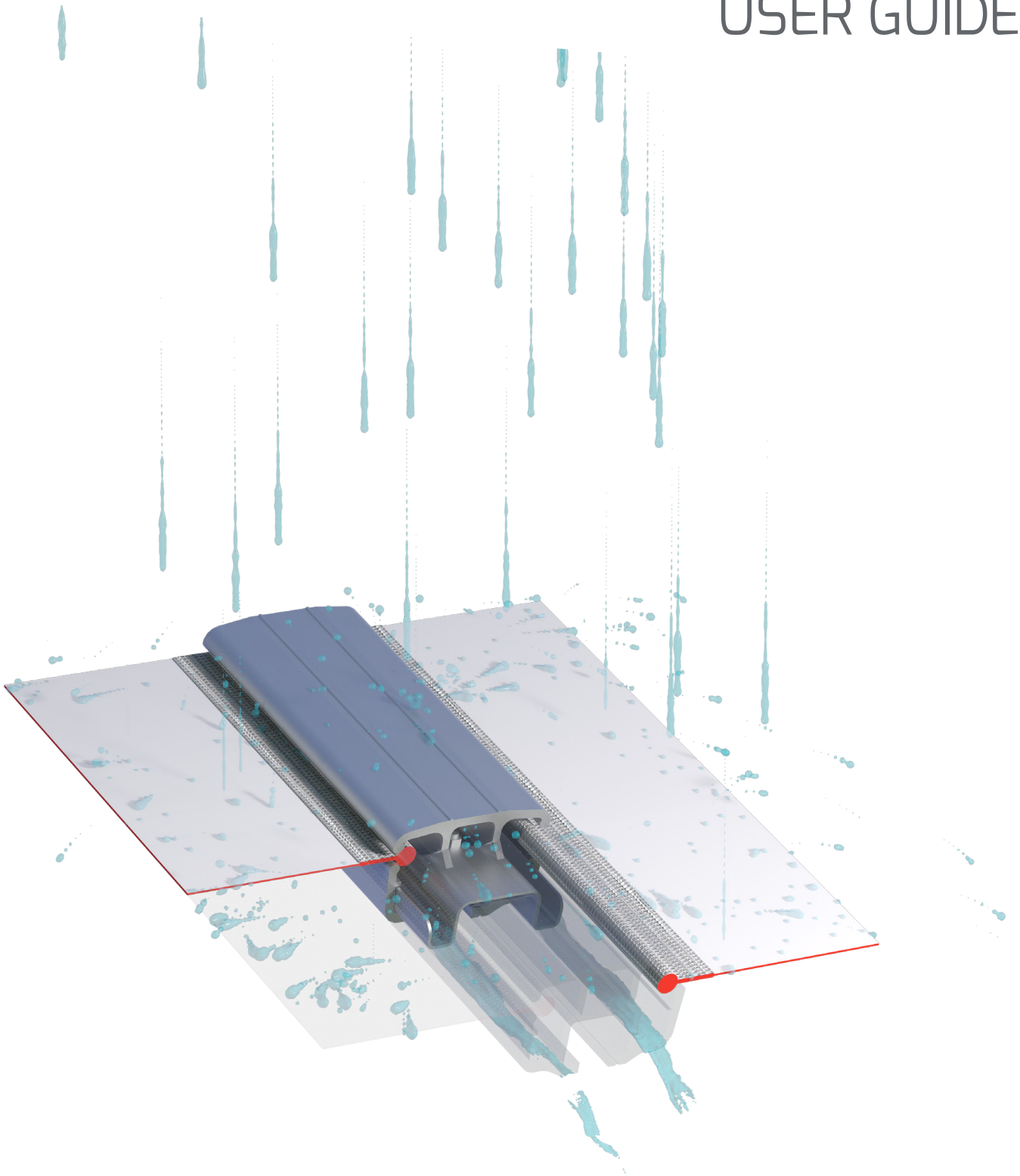


DEEP FLOW™

USER GUIDE



Foreword

DESSA offers efficient lightweight temporary roofing, encapsulation solutions, aluminium lattice girders and safety products. DESSA's unique and distinctive aluminium solutions are suitable for not only grandstands, stages and events but also public utility works, local authorities, government buildings, historic buildings, highways, bridges and industrial market sectors. Time proven on demanding and complex applications across varied climates throughout the UK, Canada, UAE, Australia and Europe, DESSA offer unrivalled span capabilities and alternative configurations. From a choice of roofing solutions and general purpose lattice girders providing unrivalled cost to strength ratio, to high capacity lattice girders complete with a dedicated bracing system, we provide the industry with an ever widening range of cost effective products along with extensive after sales support to the highest professional standards. At DESSA we develop innovative and practical solutions for the support, access and weather protection industries. All of our designs are technically proven and are registered with protected design rights meaning only DESSA can offer superior solutions through our products. Our senior management team at DESSA offer considerable experience in the fields of contracting, engineering, manufacture and customer service. Having introduced a number of class leading products into the UK market, we have worked closely with a number of key clients in developing bespoke solutions to their problems which we manufacture on an exclusive basis.

