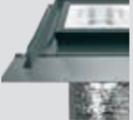
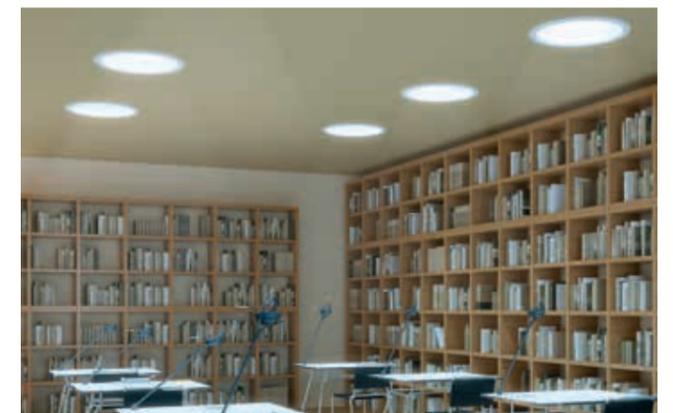


# SFD-\_, SFD-\_/L, SF\_, SF\_-L

## LIGHT TUNNELS WITH FLEXIBLE LIGHT TRANSMITTING TUBE

LIGHT TUNNEL TYPE	SFD-_ 	SFD-_/L 	SF_ 	SF_-L 
	with dome	with dome with illumination function	flat	flat with illumination function
<b>I. APPLICATION</b>				
Installation	installation angle 15°-60°			
Flashing	The flashing integrated with the frame is made of 0.6 mm thick aluminium sheet metal coated with lacquer in RAL 7022. Apron of the flashing (Z and H version) is pleated and made of aluminium and plastic.			
<b>II. FEATURES</b>				
Characteristics	The dome is made of a polycarbonate material resistant to UV radiation. Average thickness of the dome is 3.2 mm. The frame is made of vacuum impregnated wood.		The sash is made of extruded aluminium profile coated in RAL 7022. 4mm thick toughened glass is bonded into an aluminium profile. The frame is made of vacuum impregnated wood.	
Tube structure	Flexible light transmitting tube is made of metallised polyester, additionally reinforced with 1.2 mm thick metal wire. Standard length of 210 cm ensures an easy way to bypass any structural obstacles.			
Ceiling element	A diffuser is made of acrylic (PMMA). A cover element is made of ABS material.		Made of acrylic (PMMA) with built-in diffuser. The cover of ceiling frame is made of white plastic (HIPS.)	
Control	maintenance-free			
Warranty	7 years			
<b>III. TECHNICAL PARAMETERS</b>				
Thermal insulation	350 - 2.0 W/(m²K) 550 - 1.9 W/(m²K) as per PN-EN 1873+A1:2016-03		≤ 2.0 W/m²K- 350mm ≤ 1.9 W/m²K- 550mm wg PN-EN 1873+A1:2016-03	
Air permeability	class 4 as per PN-EN 12207:2017-01		class 4 as per PN-EN 12207:2017-01	
Watertightness. Unshielded (A)	meets as per PN-EN 1873:2014-07		meets as per PN-EN 1873:2014-07	
Impact resistance - hard body	meets as per PN-EN 1873:2014-07		meets as per PN-EN 1873:2014-07	
Impact resistance - soft body	SB 800 as per PN-EN 1873:2014-07		class SB 800 as per PN-EN 1873:2014-07	
Tearing out load resistance	UL3000 as per PN-EN 1873:2014-07		class UL 3000 as per PN-EN 1873:2014-07	
Clamping load resistance	DL2500 as per PN-EN 1873:2014-07		class DL 2500 as per PN-EN 1873:2014-07	
<b>IV. OPTIONS</b>				
	It is possible to extend light transmitting tube: 350 mm diameter – maximum recommended: 400 cm, 550 mm diameter – maximum recommended: 600 cm			
<b>V. ADDITIONAL PRODUCTS TO BE USED</b>				
Accessories for light tunnels	- SLM flexible light transmitting tube extension element - SLC hanger - SLO light kit			

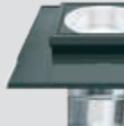
VI. TECHNICAL PARAMETERS FOR LIGHT TUNNELS IN PARTICULAR SIZES								
LIGHT TUNNEL TYPE	SFD-_ 		SFD-_/L 		SF_ 		SF_-L 	
light tunnel diameter [mm]	350	550	350	550	350	550	350	550
tube length [cm]	210	210	210	210	210	210	210	210
maximum tube length [cm]	400	600	400	600	400	600	400	600
light tunnel weight without flashing [kg]±1kg	–	–	–	–	–	–	–	–
light tunnel weight with S type flashing [kg]±1kg	10.4	15.4	10.4	15.4	7.8	13.0	7.8	13.0
light tunnel weight with L type flashing [kg]±1kg	10.6	15.7	10.6	15.7	8.0	13.0	8.0	13.0
light tunnel weight with Z type flashing [kg]±1kg	10.9	16.1	10.9	16.1	8.5	13.7	8.5	13.7
light tunnel weight with H type flashing [kg]±1kg	10.9	16.3	10.9	16.3	9.0	14.5	9.0	14.5



