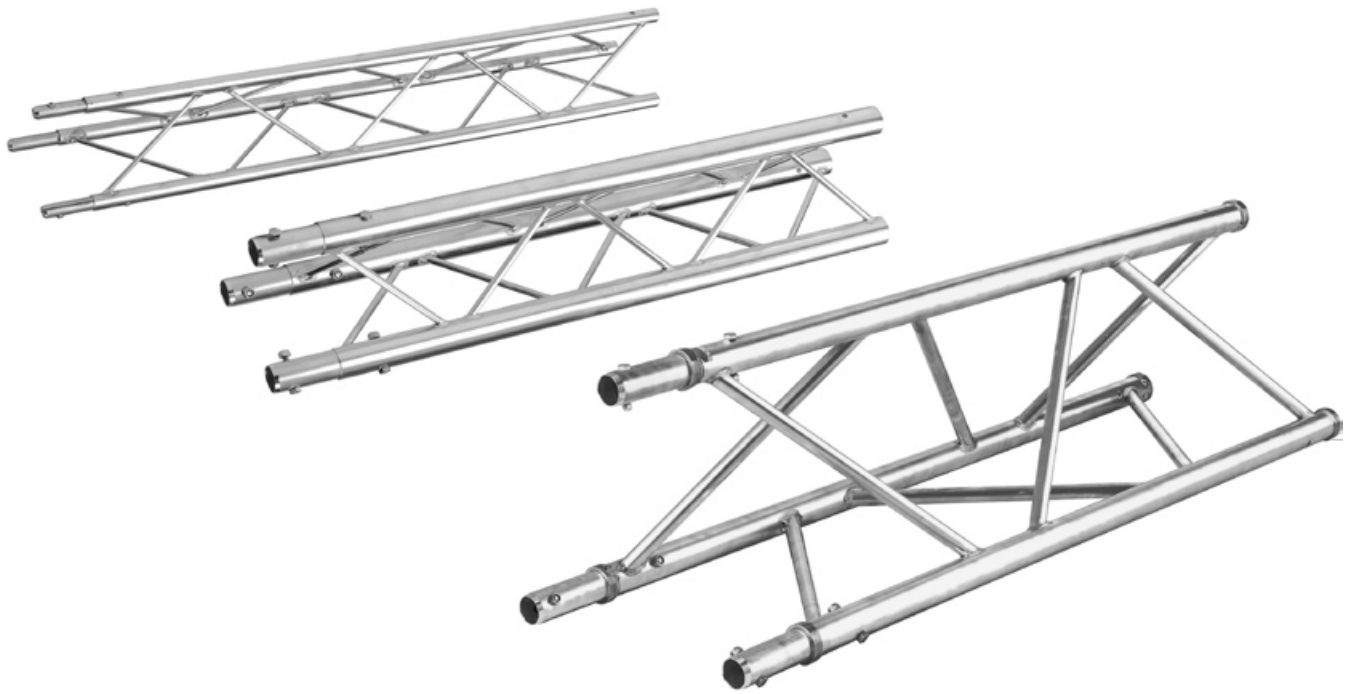


# [OPTI] Trilite™



# Structural Systems



**TRUSS SIZES & SPECIFICATIONS**

OPTI Trilite 100

1 - 2

OPTI Trilite 200

3 - 4

OPTI Trilite 200 +

5 - 6

**CUSTOM FABRICATIONS**

Single Tube and Other Aluminum Structures

7 - 8

**JUNCTIONS**

Triangular

9 - 10

Ladder

11

Box

12

**ACCESSORIES**

OPTI Trilite 100 Accessories

13 - 14

OPTI Trilite 200 Accessories

15 - 16

# [OPTI] Trilite™ 100

## SYSTEM SPECIFICATIONS

Main Tube: 1" Ø (25.4mmØ) x 14 s.w.g. wall (2mm T)  
 Lacing Spars: 5/16" Ø (8mmØ) x 16 s.w.g. wall (1.6mm T)  
 Material: 6005 - T6 Aluminum

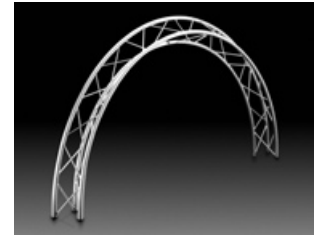
## CONNECTION

The OPTI Trilite 100 split spigot connecting system is easy to assemble with a 4mm A/F allen key (supplied with complete rigs), is totally unobtrusive and adds aesthetic appeal to integral strength.



## CURVED

OPTI Trilite 100 can be produced to any radius over 2'6" in sections of approximately 6'6" length (outside circumference).



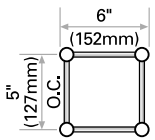
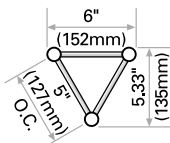
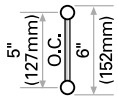
Please refer to pages 13 and 14 for other accessories.

Format	LADDER	TRIANGULAR	BOX
Ref. Code	106 - LCURVE	106 - TCURVE	106 - BCURVE
Ref. Code	109 - LCURVE	109 - TCURVE	109 - BCURVE

## STRAIGHT LENGTH DATA

The weight and loading data below is for straight lengths of truss. Junction data can be found on pages 9 to 12.

### OPTI Trilite 106



### LADDER (\*Vertical Mode)

Length (ft)	2' 0"	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"
Ref. Code	106-L2	106-L4	106-L6	106-L8	106-L10	106-L12	106-L14	106-L16	106-L18	106-L20
Weight lb.	1.19	2.35	3.53	4.70	5.88	7.05	8.23	9.40	10.58	11.75
Max UDL lb.	N/A	N/A	320	308	291	275	252	222	198	181
Max Pnt lb.	N/A	N/A	255	220	194	170	133	128	110	99

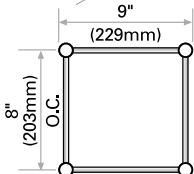
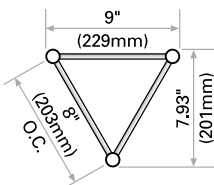
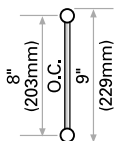
### TRIANGULAR

Length (ft)	2' 0"	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"
Ref. Code	106-T2	106-T4	106-T6	106-T8	106-T10	106-T12	106-T14	106-T16	106-T18	106-T20
Weight lb.	1.90	3.76	5.64	7.52	9.40	11.28	13.16	15.04	16.92	18.80
Max UDL lb.	N/A	704	682	660	638	616	569	493	440	400
Max Pnt lb.	N/A	462	370	308	273	242	222	204	187	171

### BOX

Length (ft)	2' 0"	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"
Ref. Code	106-B2	106-B4	106-B6	106-B8	106-B10	106-B12	106-B14	106-B16	106-B18	106-B20
Weight lb.	2.48	4.96	7.44	9.92	12.40	14.88	17.36	19.84	22.32	24.80
Max UDL lb.	N/A	1,540	1,513	1,474	1,422	1,364	1,258	1,073	968	908
Max Pnt lb.	N/A	600	517	462	429	396	365	335	308	293