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1.0 Key features


DeepFlow™ tracking is a heavy duty aluminium profile with integral gutter system which allows for the installation of sheeting to temporary roofs or side wall cladding elements.

Features and benefits include:

- Integrated joining method - less parts on site, eliminating manual assembly
- Efficient rainwater channelling using integrated sealed spigot
- Fully compatible with existing DESSA roofing systems
- Strong aluminium profile enabling 2.0-2.4 bracing intervals
- Removable spigot to enable staggered bays if required
- Increased weatherproofing
- Profiled sections engage into each other to ensure rigid and consistent stacking



2.0 Catalogue

DESCRIPTION	PART No	WEIGHT (kg)	DIM 1 (m)	DIM 2 (m)
UNIROOF				
<u>Uni DeepFlow™ Ridge Track 18°</u> 	US0018	3.94	1.32	0.24
<u>Uni DeepFlow™ Ridge Track 36°</u> 	US0036	5.97	1.78	0.59
<u>Uni DeepFlow™ Eaves Track 18°</u> 	US0218	4.91	1.03	0.85
Asterix HD				
<u>Asterix HD Ridge Track 18°</u> 	US0118	6.78	2.18	0.38
<u>Asterix HD Ridge Track 36°</u> 	US0236	4.11	1.23	0.38

DESCRIPTION	PART No	WEIGHT (kg)	DIM 1 (m)	DIM 2 (m)
<u>Asterix HD Eaves Track 18°</u> 	US0236	6.40	1.39	1.31
<u>Universal Components</u>				
<u>DeepFlow™ Track End Piece</u> Special aluminium Keder profile. Provides seamless sheeting throughout the roof length. Higher profile section provides advanced weatherproofing. Spigotless end piece to be used with the DESSA track compressor (UA0005) and when building staggered bay roofs. 	US0001	2.58	1.00	0.04
<u>DeepFlow™ Track Spigotted End Piece</u> Special aluminium Keder profile. Provides seamless sheeting throughout the roof length. Higher profile section provides advanced weatherproofing. Spigotted end piece to be used with the DESSA track compressor (UA0005) on the upper end of monopitch roofs. 	US0002	2.6	1.02	0.04
<u>DeepFlow™ Track</u> Special aluminium Keder profile supplied in various lengths. Provides seamless sheeting throughout the roof length. Higher profile section and spigot placement provide advanced weatherproofing. 	US1000 US2000 US3000 US4000 US5000 US6000	2.65 5.23 7.82 10.44 13.00 15.60	1.00 2.00 3.00 4.00 5.00 6.00	0.04
<u>DeepFlow™ Alloy Track Spigot</u> Optional component to connect installed tracks together during installation. Provides additional stiffness at unsupported joints, and allows non-spigotted sections to be joined together where required. 	UA0035	0.24	0.10	0.04

3.0 Technical data

		PERMISSIBLE LOADINGS (SNOW/ WIND) (kN/m², m/s, mph)			
		SINGLE BUTTON NUT		PAIR OF BUTTON NUTS	
		TRACK SUPPORT CENTRES (M)			
		1	2	1	2
BAY WIDTH	1	8.6 / 118.4 / 265	4.3 / 83.8 / 187	17.1 / 166.5 / 374	8.6 / 118.4 / 265
	1.088	7.9 / 113.5 / 254	3.9 / 79.8 / 179	15.8 / 156.4 / 359	7.9 / 113.5 / 254
	1.5	5.7 / 96.4 / 216	2.9 / 68.8 / 153	11.4 / 134 / 305.4	5.7 / 96.4 / 216
	1.572	5.5 / 94.7 / 211	2.7 / 66.4 / 149	10.9 / 127.7 / 299	5.5 / 94.7 / 211
	2	4.3 / 83.8 / 187	2.1 / 58.5 / 132	8.6 / 118.4 / 265	4.3 / 83.8 / 187
	2.072	4.1 / 81.8 / 184	2.1 / 58.5 / 130	8.3 / 116.4 / 260	4.1 / 81.8 / 184
	2.5	3.4 / 74.5 / 167	1.7 / 52.7 / 118	6.9 / 106.1 / 237	3.4 / 74.5 / 167
	2.572	3.3 / 73.4 / 165	1.7 / 52.7 / 117	6.7 / 104.5 / 233	3.3 / 73.4 / 165
	3	2.9 / 68.8 / 152.7	1.4 / 47.8 / 108	5.7 / 96.4 / 216	2.9 / 68.8 / 153
	3.072	2.8 / 67.6 / 151	1.4 / 47.8 / 107	5.6 / 95.6 / 214	2.8 / 67.6 / 151

