

# FR-02/FR-05 | HLS - Illuminated Wind Direction Indicator (IWDI)

## Windsock Assembly

### Illuminated Wind Direction Indicator (IWDI)

- designed to comply with [CASA Guidelines for HLS assemblies](#)
- Surface level HLS: Stainless Steel Windsock Dual Frame (FR-02) 600mm Ø diameter. Designed for CASA 2400mm length Windsock
- Elevated HLS: Stainless Steel Windsock Dual Frame (FR-05) 450mm Ø diameter, suits 1800mm length Windsock. Other options down to 1200mm length also available
- illuminated with CASA compliant dual obstruction beacon, or lower intensity beacon if required, and 4 LED Flood Lights
- multiple pole options, ranging from 6m Heavy-Duty counterweighted Mid-Hinging Pole, to 4/5m Swivel Pole or 2m Swivel Pole (elevated HLS)
- all pole options eliminate the need for working at heights equipment - with all work being carried out at ground level
- All components manufactured in Australia



# FR-02/FR-05 | Illuminated Wind Direction Indicator (IWDI)

## IWDI

Windssocks Australia's Illuminated Wind Direction Indicator (IWDI) Windsack frame has been custom designed and developed to be a very robust, 'fit for purpose' solution for Australian needs.

The IWDI is available in a 600mm diameter for HLS surface level installations; 450mm diameter for an elevated helipad (or down to 300mm if required).

All components are manufactured in Australia.

Technical Details	600mm Ø diameter Dual Illuminated Frame FR-02	450mm Ø diameter Dual Illuminated Frame FR-05
Suitable for	IWDI for surface level HLS (Helicopter Landing Sites) in line with CASA regulations	IWDI for elevated HLS (Helicopter Landing Sites) in line with CASA regulations
Size	600mm Ø Mouth	450mm Ø Mouth
Windsack Size	2400mm length	1800mm length
Materials	Frame structure – corrosion resistant 304 stainless steel Sealed Bearings 2 sets – 316 stainless steel Cross Arm Structure – for attaching illumination - corrosion resistant 304 stainless steel	Frame structure – corrosion resistant 304 stainless steel Sealed Bearings 2 sets – 316 stainless steel ross Arm Structure – for attaching illumination - corrosion resistant 304 stainless steel
Weight	~ 10kg	~10kg
Overall height from base	~920mm	~830mm
Max wind rating	135.7km/hr (at 8m height) for Wind Region A, Cat 1.5. The Windsack and potentially the IWDI should be removed in strong winds	135.7km/hr (at 8m height) for Wind Region A, Cat 1.5. The Windsack and potentially the IWDI should be removed in strong winds
Installation	Attached via Adaptor Plate to pole top	Attached via Adaptor Plate to pole top
Inspection	Recommended bi-annually to check welds, bearings, Windsack	Recommended bi-annually to check welds, bearings, Windsack
Design Life – Warranty	Warranted at 5 years with a design life of > 20 years with regular inspection	Warranted at 5 years with a design life of > 20 years with regular inspection

The above tables are intended as a guide only and may vary from time to time.

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## Windsock Illumination

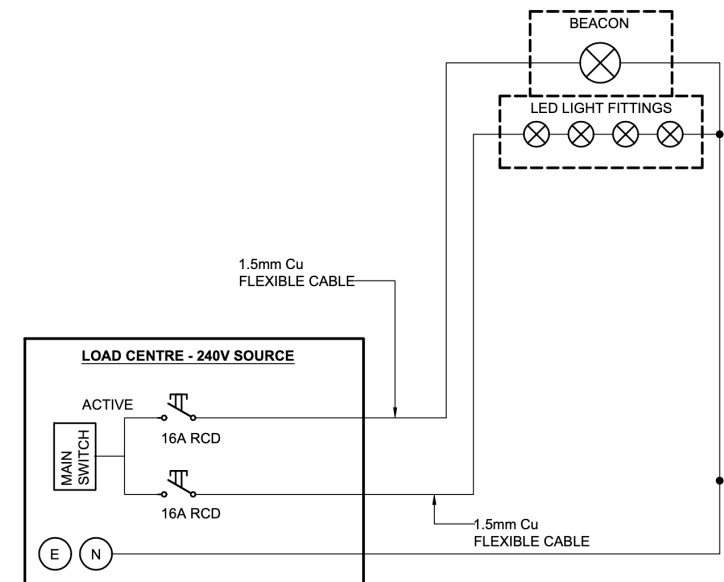
Windsocks Australia's Illuminated Wind Direction Indicator (IWDI) Windsock frame uses CASA compliant Dual Beacon or Single Beacon and high intensity LED flood lights for illumination

