

Restraint Straps

TRS, LD, HD & PWS

The TRS Engineered Restraint Strap TRS

The TRS is lightweight to handle yet retains its structural strength so it can be used instead of a traditional Heavy Duty Strap for providing lateral restraint of roof trusses, rafters and joists tied to masonry and for vertical applications such as holding down the wall plate. Designed to The Building Regulations BS 5268 Part 3 and other building standards for lateral restraint.

Lightweight design makes it easier to handle.

No need to notch joists making it easier and quicker to install.

Easier to build into brickwork courses.

More cost effective when compared to the traditional Heavy Duty Strap and Heavy Edge Rolled Strap.

CE



TRS

SPECIFICATION

Galvanised steel EN 10346 G600.

Manufactured to EN 845-1:2013.

Tested by Lucideon Ltd Notification Body No.1289.

INSTALLATION

For horizontal applications use min 6 no. 3.75 x 30mm square twist nails or equivalent fixed to timber joists/rafters.

Code	Product	Product Dimensions (mm)		Bundle Qty.
		Overall length (including an bend)	Length of bend	
Pre Galvanised - 1.4mm thick x 36mm wide				
TRS600B100	TRS Bent	600	100	25
TRS800B100	TRS Bent	800	100	25
TRS1000B100	TRS Bent	1000	100	25
TRS1200B100	TRS Bent	1200	100	25
TRS1500B100	TRS Bent	1500	100	25
TRS1600B100	TRS Bent	1600	100	25

Declared values for the TRS strap

Fixed to timber joists with noggings	9.5kN	1.1mm deflection at 1/3 of this load
Fixed to I-joists with noggings	9.2kN	1.5mm deflection at 1/3 of this load

Restraint Straps

TRS, LD, HD & PWS

Traditional Restraint Straps

Traditional Light and Heavy Duty Restraint Straps designed to The Building Regulations BS 5268 Part 3 and other building standards for vertical (LD) restraint or lateral (HD) restraint.

Light Duty LD

Light Duty Restraint Straps are generally for vertical applications such as holding down a wall plate.

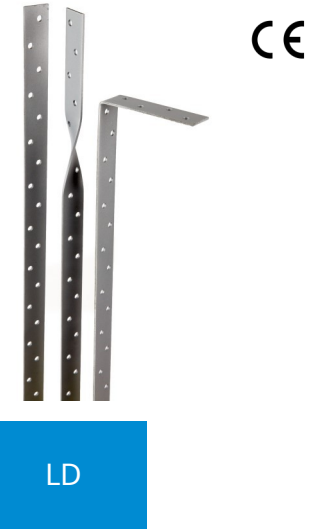
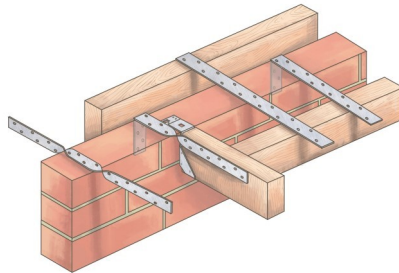
Heavy Duty HD

Heavy Duty Restraint Straps are generally for horizontal applications providing lateral restraint of roof trusses, rafters and joists tied to masonry.

Popular stock sizes are listed on the following page but straps can be ordered to any length up to 15m.
Holed 6mm at 25mm offset centres.
Available in galvanised or stainless steel.

SPECIFICATION

Galvanised steel EN 103 DX51D Z275 or grade 1.
austenitic stainless steel
Manufactured to EN 845 1:2013.
Tested by Lucideon Ltd.



LD



HD

INSTALLATION

Light Duty LD

When used as a vertical restraint to hold down a wall plate use a minimum length of 900mm.

For galvanised straps use min 10 no. 3.75 x 30 square twist nails or 6 no. 4 x 40 screws (drilled and plugged) into the masonry. Use min 2 no. 3.75 x 30 square twist nails into wall plate.