The above assumes the failure of brace button nut restrained within DeepFlow™.

4.0 Installation guide

(Also available as a video on the DESSA YouTube channel, which can be accessed by scanning the QR code adjacent)



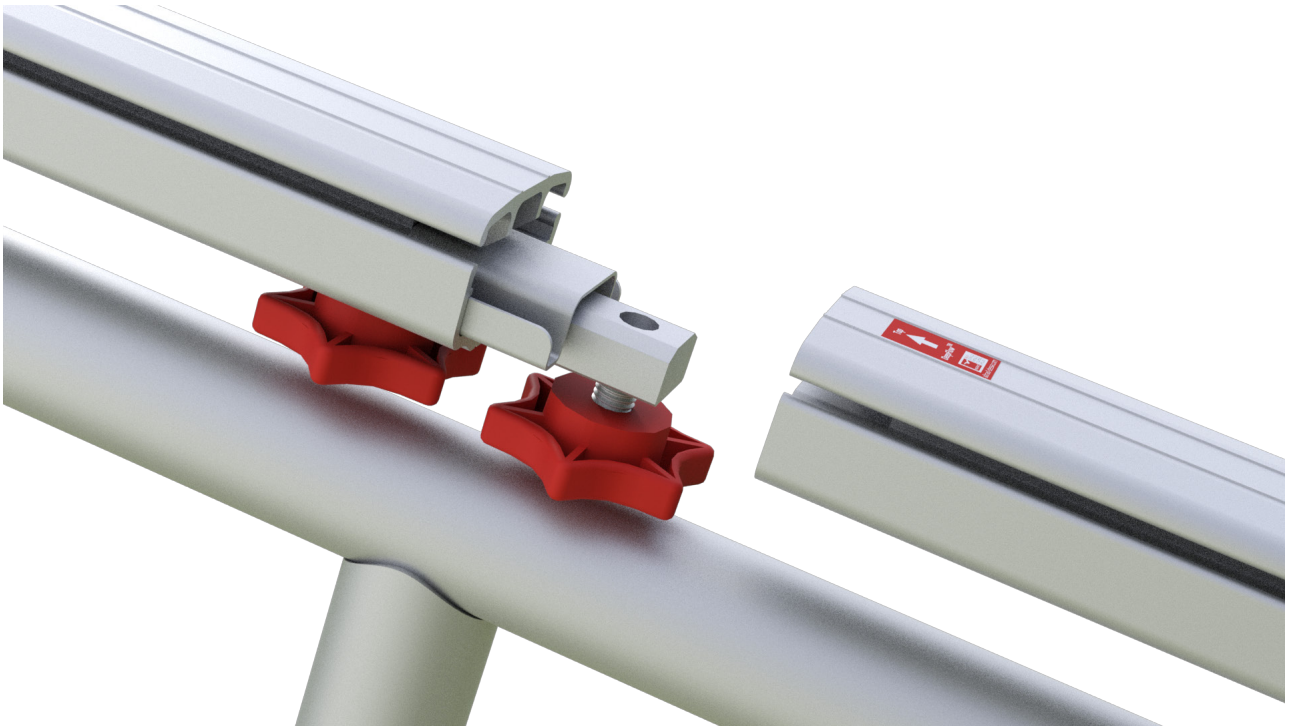
Place the ridge track into position and fix in place with two AF0002 quick release pins (shown above)