# TECHNICAL SPECIFICATION

## SRD-\_, SRD-\_/L, SR\_, SR\_-L

LIGHT TUNNELS WITH RIGID LIGHT TRANSMITTING TUBE

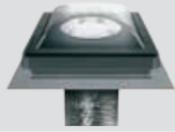
LIGHT TUNNEL TYPE	SRD-_ 	SRD-_/L 	SR_ 	SR_-L 
	with dome	with dome with illumination function	flat	flat with illumination function
<b>I. APPLICATION</b>				
Installation	installation angle 15°-60°			
Flashing	The flashing integrated with the frame is made of 0.6 mm thick aluminium sheet metal coated with lacquer in RAL 7022. Apron of the flashing (Z and H version) is pleated and made of aluminium and plastic.			
<b>II. FEATURES</b>				
Characteristics	The dome is made of a polycarbonate material resistant to UV radiation. Average thickness of the dome is 3.2 mm. The frame is made of vacuum impregnated wood.		The sash is made of extruded aluminium profile coated in RAL 7022. 4mm thick toughened glass is bonded into an aluminium profile. The frame is made of vacuum impregnated wood.	
Tube structure	The tube is made of 0.5 mm thick aluminium sheet metal covered with Miro-Silver reflective layer. Coating reflectivity – 98%. Length of a single section of light transmitting tube is 61 cm.			
Ceiling element	A diffuser is made of acrylic (PMMA). A cover element is made of ABS material.		Made of acrylic (PMMA) with built-in diffuser. The cover of ceiling frame is made of white plastic (HIPS.)	
Control	maintenance-free			
Warranty	7 years			
<b>III. TECHNICAL PARAMETERS</b>				
Thermal insulation	250- 2.1 W/(m²K) 350- 2.0 W/(m²K) 550- 1.9 W/(m²K) as per PN-EN 1873+A1:2016-03		≤ 2.1 W/m²K- 250mm ≤ 2.0 W/m²K- 350mm ≤ 1.9 W/m²K- 550mm as per PN-EN 1873+A1:2016-03	
Air permeability	class 4 as per PN-EN 12207:2017-01		class 4 as per PN-EN 12207:2017-01	
Watertightness. Unshielded (A)	meets as per PN-EN 1873:2014-07		meets as per PN-EN 1873:2014-07	
Impact resistance - hard body	meets as per PN-EN 1873:2014-07		meets as per PN-EN 1873:2014-07	
Impact resistance - soft body	class SB 800 as per PN-EN 1873:2014-07		class SB 800 as per PN-EN 1873:2014-07	
Tearing out load resistance	class UL 3000 as per PN-EN 1873:2014-07		class UL 3000 as per PN-EN 1873:2014-07	
Clamping load resistance	DL 2500 as per PN-EN 1873:2014-07		DL 2500 as per PN-EN 1873:2014-07	
<b>IV. OPTIONS</b>				
	It is possible to extend light transmitting tube: maximum recommended length for 250 mm diameter is 600 cm, for other ones it is 1200 cm (over 400 cm hangers must be applied).			
<b>V. ADDITIONAL PRODUCTS TO BE USED</b>				
Accessories for light tunnels	- SLM rigid light transmitting tube extension element (61 cm long) - SRK elbow - SLC hanger - SLO light kit			

VI. TECHNICAL PARAMETERS FOR LIGHT TUNNELS IN PARTICULAR SIZES												
LIGHT TUNNEL TYPE	SRD-_ ● ● ●			SRD-_/L ● ● ●			SR_ ● ● ●			SR_-L ● ● ●		
light tunnel diameter [mm]	250	350	550	250	350	550	250	350	550	250	350	550
tube length [cm]	210	210	180	210	210	180	210	210	180	210	210	180
maximum tube length [cm]	600	1200	1200	600	1200	1200	600	1200	1200	600	1200	1200
light tunnel weight without flashing [kg]±1kg	–	–	–	–	–	–	–	–	–	–	–	–
light tunnel weight with S type flashing [kg]±1kg	9.4	13.5	17.0	9.4	13.5	17.0	7.7	10.6	16.0	7.7	10.7	16.1
light tunnel weight with L type flashing [kg]±1kg	9.6	13.7	17.0	9.6	13.7	17.0	7.8	10.7	16.1	7.8	10.8	16.3
light tunnel weight with Z type flashing [kg]±1kg	9.9	14.1	17.8	9.9	14.1	17.8	8.2	11.2	17.0	8.2	11.2	17.0
light tunnel weight with H type flashing [kg]±1kg	10.0	14.0	17.8	10.0	14.0	17.8	8.2	11.3	17.1	8.2	11.3	17.1