### OPTI Trilite 109



### LADDER (\*Vertical Mode)

Length (ft)	2' 0"	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"
Ref. Code	109-L2	109-L4	109-L6	109-L8	109-L10	109-L12	109-L14	109-L16	109-L18	109-L20
Weight lb.	1.43	2.85	4.28	5.70	7.13	8.55	9.98	11.40	12.83	14.00
Max UDL lb.	N/A	413	395	389	385	378	371	352	330	305
Max Pnt lb.	N/A	352	350	332	275	235	204	180	165	150

### TRIANGULAR

Length (ft)	2' 0"	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"
Ref. Code	109-T2	109-T4	109-T6	109-T8	109-T10	109-T12	109-T14	109-T16	109-T18	109-T20
Weight lb.	2.28	4.56	6.84	9.12	11.40	13.68	15.96	15.04	20.52	22.40
Max UDL lb.	N/A	704	679	660	649	638	630	623	616	601
Max Pnt lb.	N/A	528	453	396	356	319	298	281	264	249

### BOX

Length (ft)	2' 0"	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"
Ref. Code	109-B2	109-B4	109-B6	109-B8	109-B10	109-B12	109-B14	109-B16	109-B18	109-B20
Weight lb.	2.96	5.92	8.88	11.84	14.80	17.76	20.72	23.68	26.64	29.60
Max UDL lb.	N/A	1,892	1,841	1,804	1,783	1,760	1,700	1,623	1,540	1,453
Max Pnt lb.	N/A	638	631	616	595	572	526	451	407	386

**Important:** The loading figures for Box are based on a load being applied evenly to both lower tubes. Individual loading of a single tube can reduce overall load bearing characteristics.

Non-standard lengths can be produced. These are priced to the next full 2' 0" in length. Any special length less than 1 foot is priced as 2 foot. All lengths include spigots. UDL = Uniformly Distributed Load. Pnt = Point Load.

# applications

## Exhibitions & Trade Shows



Effective for exhibitions, large and small, OPTI Trilite 100 adds style to your products in displays that can also feature projection screens and window displays.

## Advertising Banners

An ideal, lightweight, durable frame for exterior banner promotions or projection screens.



Photo courtesy of Capital City.

## Retail



Photos courtesy of Tiego.



Photo courtesy of Pulse.



Slat walling, garment support and product display are all part of a days work for the stylish OPTI Trilite 100 system.

## Public Places

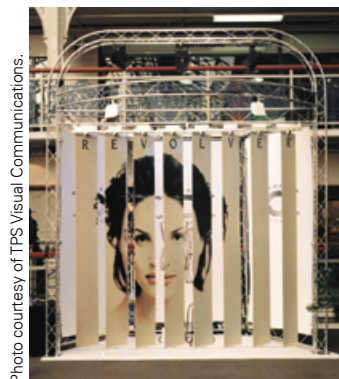


Photo courtesy of TPS Visual Communications.



Photos courtesy of AHA GmbH.



Sleek 'n' slim OPTI Trilite 100, with or without custom components, fits in anywhere.



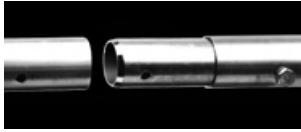
# [OPTI] Trilite™ 200

## SYSTEM SPECIFICATIONS

Main Tube: 2"Ø (50.8mmØ) x 16 s.w.g. wall (1.6mm T)  
 Lacing Spars: 1/2"Ø (12.7mmØ) x 16 s.w.g. wall (1.6mm T)  
 Material: 6005 - T6 Aluminum

## CONNECTION

The OPTI Trilite 200 connection is a simple M10 Nylock nut and high tensile bolt spigot system secured with 17mm wrenches. It is a strong, easy to use, reliable method of assembly.



200-SP1 (210)  
200-SP2 (212)

Please refer to pages 15 and 16 for other accessories.

## CURVED

OPTI Trilite 200 can be produced to any radius over 4'0" in sections of approximately 6'6" length (outside circumference).



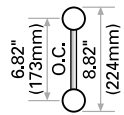
Format	LADDER	TRIANGULAR	BOX
Ref. Code	210 - LCURVE	210 - TCURVE	210 - BCURVE
Ref. Code	212 - LCURVE	212 - TCURVE	212 - BCURVE

## STRAIGHT LENGTH DATA

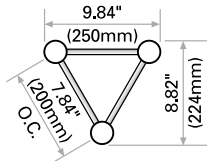
The weight and loading data below is for straight lengths of truss. Junction data can be found on pages 9 to 12.

### OPTI Trilite 210

#### LADDER (\*Vertical Mode \*\* 1L & 2L)

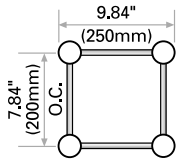


Length (m)	0.4m	0.6m	0.8m	1m	2m	3m	4m	5m	6m	7m	8m
Ref. Code	210-L400	210-L600	210-L800	210-L1000	210-L2000	210-L3000	210-L4000	210-L5000	210-L6000	210-L7000	210-L8000
Weight lb.	2.90	3.50	4.20	4.80	8.10	11.40	14.70	17.60	20.90	24.90	27.50
Max UDL lb.	N/A	N/A	N/A	835	815	782	683	560	476	418	367
Max Pnt lb.	N/A	N/A	N/A	733	614	459	351	298	249	205	184



#### TRIANGULAR

Length (m)	0.4m	0.6m	0.8m	1m	2m	3m	4m	5m	6m	7m	8m
Ref. Code	210-T400	210-T600	210-T800	210-T1000	210-T2000	210-T3000	210-T4000	210-T5000	210-T6000	210-T7000	210-T8000
Weight lb.	4.20	5.70	6.80	7.90	13.60	20.20	26.00	32.60	38.50	44.00	48.40
Max UDL lb.	N/A	N/A	N/A	2,741	2,633	2,016	1,514	1,245	1,050	887	792
Max Pnt lb.	N/A	N/A	N/A	1,209	892	617	587	487	440	382	341

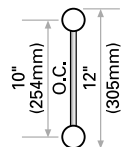


#### BOX

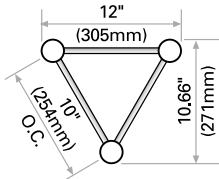
Length (m)	0.4m	0.6m	0.8m	1m	2m	3m	4m	5m	6m	7m	8m
Ref. Code	210-B400	210-B600	210-B800	210-B1000	210-B2000	210-B3000	210-B4000	210-B5000	210-B6000	210-B7000	210-B8000
Weight lb.	5.97	7.52	9.06	10.60	18.32	26.04	33.75	41.47	49.19	56.90	64.62
Max UDL lb.	N/A	N/A	N/A	3,174	3,239	3,194	2,992	2,624	2,297	1,925	1,584
Max Pnt lb.	N/A	N/A	N/A	1,529	1,236	1,049	922	794	727	671	612

