

16A FIRE RATED LADDER AND SHAPED ACCESSORIES



TESTED AND APPROVED TO AS3013.2005 CLASSIFICATION WS5X

UNISTRUT®

A BRAND OF  **atkore**
INTERNATIONAL

Unistrut Australia has been successful in having the new “FR” series NFI VA 16A Cable ladders, Bends, Risers and Tees, certified to AS3013:2005 appndix B Classification WS5X (2hours), at 1050°c

This rating applies to:

- Ladder widths of 150mm, 300mm, 450 & 600mm
- Ladder Shaped Accessories with a radius of 450mm
- Loading of 50kg/m over 1.5m span.

Unistrut is the only manufacturer to fully comply with this standard across the full range of the new “FR” Series NEMA 16A Cable Ladder and Shaped Accessories.

Fire Rated Ladder Installation

Unistrut offers the M12 FireSet Drop In Anchor and Threaded Rod (Installation tool available from Unistrut)

Concrete slab threaded insert compliant to AS1530.4

2 hours fire protection

M12 FireSet Anchor

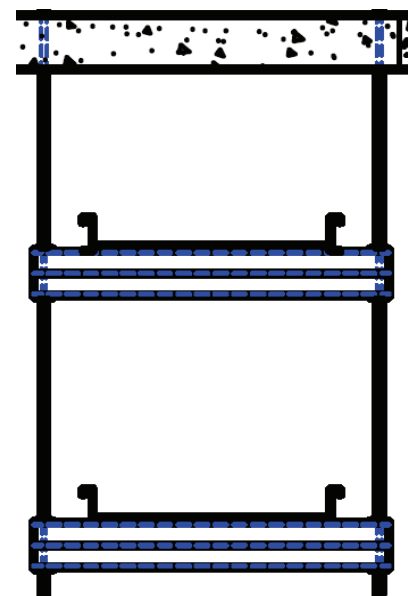
- Max Tensile Load 7.7kN; 785 Kg Force load
- Max Shear Load 6.6kN; 673 Kg Force load
- Anchor length 50mm | Thread length 21mm
- 16mm OD Hole | 53mm Deep

UR12 Threaded Rod

- Max Tensile Load of 13.48kN; 1,374 Kg Force load
- Near double that of the M12 FireSet Anchor

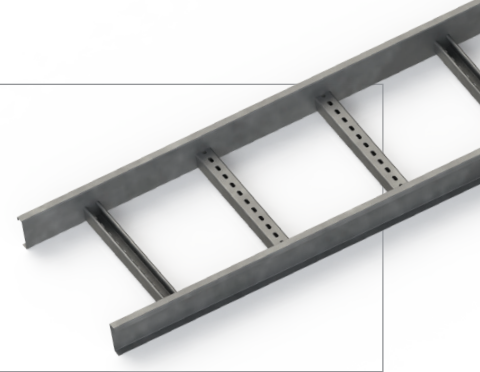


ITEM	WEIGHT	SINGLE TRAPEZE LOAD PER 1500MM SPAN	LOAD PER THREADED ROD	DOUBLE TRAPEZE LOAD PER 1500MM SPAN	LOAD PER THREADED ROD
FIRERATED 16A LADDER 600W HG 6M	50.51	12.63		6m	
Load 50Kg/Mt over 6Mt	300.00	75.00		150.00	
FIRE RATED TRAPEZE BAR 880L HG	6.20	6.20		12.40	
All weights are Kilogram		93.83	46.92	187.66	93.83



Unistrut FRLEG Fire rated ladder tray is based on NEMA 16A Hot dipped Gal steel cable ladder. To achieve full compliance to AS3013.2005 ladder must be supported by the patented Trapeze bars at 1500mm spacing's. This allows a loading of 50kg per meter.