# SFF, SRF

## FLAT ROOF LIGHT TUNNELS

LIGHT TUNNEL TYPE	SFF
	
	<b>with flexible light transmitting tube</b>
<b>I. APPLICATION</b>	
Installation	installation angle 0°-15°
Base of the light tunnel	base is filled inside with insulation material to secure excellent thermal insulation performance.
<b>II. FEATURES</b>	
Dome	The dome is made of a polycarbonate material which is resistant to UV radiation. Average thickness of the material – 3 mm.
Tube	Flexible light transmitting tube is made of metallised polyester, additionally reinforced with metal wire. Standard tube length – 210cm.
Ceiling element	Made of acrylic (PMMA) with built-in diffuser. The cover of ceiling frame is made of white plastic (HIPS)
Control	maintenance-free
Warranty	7 years
<b>III. TECHNICAL PARAMETERS</b>	
Thermal insulation	≤ 1.9 W/(m²K) - 550 mm, ≤ 2.0 W/(m²K) - 350 mm, as per PN-EN 1873:2009, PN-EN ISO 10211:2008
Air permeability	Class 3 as per PN-EN 12207:2001
Watertightness – unshielded (A)	Meets as per PN-EN 1873:2009
Impact resistance – hard body	Meets as per PN-EN 1873:2009
Impact resistance – soft body	SB 1200
Tearing out load resistance	UL 3000 as per PN-EN 1873:2009
Clamping load resistance	DL 2500 as per PN-EN 1873:2009
<b>IV. OPTIONS</b>	
-	
<b>V. ADDITIONAL PRODUCTS TO BE USED</b>	
Accessories for light tunnels	- SLM flexible light transmitting tube extension element with a length of 120cm - SLC hanger

LIGHT TUNNEL TYPE	SRF
	
	<b>with rigid light transmitting tube</b>
<b>I. APPLICATION</b>	
Installation	installation angle 0°-15°
Base of the light tunnel	base is filled inside with insulation material to secure excellent thermal insulation performance.
<b>II. FEATURES</b>	
Dome	The dome is made of a polycarbonate material which is resistant to UV radiation. Average thickness of the material – 3 mm.
Tube	The tube is made of 0.5mm thick aluminium sheet metal covered with Miro-Silver reflective layer. Coating reflectivity – 98%. Length of a single section of light transmitting tube: 0.61m
Ceiling element	Made of acrylic (PMMA) with built-in diffuser. The cover of ceiling frame is made of white plastic (HIPS)
Control	maintenance-free
Warranty	7 years
<b>III. TECHNICAL PARAMETERS</b>	
Thermal insulation	≤ 1.9 W/(m²K) - 550 mm, ≤ 2.0 W/(m²K) - 350 mm, as per PN-EN 1873:2009, PN-EN ISO 10211:2008
Air permeability	Class 3 as per PN-EN 12207:2001
Watertightness – unshielded (A)	Meets as per PN-EN 1873:2009
Impact resistance – hard body	Meets as per PN-EN 1873:2009
Impact resistance – soft body	SB 1200
Tearing out load resistance	UL 3000 as per PN-EN 1873:2009
Clamping load resistance	DL 2500 as per PN-EN 1873:2009
<b>IV. OPTIONS</b>	
-	
<b>V. ADDITIONAL PRODUCTS TO BE USED</b>	
Accessories for light tunnels	- SRM rigid light transmitting tube extension element with a length of 61cm - SRK elbow - SRC hanger

VI. TECHNICAL PARAMETERS FOR LIGHT TUNNELS IN PARTICULAR SIZES				
LIGHT TUNNEL TYPE	SFF		SRF	
light tunnel diameter [mm]	350	550	350	550
				
tube length [cm]	210	210	61	61
maximum tube length [cm]	400	600	1200	1200
light tunnel weight [kg]±1kg	15	21	15	21
Kit contents	- 1x dome, - 1x roof base, - 1x ceiling frame with integrated diffuser and 2.1m long tube, - 1x ceiling camouflage - 1x installation kit		- 1x dome, - 1x roof base, - 1x ceiling frame with integrated diffuser - 1x SRM tube (0,61 cm) - 1x ceiling camouflage - 1x installation kit	