Technical Details	
LED Light Fittings – 4 installed	600mm & 450mm Ø Dual Illuminated Frame FR-02 / FR-05 up to 50W, 240V, LED Flood Lights - will vary depending on light glare considerations For CASA MOS 139 (9.38) 50W, 240V, Castle III XS LED Flood Luminaire
Beacon – Dual Light fixtures or Single Light (HLS)	Industry leading beacons provided through Dialight for Vigilant LED Based L-810 beacons Designed for steady burning, this fixture is used to mark any obstacle that may present hazards to aircraft navigation 860-7R02-002 Dual Light 230V AC CASA compliant, Lower intensity Single Light available for surface level or elevated HLS
Pre-Wiring	Pre-wiring pole installation cabling and testing of all wiring as per AS3000

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Beacon and LED Lights pre-wired for final installation at site (licenced electrician required)



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## Hinging/ Swivel Pole



Technical Details	MH6BHH - 6M Mid Hinged Heavy Duty Pole	3-5M F7 Swivelpole
Application	Surface level HLS for which a HD pole is designated. Supports CASA Dual Beacon and high intensity LED Flood Lights	Surface level or Elevated HLS. Supports Single Beacon and low intensity LED Flood Lights
Height	typically 6m, up to 10/12m available	Surface level HLS: 4-5m. Elevated HLS, 2-3m
Materials	Hot dipped Galvanised Steel	Hot dipped Galvanised Steel
Weight	~ 280kg	~20-30kg
Hinging Method	Mid hinging, with top section counter weighted	Swivel ~ 1m up from ground level
Installation	Reinforcement Cage & 24mm Hot Dipped Galvanized Foundation Bolts, 4 x M24 @ 350PCD. Fully Assembled & Welded. Full pole installation documentation provided. Alternatively can be secured to suitable pre-cast concrete slab	Reinforcement Cage & Hot Dipped Galvanized Foundation Bolts, @ 184PCD. Full pole installation documentation provided. Alternatively can be secured to suitable pre-cast concrete slab
Inspection	Recommended bi-annually	Recommended bi-annually
Design Life - Warranty	Warranted at 5 years with a design life of > 20 years with regular inspection	Warranted at 5 years with a design life of > 20 years with regular inspection
Australian Standards	Designed to meet Australian Standards, including resultant wind actions in structural designs. Individual computerised engineering is available on all poles.	Designed to meet Australian Standards, including resultant wind actions in structural designs. Individual computerised engineering is available on all poles.

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# Windssocks Australia Overview

Our aim is to be the leading supplier of Quality Windssock solutions in Australia and the Asia Pacific region

Founded in 2003, Windssocks Australia is the premier specialist commercial & industrial Windssocks manufacturer in Australia. Handcrafting our products 100% in Australia using the best materials to ensure the highest quality standards.

We have delivered thousands of commercial and industrial windssock solutions throughout Australia, New Zealand, Papua New Guinea and Asia Pacific.

Benefit from our knowledge to assist in getting the right windssock solution for your requirements.

Our success is built on a reputation for:

- High-quality products
- Extensive product knowledge
- Competitive pricing
- A commitment to innovation
- Dedication with excellent customer service
- Strong relationships with reputable manufacturers



Proud supplier to Perth Airport and many other major and regional airports around Australia, New Zealand and the Asia Pacific

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