### OPTI Trilite 212

#### LADDER (\*Vertical Mode)

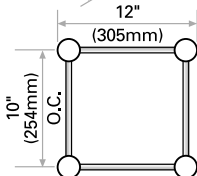


Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	212-L4	212-L6	212-L8	212-L10	212-L12	212-L14	212-L16	212-L18	212-L20	212-L30	212-L40
Weight lb.	6.94	10.41	13.88	17.34	20.81	24.28	27.75	31.22	34.69	52.03	69.38
Max UDL lb.	N/A	814	807	782	754	720	682	632	581	419	315
Max Pnt lb.	N/A	675	675	593	512	460	407	362	316	213	162



#### TRIANGULAR

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	212-T4	212-T6	212-T8	212-T10	212-T12	212-T14	212-T16	212-T18	212-T20	212-T30	212-T40
Weight lb.	11.10	16.65	22.20	27.75	33.30	38.85	44.40	49.95	55.50	83.25	111.00
Max UDL lb.	N/A	2,390	2,464	2,300	2,095	1,888	1,686	1,489	1,307	891	673
Max Pnt lb.	N/A	827	737	671	628	585	541	498	455	343	275



#### BOX

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	212-B4	212-B6	212-B8	212-B10	212-B12	212-B14	212-B16	212-B18	212-B20	212-B30	212-B40
Weight lb.	14.90	22.35	29.80	37.25	44.70	52.16	59.61	67.06	74.51	111.76	149.02
Max UDL lb.	N/A	2,845	2,886	2,913	2,927	2,941	2,902	2,811	2,719	1,918	1,470
Max Pnt lb.	N/A	1,020	964	960	902	843	792	748	704	572	482

**Important:** The loading figures for Box are based on a load being applied evenly to both lower tubes. Individual loading of a single tube can reduce overall load bearing characteristics.

Non-standard lengths can be produced. These are priced to the next full metre in length. Any special length less than 1 foot is priced as 1 foot. All lengths include spigots. UDL = Uniformly Distributed Load. Pnt = Point Load.

# applications

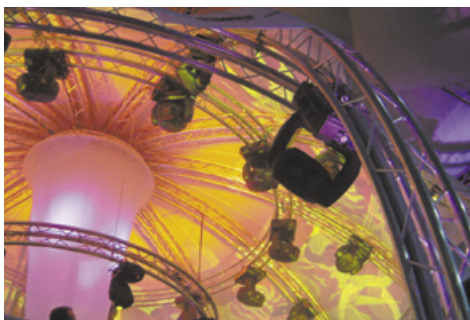
## Exhibitions



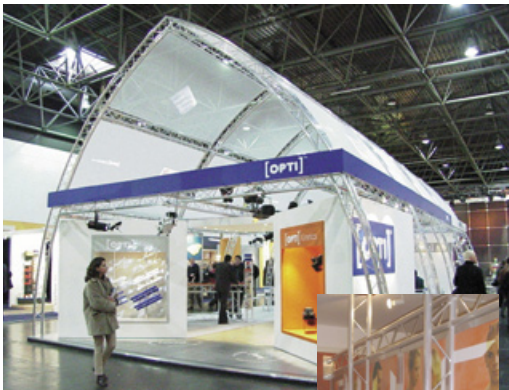
Curved sleek lines with custom components in any finish create the right image or environment.



This pyramid, above, with the special four way junction at its peak, allowed the stand designers to bring their striking concept to reality.



## Display & Retail



Graphic panels, product displays and lighting can be integrated with OPTI Trilite 200 to construct attractive "visual merchandising" features.



Banners and screens inside and out.

Photo courtesy of Capital City.

## Leisure



OPTI Trilite 200 is used in a wide variety of sports and leisure applications including golf and tennis virtual reality simulators.



Photo courtesy of Hutchison Technologies.



Photo courtesy of Circuit City, USA.

TV Monitors and Plasma Screens for P.O.S., use or display.



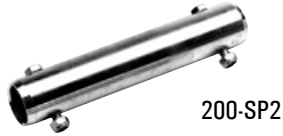
# [OPTI] Trilite™ 200+

## SYSTEM SPECIFICATIONS

Main Tube: 2"Ø (50.8mmØ) x 16 s.w.g. wall (1.6mm T)  
 Lacing Spars: 1"Ø (25.4mmØ) x 14 s.w.g. wall (2mm T)  
 Material: 6005 - T6 Aluminum

## CONNECTION

The OPTI Trilite 200+ connection is a simple M10 Nylock nut and high tensile bolt spigot system secured with 17mm spanners. It is a strong, easy to use, reliable method of assembly.



Please refer to pages 15 and 16 for other accessories.

## CURVED

OPTI Trilite 200+ can be produced to any radius over 4'0" in sections of approximately 6'6" length (outside circumference).

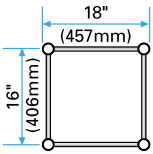
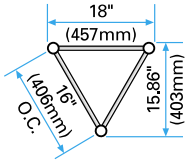
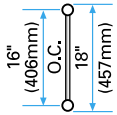


Format	LADDER	TRIANGULAR	BOX
Ref. Code	218 - LCURVE	218 - TCURVE	218 - BCURVE
Ref. Code	224 - LCURVE	224 - TCURVE	224 - BCURVE

## STRAIGHT LENGTH DATA

The weight and loading data below is for straight lengths of truss. Junction data can be found on pages 9 to 12.

### OPTI Trilite 218



### LADDER (\*Vertical Mode)

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	218-L4	218-L6	218-L8	218-L10	218-L12	218-L14	218-L16	218-L18	218-L20	218-L30	218-L40
Weight lb.	6.30	9.45	12.60	15.75	18.90	22.05	25.20	28.35	31.50	47.25	63.00
Max UDL lb.	N/A	N/A	N/A	N/A	1,057	1,030	1,002	975	935	742	591
Max Pnt lb.	N/A	N/A	N/A	N/A	1,258	1,107	955	804	734	468	349

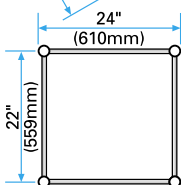
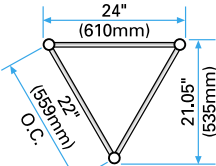
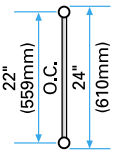
### TRIANGULAR

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	218-T4	218-T6	218-T8	218-T10	218-T12	218-T14	218-T16	218-T18	218-T20	218-T30	218-T40
Weight lb.	10.80	15.12	20.16	25.20	30.24	35.28	40.32	45.36	50.40	75.60	100.80
Max UDL lb.	N/A	1,907	2,324	2,550	2,600	2,459	2,319	2,178	2,040	1,506	1,137
Max Pnt lb.	N/A	800	753	709	671	638	606	574	549	458	378

### BOX

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	218-B4	218-B6	218-B8	218-B10	218-B12	218-B14	218-B16	218-B18	218-B20	218-B30	218-B40
Weight lb.	13.53	20.30	27.06	33.83	40.60	47.36	54.13	60.89	67.66	101.49	135.32
Max UDL lb.	N/A	2,436	3,257	3,806	4,085	4,001	3,916	3,832	3,685	3,019	2,401
Max Pnt lb.	N/A	937	902	866	829	806	782	759	738	654	581