For stainless steel straps use min 10 no. 3.75 x 30 annular ring shank nails stainless steel or 6 no. 4 x 40 stainless steel screws (drilled and plugged) into the masonry. Use min. 2 no. 30 x 3.75 annular ring shank nails into wall plate.

Heavy Duty HD

For galvanised straps use min 7 no. 3.75 x 30 square twist nails or equivalent fixed to timber joists / rafters.

For stainless steel use min 7 no. 3.75 x 30 annular ring shank stainless steel nails or equivalent

Restraint Straps

TRS, LD, HD & PWS

Light Duty Galvanised Straps

Popular stock sizes are listed below but straps can be ordered to any length up to 15m.

Bent & twisted straps are on the last page of this literature.

Stainless Steel Straps are on the last page of this literature.

Code	Product	Product Dimensions (mm)		Bundle Qty.
		Overall length including bend or twist	Length of bend or twist	
Pre Galvanised - 2.4mm thick x 27.5mm wide				
LD200B50	Light Duty Galv Bent	200	50	100
LD300B100	Light Duty Galv Bent	300	100	100
LD400B100	Light Duty Galv Bent	400	100	20
LD450B100	Light Duty Galv Bent	450	100	20
LD600B100	Light Duty Galv Bent	600	100	20
LD800B100	Light Duty Galv Bent	800	100	20
LD900B100	Light Duty Galv Bent	900	100	20
LD1000B100	Light Duty Galv Bent	1000	100	20
LD1200B100	Light Duty Galv Bent	1200	100	20
LD1200B150	Light Duty Galv Bent	1200	150	20
LD1400B100	Light Duty Galv Bent	1400	100	20
LD1600B100	Light Duty Galv Bent	1600	100	20
LD200F	Light Duty Galv Flat	200	-	20
LD220F	Light Duty Galv Flat	220	-	20
LD250F	Light Duty Galv Flat	250	-	20
LD300F	Light Duty Galv Flat	300	-	20
LD400F	Light Duty Galv Flat	400	-	20
LD600F	Light Duty Galv Flat	600	-	20
LD800F	Light Duty Galv Flat	800	-	20
LD900F	Light Duty Galv Flat	900	-	20
LD1000F	Light Duty Galv Flat	1000	-	20
LD1100F	Light Duty Galv Flat	1100	-	20
LD1200F	Light Duty Galv Flat	1200	-	20
LD1400F	Light Duty Galv Flat	1400	-	20
LD1600F	Light Duty Galv Flat	1600	-	20
LD3000F	Light Duty Galv Flat	3000	-	20
LD3600F	Light Duty Galv Flat	3600	-	20
LD600T100	Light Duty Galv Twisted	600	100	20
LD600T150	Light Duty Galv Twisted	600	150	20
LD750T100	Light Duty Galv Twisted	750	100	20
LD800T100	Light Duty Galv Twisted	800	100	20
LD900T100	Light Duty Galv Twisted	900	100	20
LD900T150	Light Duty Galv Twisted	900	150	20
LD1000T100	Light Duty Galv Twisted	1000	100	20
LD1000T150	Light Duty Galv Twisted	1000	150	20
LD1200T100	Light Duty Galv Twisted	1200	100	20

Restraint Straps

TRS, LD, HD & PWS

Heavy Duty Straps

Popular stock sizes are listed below but straps can be ordered to any length up to 15m.

Bent & twisted straps are on the following page.

Stainless Steel straps are also on the following page.

