

LES
Light Engineered Restraint Strap

A direct replacement for traditional restraint straps, the innovative design of these lightweight straps allows ease of handling and installation whilst maintaining the structural strength and robustness of much heavier weight types. The HES (heavy engineered strap) & LES (light engineered strap) replace traditional heavy and light restraint straps in roof and floor construction. Reducing the thickness allows the LES strap to span the bottom chords of trusses and over floor joists without the need for notching. LES straps are less than 40% of the weight, quicker to fit, and overcome many fixing problems associated with traditional heavy straps. The LES is designed for vertical applications e.g. holding down wall plates.

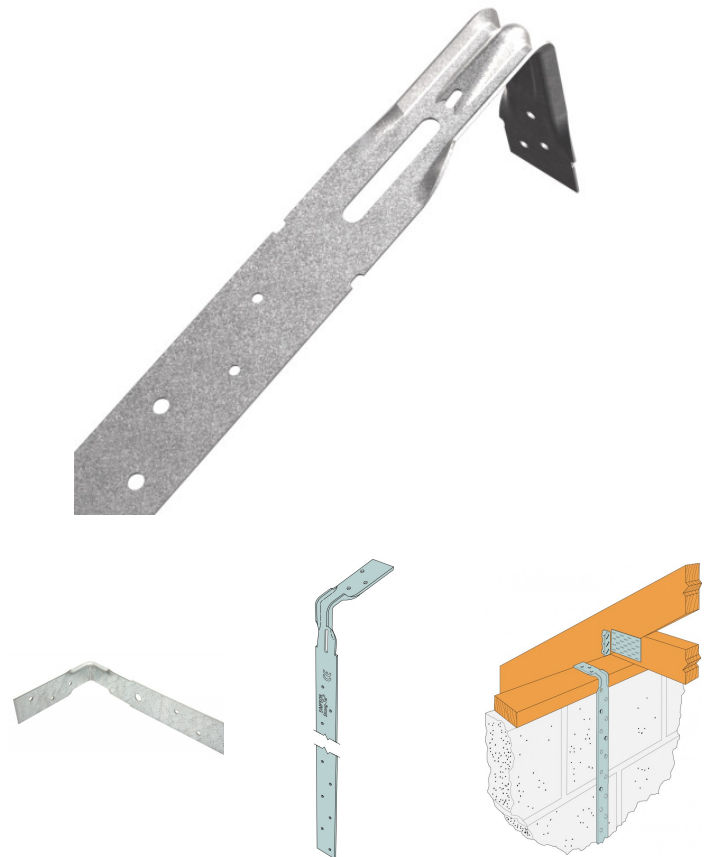
- Formed edge design gives additional strength on bend
- Quicker to install - can fit over top of floor joists and truss bottom chords
- Easier to course with blockwork
- No need to notch joists
- Complies with BS EN 845-1

Features

Material

- Pre-galvanised mild steel

CE



 **registered**
LABC
Certificate numbers: HES:
RD1160211A LES:
RD1160211B

Technical Data

LES Product Dimensions

References	Installation Type	Dimensions [mm]				Holes		
		A	B1	B2	t	Flange B2	Flange B1	
						Ø4.1	Ø4.1	Ø6.1
LES06B10	Vertical	35	500	100	1.2	3	8	8
LES08B10	Vertical	35	700	100	1.2	3	12	12
LES10B10	Vertical	35	900	100	1.2	3	16	16
LES12B10	Vertical	35	1100	100	1.2	3	20	20

LES Performance Values

References	Fasteners			Characteristic Load [kN]
	Masonry Wall	Floor Joist or Rafter	Wall Plate	
LES	5 - 5.5x50mm Wood Screws	-	3 - N3.75x30	4

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Installation

Installation

Horizontal strap installation

- Approved Document A of the Building Regulations requires lateral restraint to be provided at each floor at a maximum of 2 metre centres
- Restraint straps “perpendicular” to the floor joists are required to be held tight against the masonry and fixed across the first 3 joists
- Restraint straps “parallel” to the floor joists are required to be held tight to the masonry and be at least 1200mm long
- The characteristic tensile strength for horizontal restraint straps should not be less than 8kN

Vertical strap installation

- Vertical strapping, at least 1 metre in length, should be provided at eaves level to hold down timber wall plates, at intervals not exceeding 2 metres

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