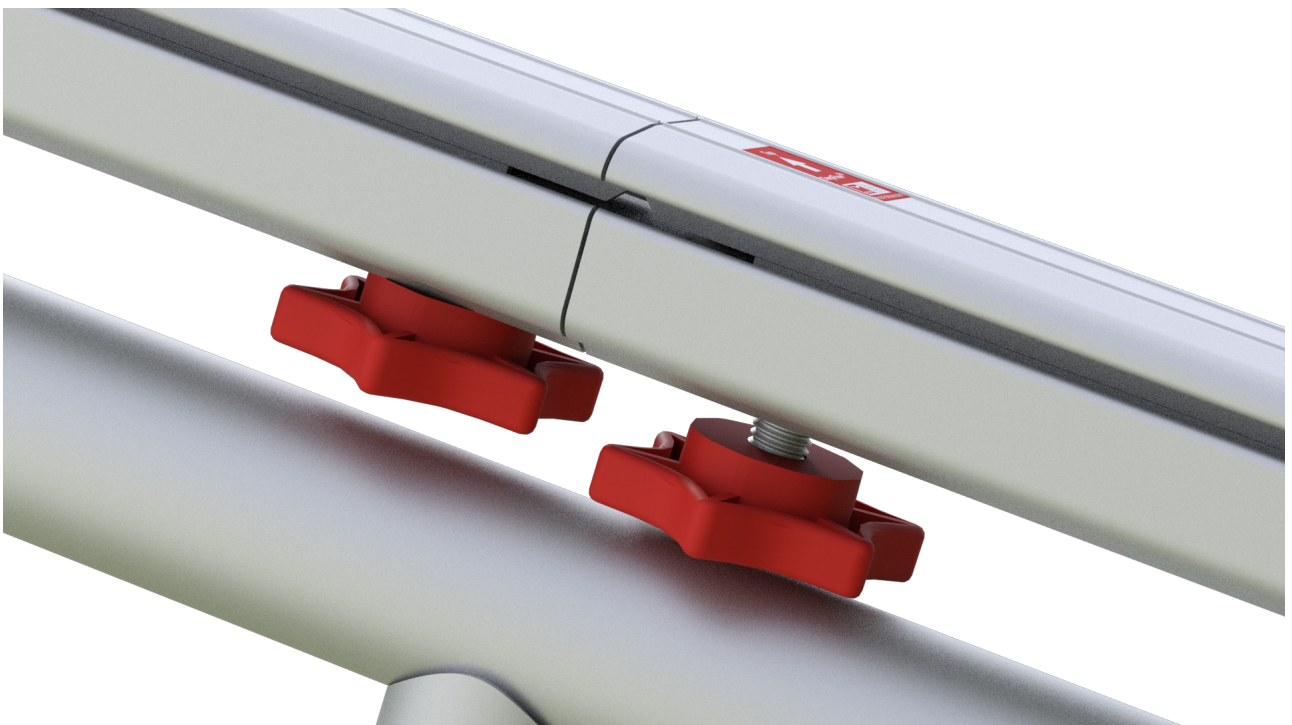
Slide the relevant DeepFlow™ track length up the slope of the beam line with the spigot pointing downslope and with the label pointing upslope, making sure the tracking engages with the button nuts attached to the brace claws.



Install the UA0035 alloy track spigot half way into the existing DeepFlow™ tracking. Secure in place by tightening the handwheel against the bottom of the tracking.



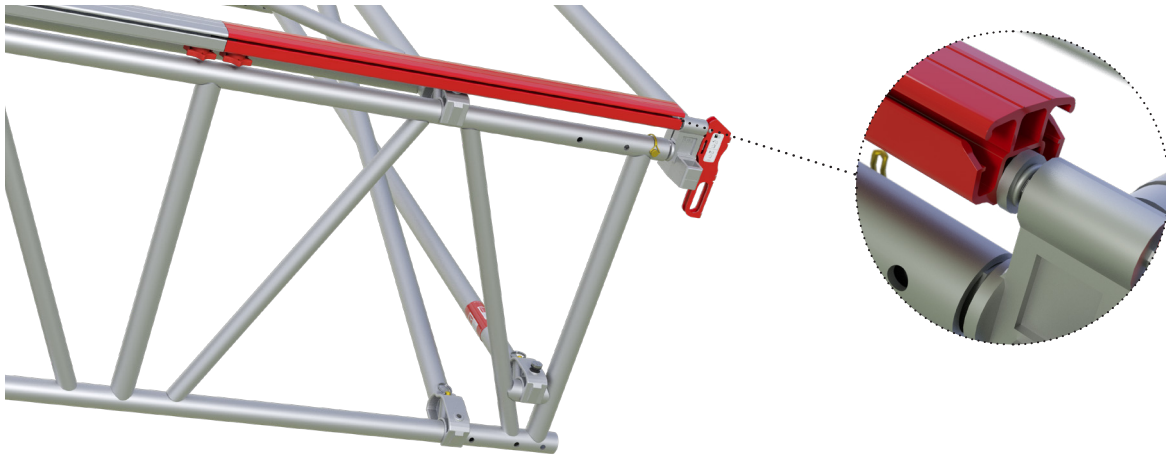
Slide up and engage the next section of tracking on the secured DeepFlow™ length.