### OPTI Trilite 224



### LADDER (\*Vertical Mode)

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	224-L4	224-L6	224-L8	224-L10	224-L12	224-L14	224-L16	224-L18	224-L20	224-L30	224-L40
Weight lb.	6.50	9.75	13.00	16.25	19.50	22.75	26.00	29.25	32.50	48.75	65.00
Max UDL lb.	N/A	N/A	448	598	748	841	934	951	968	811	682
Max Pnt lb.	N/A	N/A	N/A	N/A	1,240	1,240	1,240	1,221	1,078	697	473

### TRIANGULAR

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	224-T4	224-T6	224-T8	224-T10	224-T12	224-T14	224-T16	224-T18	224-T20	224-T30	224-T40
Weight lb.	10.40	15.60	20.80	26.00	31.20	36.40	41.60	46.80	52.00	78.00	104.00
Max UDL lb.	N/A	N/A	1,494	1,833	2,171	2,278	2,385	2,317	2,248	1,866	1,507
Max Pnt lb.	N/A	N/A	625	607	585	560	535	522	510	442	394

### BOX

Length (ft)	4' 0"	6' 0"	8' 0"	10' 0"	12' 0"	14' 0"	16' 0"	18' 0"	20' 0"	30' 0"	40' 0"
Ref. Code	224-B4	224-B6	224-B8	224-B10	224-B12	224-B14	224-B16	224-B18	224-B20	224-B30	224-B40
Weight lb.	13.84	20.76	27.68	34.60	41.52	48.44	55.36	62.28	69.20	103.80	138.40
Max UDL lb.	N/A	N/A	1,888	2,535	2,957	3,302	3,579	3,648	3,661	3,439	2,985
Max Pnt lb.	N/A	N/A	708	687	671	661	651	640	629	566	541

**Important:** The loading figures for Box are based on a load being applied evenly to both lower tubes. Individual loading of a single tube can reduce overall load bearing characteristics.

Non-standard lengths can be produced. These are priced to the next full metre in length. Any special length less than 1 foot is priced as 1 foot. All lengths include spigots. UDL = Uniformly Distributed Load. Pnt = Point Load.



# applications

## Exhibitions & Museums



Travelling Centenary exhibition for Harley Davidson motorcycles.



Welding and pre-build of roof section for a specialised ship display in the Bilbao Marine Museum, Spain.

## Staging



Photo courtesy of Impact Stages.

OPTI Trilite 200+ is strong modular and easy to use which makes it ideal for tours and stages like this one in Trafalgar Square, London, England.



## Rigging



Clubs and leisure facilities often need substantial load bearing, stylish rigging systems for lighting and sound.

## Interiors



Monitor and screen support display booths.

Photo courtesy of Experience Design & Management.



Displaying the spectacular. Dynamic hi-tech describes the feel generated by this perfectly designed stand for Planet Bike which used 'special' OPTI Trilite 200+ as a load bearing support ring mounted on reinforced OPTI Trilite 200 legs.



# custom applications & components

## Single Tube Trilite

Sails, ceilings and many other structures can be made using 2" or 1" single tube which can then be coated or polished to create the desired impression.



Photo courtesy of Couttis Arken.

## Outdoor Specials

The durability of OPTI Trilite enable it to be used almost anywhere. Like this installation for spectacular diving acrobatics.



Photo courtesy of Falcon.

## Furniture



Stylish aluminum furniture for 101 uses. Inside and out.



## Curves, domes & spheres



All custom design structures, and most standard, are pre-built at our factories, as part of the FREE DesignLine service, to ensure that everything works how, where and when it needs to.

Is it a prop from Joe 90? Or, a giant hamster ball? No it's one of the many special spheres and domes created by OPTI to suit our customers' specific requirements.



Custom apex multi-junction for the dome construction (above).



Many custom accessories are available for all OPTI Trilite formats, including spotlights (as shown above).

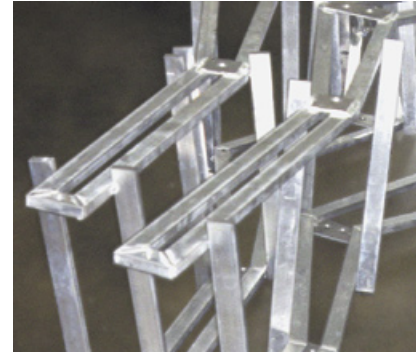
# aluminium fabrication

## Sculptures

For artists and architects aluminum is a wonderful material for construction inside and out. OPTI are the perfect people to transform ideas into reality with aluminum.



Manufactured sections delivered to site prior to construction.



Over 6000 solid rectangular section aluminum bars were welded together to create this sculpture.



Sections lowered in place and assembled on pre-built foundations.



Architects - d'ECOI, Paris.

Ether 1, a sculpture fabricated from 4 tonnes of aluminum at our factory and built in the grounds of the UN head quarters in Geneva within 3 weeks.

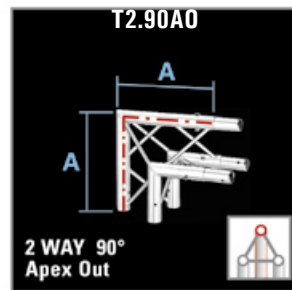
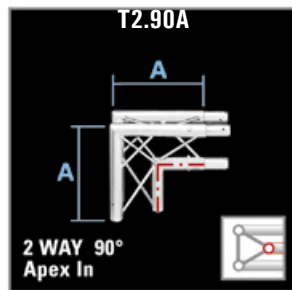
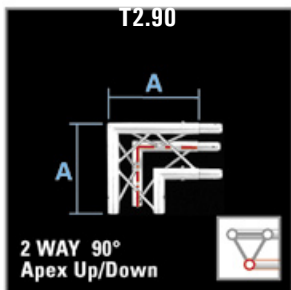
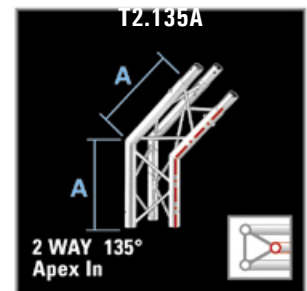
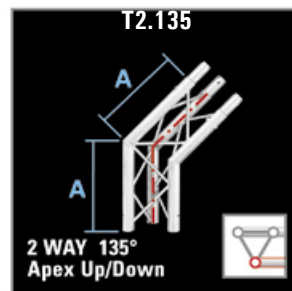
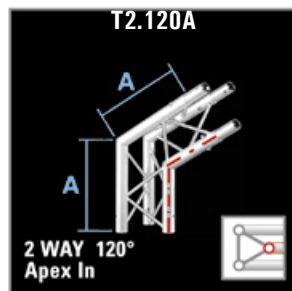
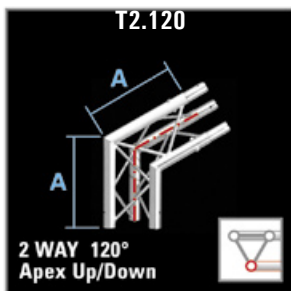
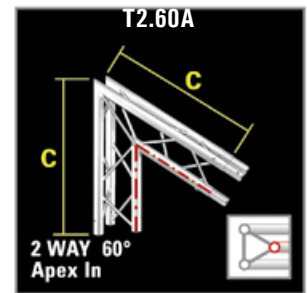
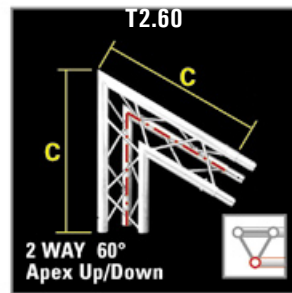
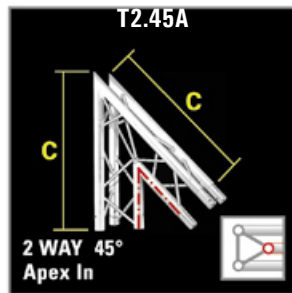
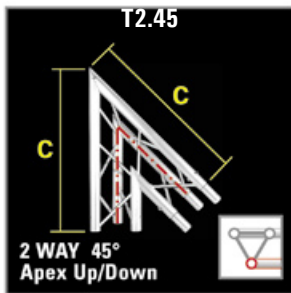
This demonstrates OPTI's commitment to our customers' needs and our ability to rapidly fabricate almost anything in aluminum, anywhere, anytime.



