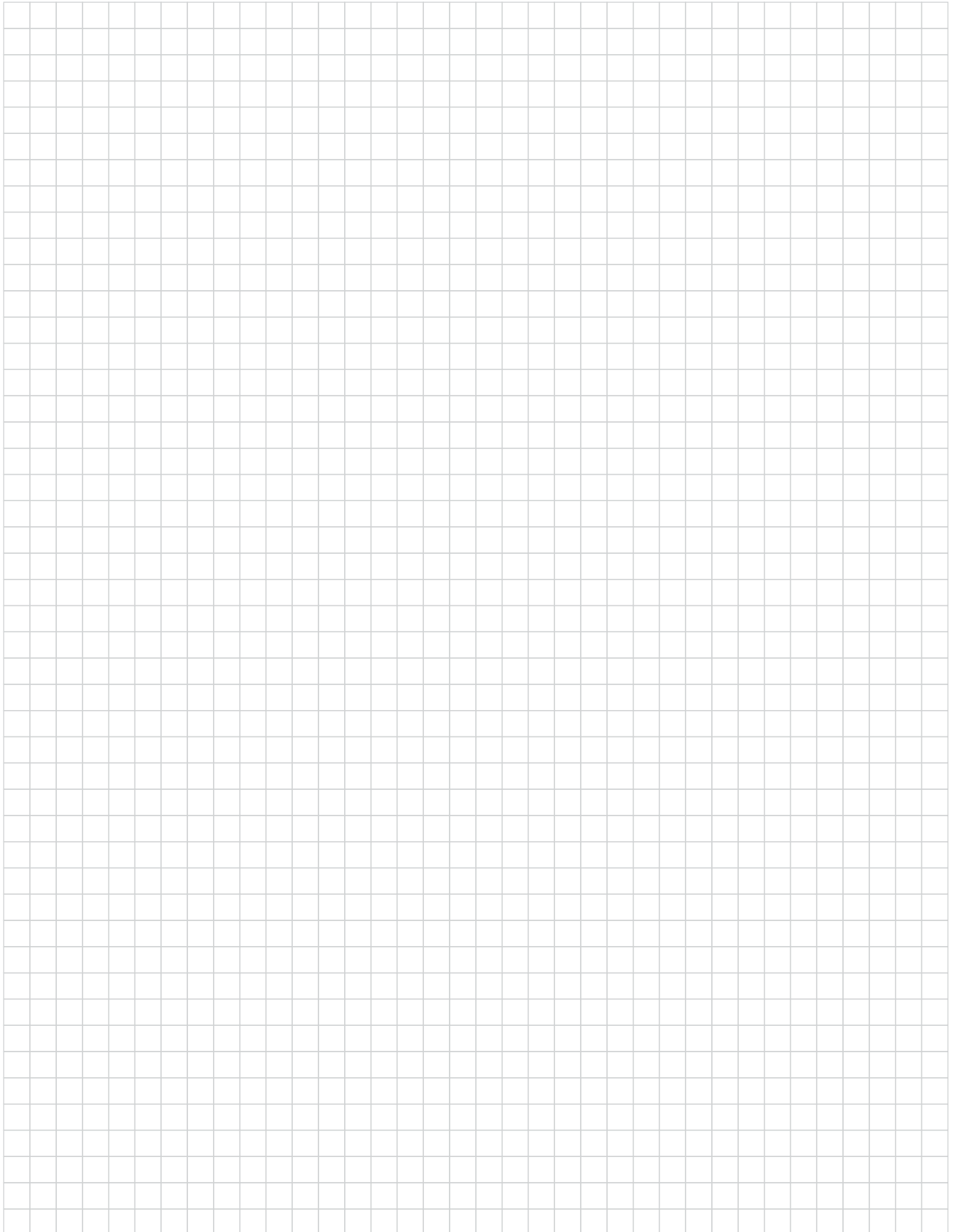
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Notes



Notes



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