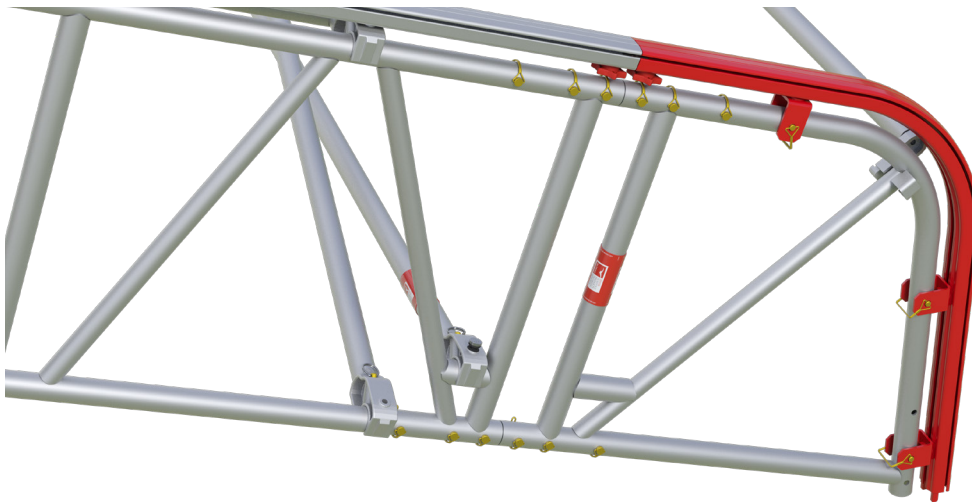
Tighten-off the second handwheel against the next section of tracking.



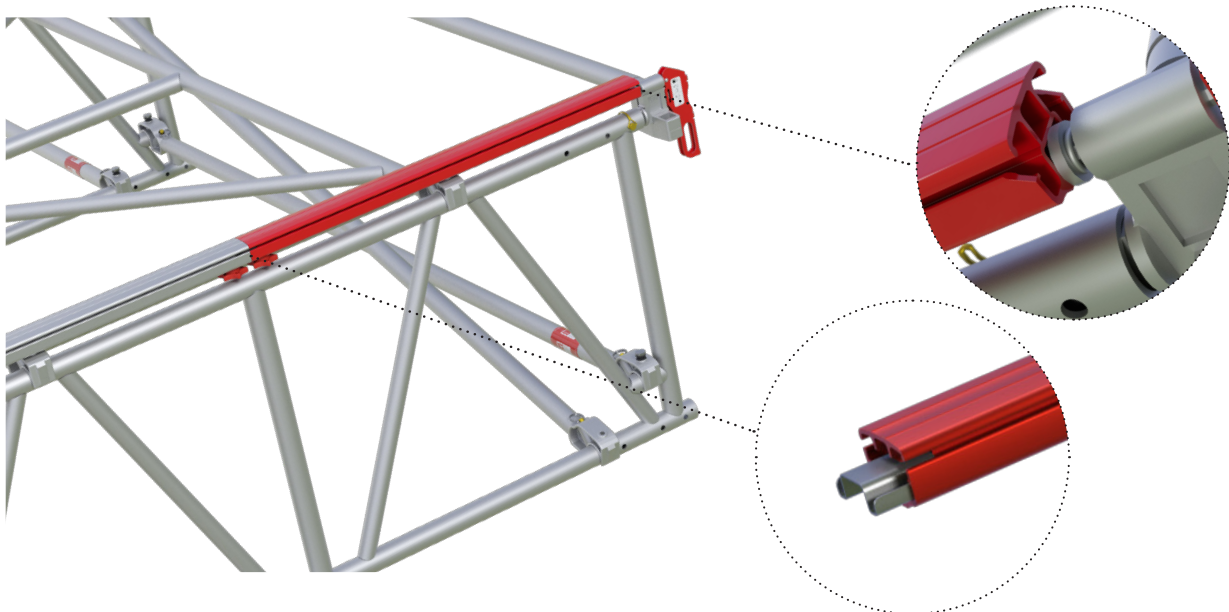
If using a track compressor, attach the spigotless U50001 end piece to finish off the tracking and terminate the tracking with a DESSA track compressor.