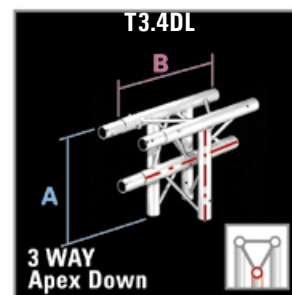
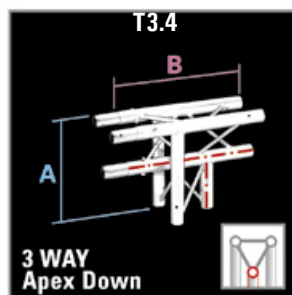
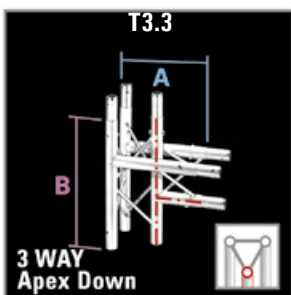
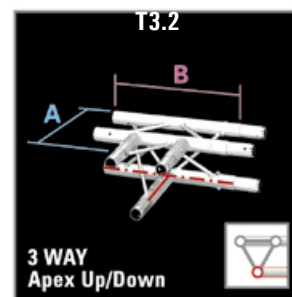
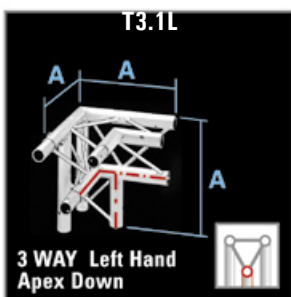
# triangular junctions

All junction configurations featured are available in all 100, 200 and 200+ formats. Refer to dimensional information for appropriate junction geometry. The apex tube of each junction is indicated by a red line and orientation diagram. For weight details see page 11. For additional information contact OPTI.

## 2 Way



## 3 Way



### OPTI Trilite 106

A = 12" B = 18"  
C = 24"

### OPTI Trilite 109

A = 18" B = 27"  
C = 30"

### OPTI Trilite 210

A = 400mm B = 550mm  
C = 800mm

### OPTI Trilite 212

A = 24" B = 36"  
C = 48"

### OPTI Trilite 218

A = 36" B = 54"mm  
C = 72"

### OPTI Trilite 224

A = 48" B = 72"  
C = 96"

### Product Codes

When ordering junctions, product codes must be prefixed by the series number e.g:

for OPTI Trilite 106 specify  
106-T2.45

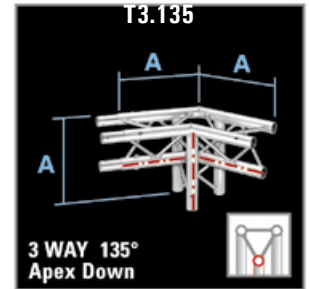
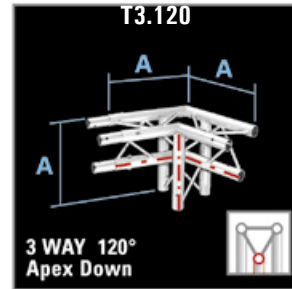
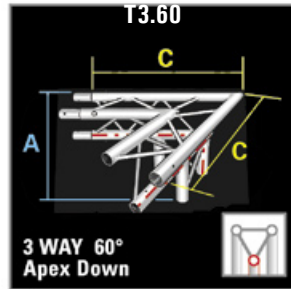
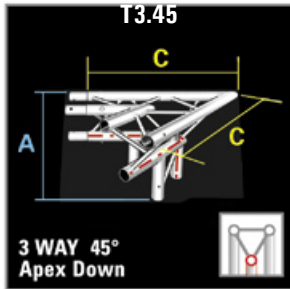
for OPTI Trilite 224 specify  
224-T2.45

# triangular junctions

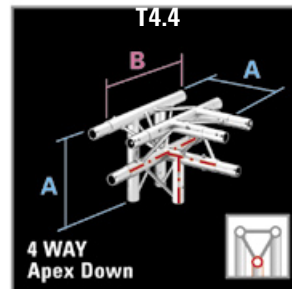
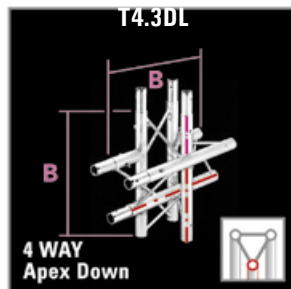
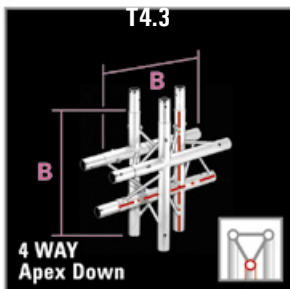
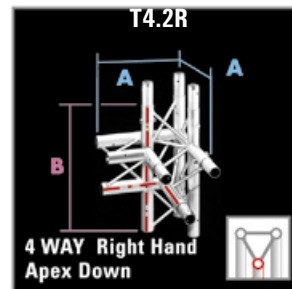
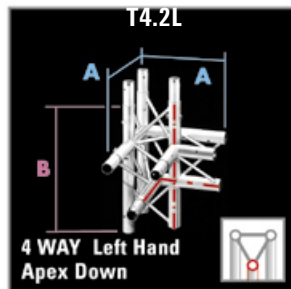
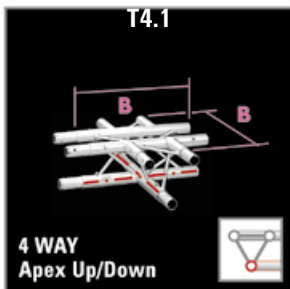
Use 60° to create equilateral triangles, 90° for Rectangles and Squares, 120° for Hexagons and, 135° for Octagons.

Special junctions can easily be produced to suit specific applications. Contact the DesignLine Service to discuss your custom requirements.