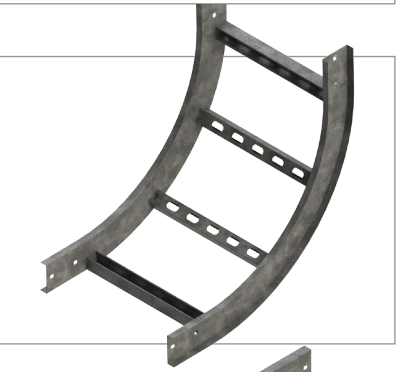
LADDER CODE	DESCRIPTION	WIDTH	CABLE LAYING DEPTH	LENGTH
FRLEG101	16A Ladder Hot dipped Gal	150mm	48mm	6m
FRLEG103	16A Ladder Hot dipped Gal	300mm	48mm	6m
FRLEG104	16A Ladder Hot dipped Gal	450mm	48mm	6m
FRLEG106	16A Ladder Hot dipped Gal	600mm	48mm	6m



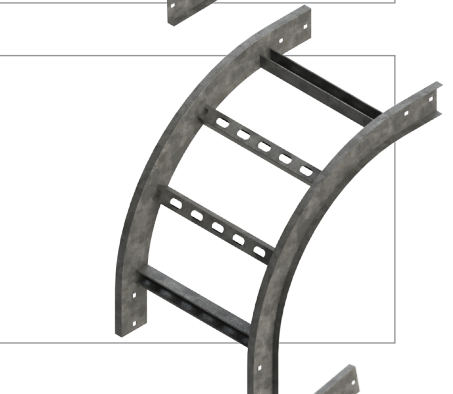
BEND CODE	DESCRIPTION	WIDTH	CABLE LAYING DEPTH	BEND RADIUS
FRLEG111R4	16A 90 Degree Bend Hot dipped Gal	150mm	48mm	450mm
FRLEG111R4	16A 90 Degree Bend Hot dipped Gal	300mm	48mm	450mm
FRLEG111R4	16A 90 Degree Bend Hot dipped Gal	450mm	48mm	450mm
FRLEG111R4	16A 90 Degree Bend Hot dipped Gal	600mm	48mm	450mm



INTERNAL RISER CODES	DESCRIPTION	WIDTH	CABLE LAYING DEPTH	BEND RADIUS
FRLEG121R4	16A 90 Degree Internal riser Hot dipped Gal	150mm	48mm	450mm
FRLEG121R4	16A 90 Degree Internal riser Hot dipped Gal	300mm	48mm	450mm
FRLEG121R4	16A 90 Degree Internal riser Hot dipped Gal	450mm	48mm	450mm
FRLEG121R4	16A 90 Degree Internal riser Hot dipped Gal	600mm	48mm	450mm



EXTERNAL RISERS	DESCRIPTION	WIDTH	CABLE LAYING DEPTH	BEND RADIUS
FRLEG131R4	16A 90 Degree External riser Hot dipped Gal	150mm	48mm	450mm
FRLEG131R4	16A 90 Degree External riser Hot dipped Gal	300mm	48mm	450mm
FRLEG131R4	16A 90 Degree External riser Hot dipped Gal	450mm	48mm	450mm
FRLEG131R4	16A 90 Degree External riser Hot dipped Gal	600mm	48mm	450mm



TEE'S	DESCRIPTION	WIDTH	CABLE LAYING DEPTH	BEND RADIUS
FRLEG191R4	16A 90 Degree Tee Hot dipped Gal	150mm	48mm	450mm
FRLEG191R4	16A 90 Degree Tee Hot dipped Gal	300mm	48mm	450mm
FRLEG191R4	16A 90 Degree Tee Hot dipped Gal	450mm	48mm	450mm
FRLEG191R4	16A 90 Degree Tee Hot dipped Gal	600mm	48mm	450mm



The FRL fire rated system is only compliant when used with the Unistrut patented Trapeze mounting bars, Risers need to be supported with the FRLRSBH bracket. Full installation guidance is provided on order placement, for pricing of a fully compliant system please contact your Unistrut sales office. Copies of certificates provided on completion of installation.

MOUNTINGS	DESCRIPTION	SPACING
FRLTB150H	Trapeze Bar for FRLEG101	1500mm
FRLTB300H	Trapeze Bar for FRLEG103	1500mm
FRLTB450H	Trapeze Bar for FRLEG104	1500mm
FRLTB600H	Trapeze Bar for FRLEG106	1500mm
FRLRSBH	Riser support bracket	NA
ACCESSORIES	DESCRIPTION	
FRHAD12F	Fireset Anchors 12mm	
FRHAD12	Set Tool M12 ZP	
LEG30	Splice plates	
LEG40	Bolts	
LEG41	Nuts	

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