Or, alternatively, use an eaves track on an eaves beam (use three AF0002 quick release pins to secure it in place):



The U50002 end piece is used to finish tracking on the upper side of a monopitch roof:

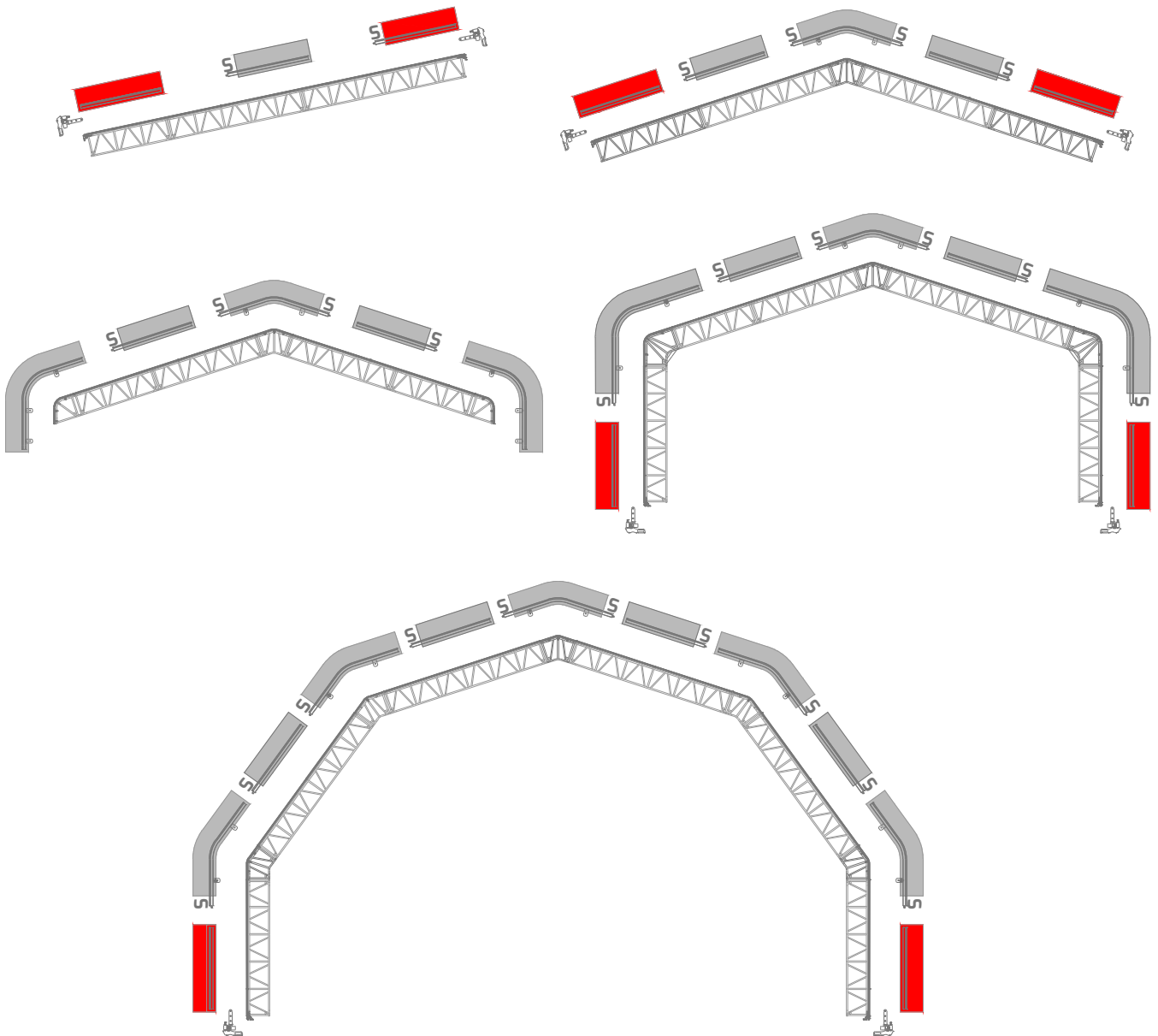


5.0 Spigot Orientation

To achieve optimal water drainage on roofs, dome structures and shelters, it is important to ensure that all the integrated spigots are facing downslope from the apex of the structure. In some instances, it may be required that some integrated spigots are removed from their parent components to join track lengths together.