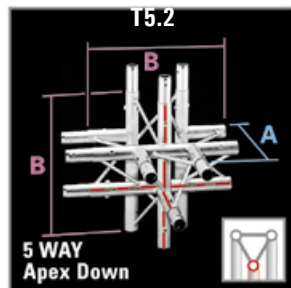
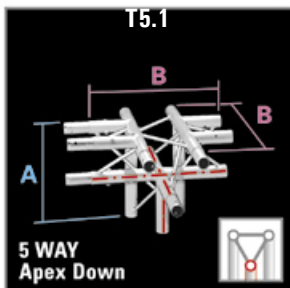
## 3 Way



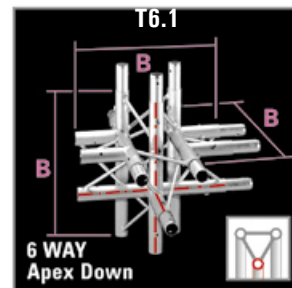
## 4 Way



## 5 Way



## 6 Way



### OPTI Trilite 106

A = 12" B = 18"

C = 24"

### OPTI Trilite 109

A = 18" B = 27"

C = 30"

### OPTI Trilite 210

A = 400mm B = 550mm

C = 800mm

### OPTI Trilite 212

A = 24" B = 36"

C = 48"

### OPTI Trilite 218

A = 36" B = 54"mm

C = 72"

### OPTI Trilite 224

A = 48" B = 72"

C = 96"

### Product Codes

When ordering junctions, product codes must be prefixed by the series number e.g:

for OPTI Trilite 106 specify  
106-T3.60

for OPTI Trilite 224 specify  
224-T3.60

## Triangular Junction Weights in lb.

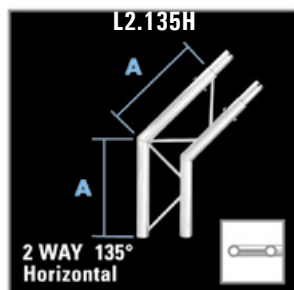
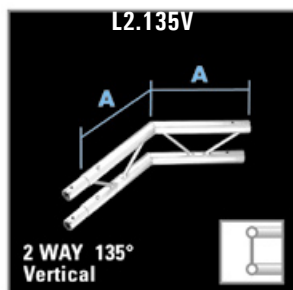
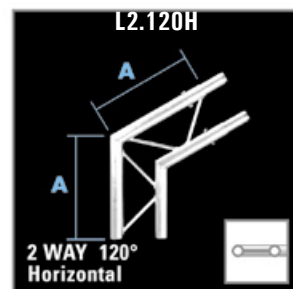
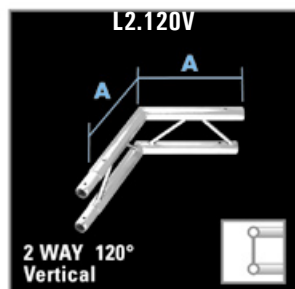
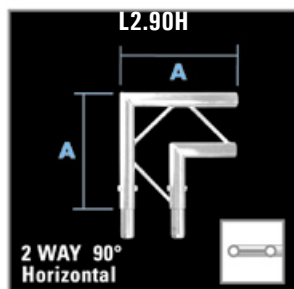
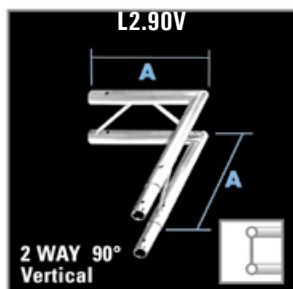
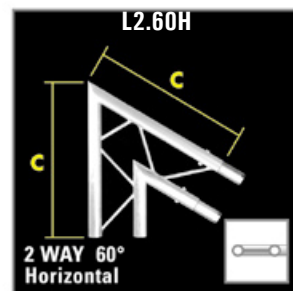
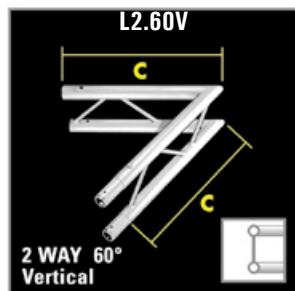
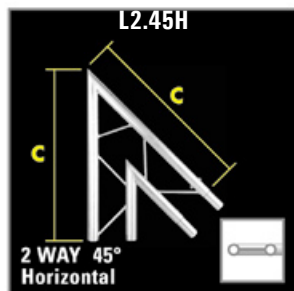
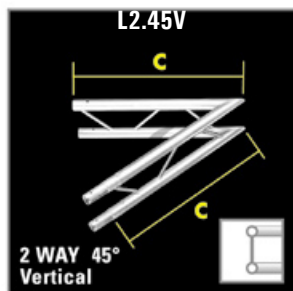
OPTI Trilite Series	2 Way 45°- 60°	2 Way 90°-135°	3 Way	4 Way	5 Way	6 Way
OPTI Trilite 106	3.18	1.85	3.60	2.44	3.08	3.55
OPTI Trilite 109	4.08	3.12	4.50	4.79	5.33	6.19
OPTI Trilite 210	9.04	5.51	7.06	8.82	9.70	14.77
OPTI Trilite 212	11.55	6.68	13.07	8.41	9.01	10.81
OPTI Trilite 218	22.35	13.79	26.20	17.01	18.22	21.87
OPTI Trilite 224	33.53	20.69	39.31	25.51	27.33	32.80

Junction weights shown are the highest in each category.

# ladder junctions

All ladder junction configurations featured are available in all 100, 200 and 200+ formats. Refer to dimensional information for appropriate junction geometry. Special junctions can easily be produced to suit specific applications. Contact the DesignLine Service to discuss your custom requirements.

## 2 Way



### OPTI Trilite 106

A = 12" B = 18"

C = 24"

### OPTI Trilite 109

A = 18" B = 27"

C = 30"

### OPTI Trilite 210

A = 400mm B = 550mm

C = 800mm

### OPTI Trilite 212

A = 24" B = 36"

C = 48"

### OPTI Trilite 218

A = 36" B = 54" mm

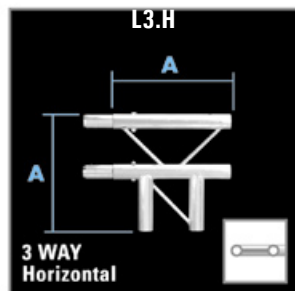
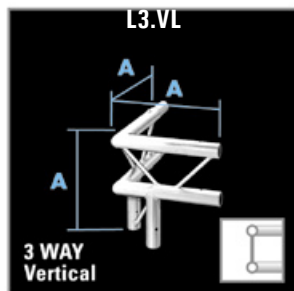
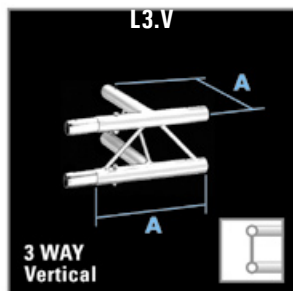
C = 72"

### OPTI Trilite 224

A = 48" B = 72"

C = 96"