Code	Product	Product Dimensions (mm)		Bundle Qty.
		Overall length including bend or twist	Length of bend or twist	
Edge Coated Galvanised Steel - 4mm thick				
HD400B100	Heavy Duty Galv Bent	400	100	10
HD600B100	Heavy Duty Galv Bent	600	100	10
HD600B150	Heavy Duty Galv Bent	600	150	10
HD800B100	Heavy Duty Galv Bent	800	100	10
HD800B150	Heavy Duty Galv Bent	800	150	10
HD900B100	Heavy Duty Galv Bent	900	100	10
HD900B150	Heavy Duty Galv Bent	900	150	10
HD1000B100	Heavy Duty Galv Bent	1000	100	10
HD1000B150	Heavy Duty Galv Bent	1000	150	10
HD1200B100	Heavy Duty Galv Bent	1200	100	10
HD1200B150	Heavy Duty Galv Bent	1200	150	10
HD1300B100	Heavy Duty Galv Bent	1300	100	10
HD1300B150	Heavy Duty Galv Bent	1300	150	10
HD1400B150	Heavy Duty Galv Bent	1400	150	10
HD1500B100	Heavy Duty Galv Bent	1500	100	10
HD1500B150	Heavy Duty Galv Bent	1500	150	10
HD1600B100	Heavy Duty Galv Bent	1600	100	10
HD1600B150	Heavy Duty Galv Bent	1600	150	10
HD1800B150	Heavy Duty Galv Bent	1800	150	10
HD300F	Heavy Duty Galv Flat	300	-	10
HD400F	Heavy Duty Galv Flat	400	-	10
HD600F	Heavy Duty Galv Flat	600	-	10
HD800F	Heavy Duty Galv Flat	800	-	10
HD1000F	Heavy Duty Galv Flat	1000	-	10
HD1200F	Heavy Duty Galv Flat	1200	-	10
HD1300F	Heavy Duty Galv Flat	1300	-	10
HD1400F	Heavy Duty Galv Flat	1400	-	10
HD1500F	Heavy Duty Galv Flat	1500	-	10
HD1600F	Heavy Duty Galv Flat	1600	-	10
HD1800F	Heavy Duty Galv Flat	1800	-	10
HD2000F	Heavy Duty Galv Flat	2000	-	10
HD3000F	Heavy Duty Galv Flat	3000	-	10
HD3600F	Heavy Duty Galv Flat	3600	-	10
HD4000F	Heavy Duty Galv Flat	4000	-	10
HD400T100	Heavy Duty Galv Twisted	400	100	10
HD600T100	Heavy Duty Galv Twisted	600	100	10
HD800T100	Heavy Duty Galv Twisted	800	100	10
HD1000T100	Heavy Duty Galv Twisted	1000	100	10
HD1000T150	Heavy Duty Galv Twisted	1000	150	10
HD1200T100	Heavy Duty Galv Twisted	1200	100	10
HD1200T150	Heavy Duty Galv Twisted	1200	150	10
HD1400T100	Heavy Duty Galv Twisted	1400	100	10
HD1500T150	Heavy Duty Galv Twisted	1500	150	10
HD1600T100	Heavy Duty Galv Twisted	1600	100	10

Restraint Straps

TRS, LD, HD & PWS

Bent and Twisted Straps LD & HD

Popular stock sizes are listed below but straps can be ordered to any length up to 15m.

Code	Product	Product Dimensions (mm)			Bundle Qty.
		Overall length including bend & twist	Length of bend	Distance between bend & twist	
Pre Galvanised - 2.4mm thick x 27.5mm wide					
LIGHT DUTY RESTRAINT STRAP					
LD1000B100T	Light Duty Galv Bent & Twist	1000	100	100	20
LD1200B100T	Light Duty Galv Bent & Twist	1200	100	100	20
Edge Coated Galvanised Steel - 4mm thick x 27.5mm wide					
HEAVY DUTY RESTRAINT STRAP					
HD600B150T100	Heavy Duty Galv Bent & Twisted	600	150	100	10
HD800B150T100	Heavy Duty Galv Bent & Twisted	800	150	100	10
HD1000B100T	Heavy Duty Galv Bent & Twisted	1000	100	100	10
HD1000B150T100	Heavy Duty Galv Bent & Twisted	1000	150	100	10
HD1200B100T	Heavy Duty Galv Bent & Twisted	1200	100	100	10
HD1200B150T100	Heavy Duty Galv Bent & Twisted	1200	150	100	10
HD1400B150T100	Heavy Duty Galv Bent & Twisted	1400	150	100	10
HD1600B150T	Heavy Duty Galv Bent & Twisted	1600	150	100	10

Stainless Steel Straps LD & HD

Popular stock sizes are listed below but straps can be ordered to any length up to 15m.