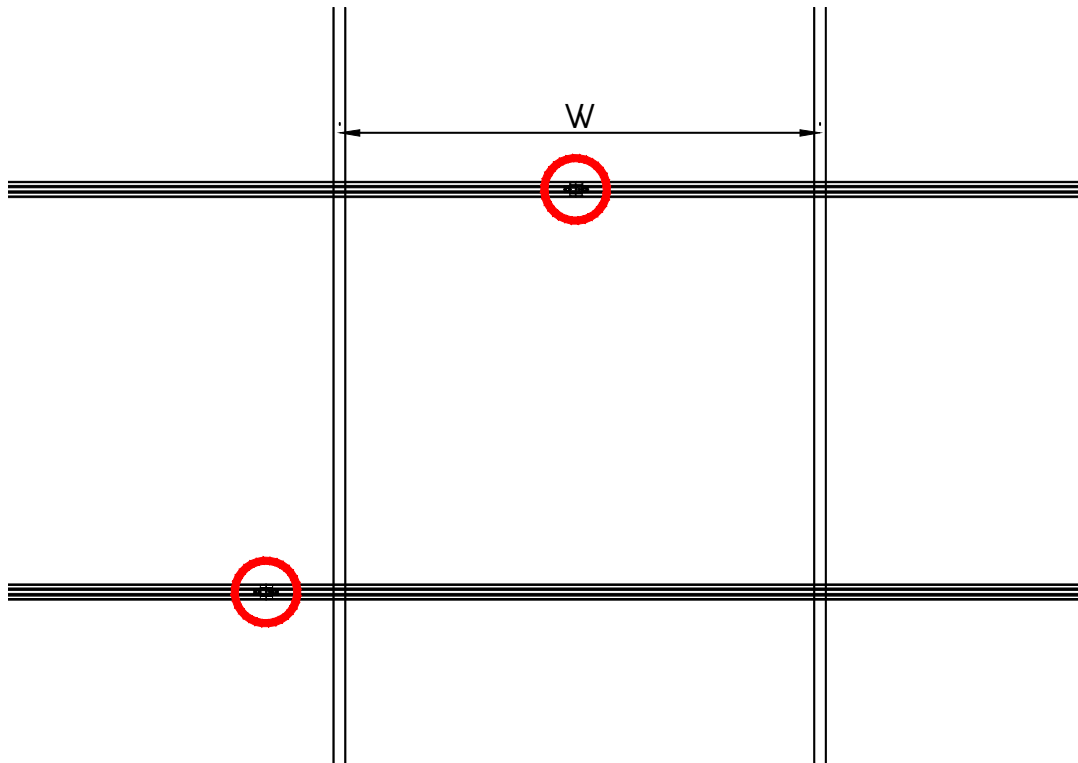
The desired orientation of the integrated spigots on different span types is shown below, where a capital “S” signifies the spigot, and RED is used to denote the DeepFlow™ track end pieces).

Full details of the integrated spigot removal and replacement process can be found inside the DeepFlow™ repair instruction manual, RIN18001.