## 3 Way



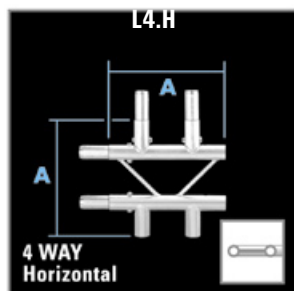
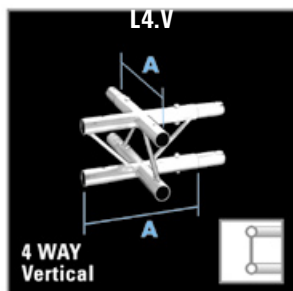
## Product Codes

When ordering junctions, product codes must be prefixed by the series number e.g:

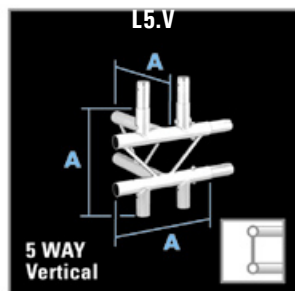
for OPTI Trilite 106 specify 106-L2.45V

for OPTI Trilite 224 specify 224-L2.45V

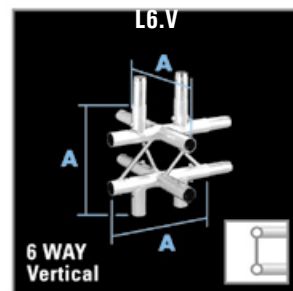
## 4 Way



## 5 Way



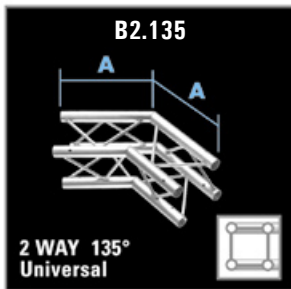
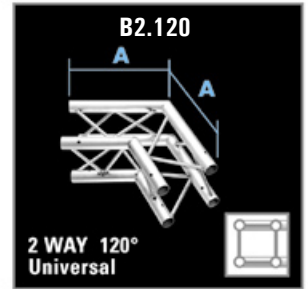
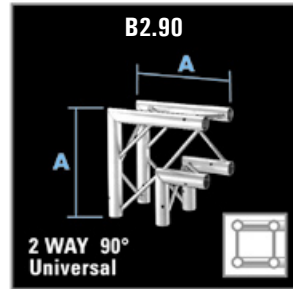
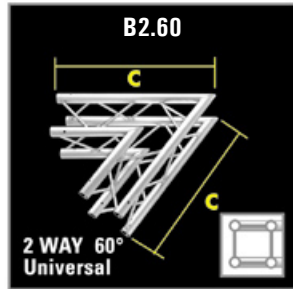
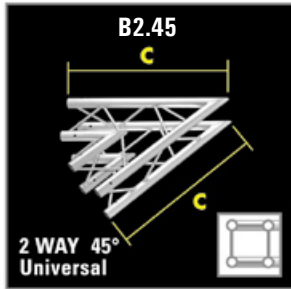
## 6 Way



# box junctions

All box junction configurations featured are available in all 100, 200 and 200+ formats. Refer to dimensional information for appropriate junction geometry. Special junctions can easily be produced to suit specific applications. Contact the DesignLine Service to discuss your custom requirements.

## 2 Way

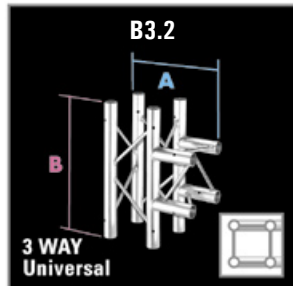
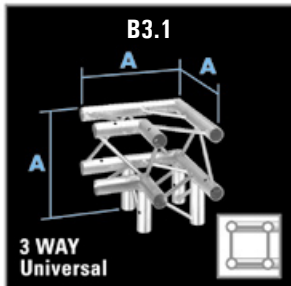


## Box Junction Weights in lb.

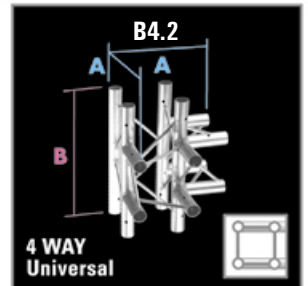
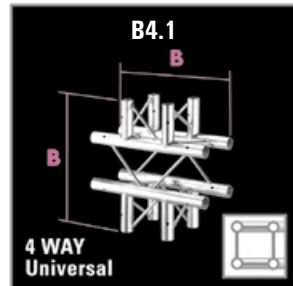
OPTI Trilite Series	2 Way 45°-60°	2 Way 90°-135°	3 Way	4 Way	5 Way	6 Way
OPTI Trilite 106	3.88	2.34	4.44	3.40	4.08	4.78
OPTI Trilite 109	5.05	3.75	6.45	5.27	6.26	7.24
OPTI Trilite 210	12.04	7.34	9.39	11.75	12.92	19.69
OPTI Trilite 212	14.12	8.69	16.53	9.61	12.01	14.41
OPTI Trilite 218	26.84	18.05	31.70	19.44	24.30	29.16
OPTI Trilite 224	40.26	27.08	47.54	29.26	36.45	43.73

Junction weights shown are the highest in each category.

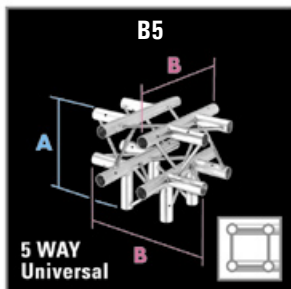
## 3 Way



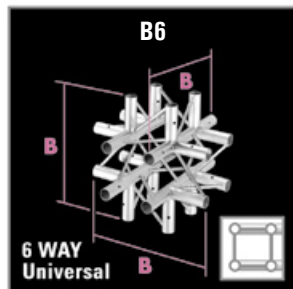
## 4 Way



## 5 Way



## 6 Way



### OPTI Trilite 106

A = 12" B = 18"

C = 24"

### OPTI Trilite 109

A = 18" B = 27"

C = 30"

### OPTI Trilite 210

A = 400mm B = 550mm

C = 800mm

### OPTI Trilite 212

A = 24" B = 36"

C = 48"

### OPTI Trilite 218

A = 36" B = 54" mm

C = 72"

### OPTI Trilite 224

A = 48" B = 72"

C = 96"

## Ladder Junction Weights in lb.

OPTI Trilite Series	2 Way 45°-60°	2 Way 90°-135°	3 Way	4 Way	5 Way	6 Way
OPTI Trilite 106	2.26	1.22	1.54	1.31	1.59	1.90
OPTI Trilite 109	3.12	1.93	1.98	1.93	2.39	2.89
OPTI Trilite 210	6.02	3.66	4.20	5.86	6.46	9.83
OPTI Trilite 212	8.14	4.25	5.39	4.31	5.29	6.26
OPTI Trilite 218	14.11	7.63	9.66	7.73	9.18	10.64
OPTI Trilite 224	21.16	11.45	14.49	11.59	13.78	15.96

Junction weights shown are the highest in each category.