Code	Product	Product Dimensions (mm)		Bundle Qty.
		Overall length including bend or twist	Length of bend or twist	
LIGHT DUTY RESTRAINT STRAP				
Stainless Steel - 2.4mm thick x 27.5mm wide				
LDSS600B100	Light Duty Stainless Bent	600	100	20
LDSS900B100	Light Duty Stainless Bent	900	100	20
LDSS1000B100	Light Duty Stainless Bent	1000	100	20
LDSS1200B100	Light Duty Stainless Bent	1200	100	20
LDSS1600B100	Light Duty Stainless Bent	1600	100	20
LDSS600F	Light Duty Stainless Flat	600	-	20
LDSS900F	Light Duty Stainless Flat	900	-	20
LDSS1000F	Light Duty Stainless Flat	1000	-	20
LDSS1200F	Light Duty Stainless Flat	1200	-	20
LDSS1600F	Light Duty Stainless Flat	1600	-	20
LDSS600T100	Light Duty Stainless Twisted	600	100	20
LDSS900T100	Light Duty Stainless Twisted	900	100	20
LDSS1000T100	Light Duty Stainless Twisted	1000	100	20
LDSS1200T100	Light Duty Stainless Twisted	1200	100	20
Stainless Steel - 4mm thick x 27.5mm wide				
HEAVY DUTY RESTRAINT STRAP				
HDSS600B100	Heavy Duty Stainless Bent	600	100	10
HDSS900B100	Heavy Duty Stainless Bent	900	100	10
HDSS1000B100	Heavy Duty Stainless Bent	1000	100	10
HDSS1200B100	Heavy Duty Stainless Bent	1200	100	10
HDSS1600B100	Heavy Duty Stainless Bent	1600	100	10
HDSS600F	Heavy Duty Stainless Flat	600	-	10
HDSS900F	Heavy Duty Stainless Flat	900	-	10
HDSS1000F	Heavy Duty Stainless Flat	1000	-	10
HDSS1200F	Heavy Duty Stainless Flat	1200	-	10
HDSS1600F	Heavy Duty Stainless Flat	1600	-	10
HDSS600T100	Heavy Duty Stainless Twisted	600	100	10
HDSS900T100	Heavy Duty Stainless Twisted	900	100	10
HDSS1000T100	Heavy Duty Stainless Twisted	1000	100	10
HDSS1200T100	Heavy Duty Stainless Twisted	1200	100	10
HDSS1600T100	Heavy Duty Stainless Twisted	1600	100	10

Restraint Straps

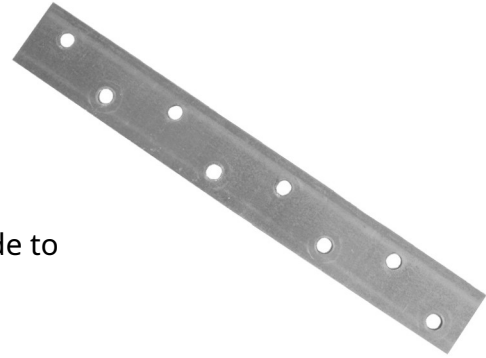
TRS, LD, HD & PWS

Party Wall Strap **PWS**

A timber frame strap for connecting separating walls in attached dwellings.

Multi holed 6mm.

Standard stock sizes are listed but special sizes can be made to order.



SPECIFICATION

Galvanised steel EN 10346 DX51D Z275

Hole patterns may vary

2.4mm thick

PWS

INSTALLATION

Fix using 3.75 x 30 galvanised square twist nails or 4mm screws.

Code	Product	Product Dimensions (mm)		6mm holes	Box Qty.
		Length	Width		
Pre Galvanised - 2.4mm					
PWS200	Party Wall Strap 200mm	200	28	8	100
PWS220	Party Wall Strap 220mm	220	28	12	100
PWS250	Party Wall Strap 250mm	250	28	12	100