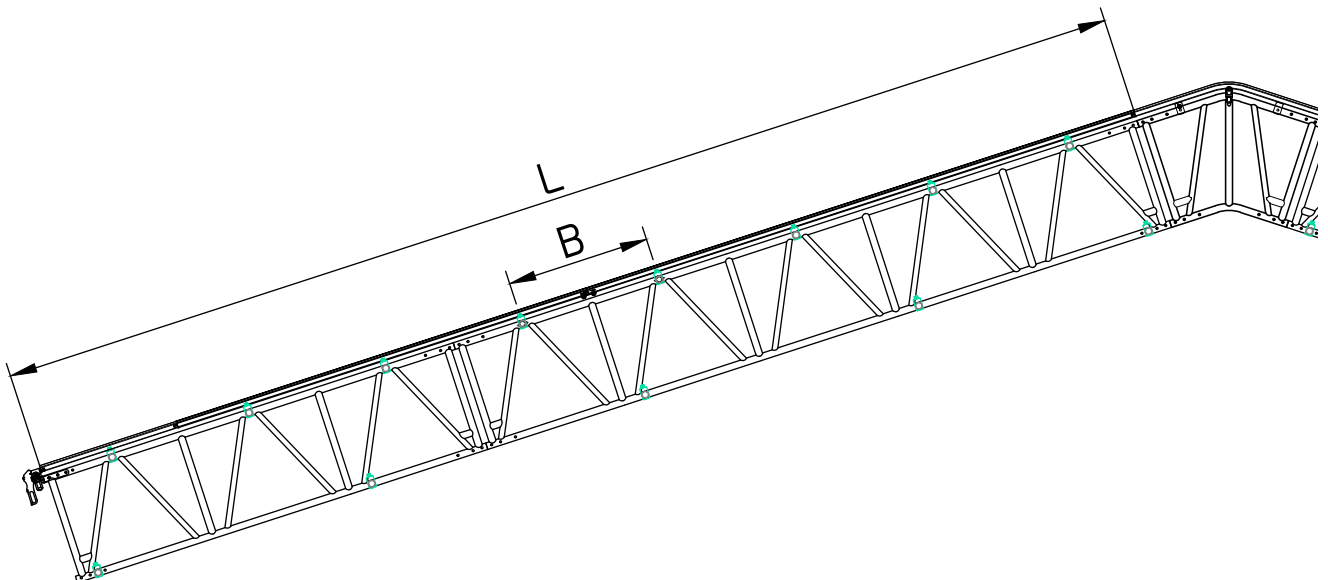


You will need to use the optional DeepFlow™ Spigot (UA0035) when:

- Using the track horizontally for sidewall sheeting when the distance “W” is greater than 2.0m:



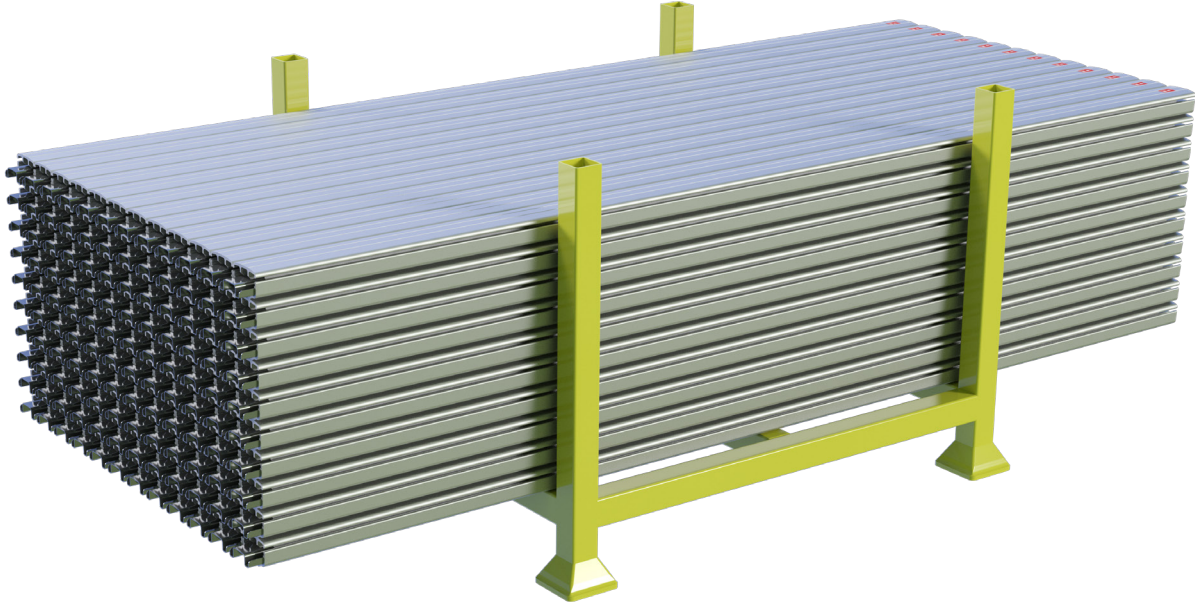
- When overall distance “L” exceeds 20m, or distance “b” greater than 2m:



6.0 Storage and transport info

The DESSA DeepFlow™ profile has been designed with stackability in mind. On the underside of each tracking profile you will find small indentations that will help you stack and store the product safely and efficiently.

A single standard stillage accomodates 120 DeepFlow™ profiles.



PART CODE	UNIT WEIGHT (kg)	WEIGHT OF 120* (kg)	NUMBER IN 1000kg
US1000	2.65	318.00	377
US2000	5.23	627.60	191
US3000	7.82	938.40	127
US4000	10.44	1252.80	95
US5000	13.00	1560.00	76
US6000	15.60	1872.00	64

*120 relates to a full stillage as illustrated above.