## Product Codes

When ordering junctions, product codes must be prefixed by the series number e.g:

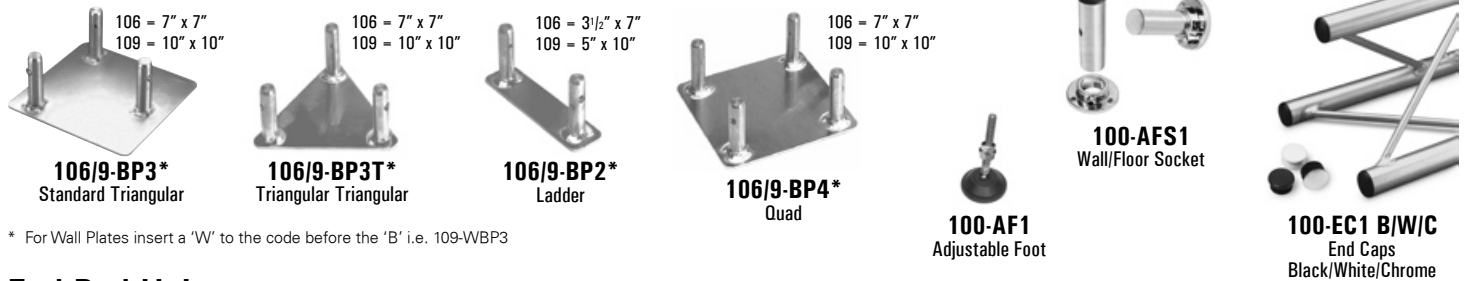
for OPTI Trilite 106 specify 106-B2.45

for OPTI Trilite 224 specify 224-B2.45

The accessories featured are examples of the wide variety of standard and shopfitting components available that can be used with the 1" main tube Trilite systems. Contact the DesignLine Service for further information.

### Plates, Feet & Ends

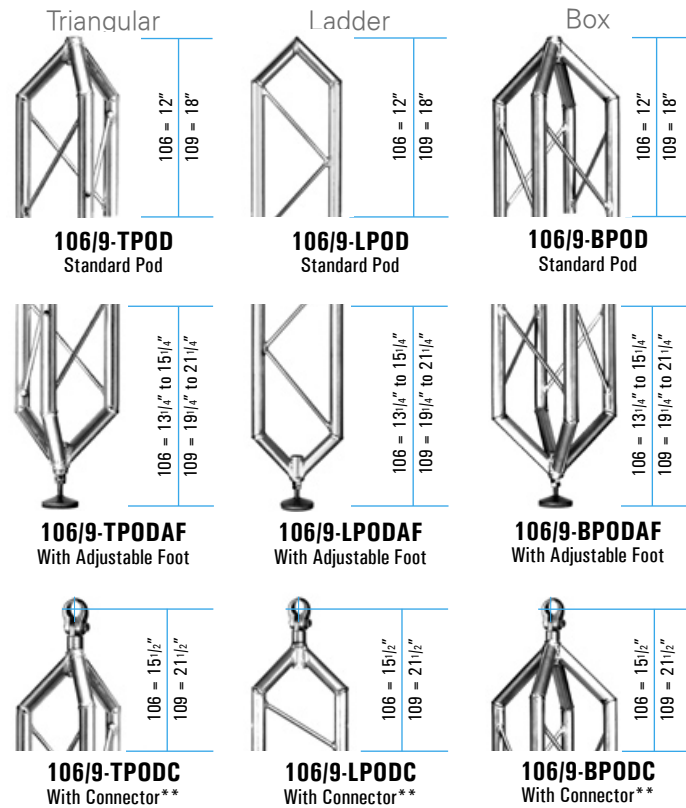
Base plates (add 1/2" to height of structure), end caps, collars and feet (add an adjustable amount to height - up to 2") provide strong, stable and clean beginnings and ends to OPTI Trilite structures.



\* For Wall Plates insert a 'W' to the code before the 'B' i.e. 109-WBP3

### End Pod Units

End Pods neatly finish off lengths of truss. A clean end/top section, a base section with foot or the end of one length of truss linking to another length with a connector.



### Lecterns

Lecterns can be made using triangular or quad section OPTI Trilite 100.

Lecterns can be custom made to any height.

The height of the standard triangular truss lectern is approximately 3'7".

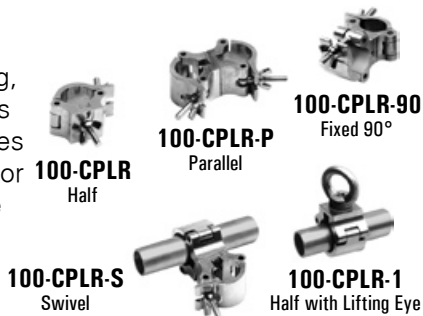


**109-TR LCT**  
(109 Triangular truss Lectern)

37"

### Couplers

Couplers create strong, simple temporary joins between different types of truss and panelling or can be used to secure other objects to truss structures (or truss to buildings).



### Securing Clips & Saddle Clamps

Other methods of connecting objects to truss or securing truss to buildings are clic clips and saddle clamps.





# accessories

## Connectors

The Standard Swivel Connector (below) is used on Outriggers, Corner Braces, Hook on Modules and Pod Units.



Many other non-standard Connectors are available for all sorts of custom applications.



## Outrigger

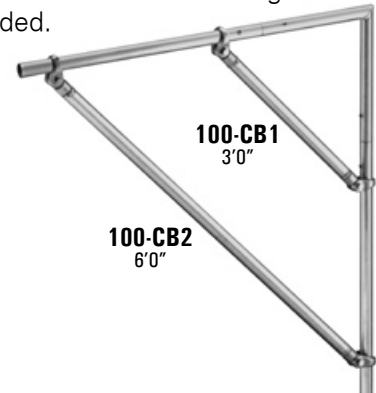
Outriggers are easily connected to the legs of 1" OPTI Trilite structures to add lateral stability.



100-OR1

## Corner Braces

Corner Braces are the perfect way to reinforce corners on 1" OPTI Trilite structures where extra strength is needed.

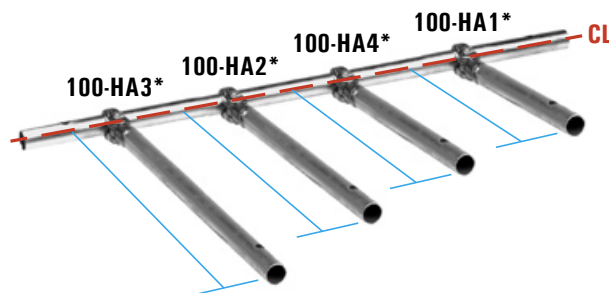


100-CB1  
3'0"

100-CB2  
6'0"

## Hook on Modules

Hook on Modules create strong, temporary junctions. They allow greater flexibility when creating displays, rigging or exhibition stands to fit different spaces and designs.

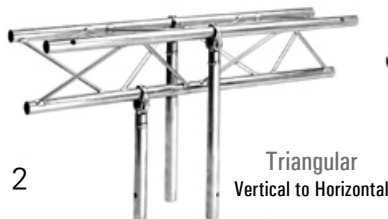


	106	109
HA1	3 7/8"	9 1/2"
HA2	6 7/16"	13 1/2"
HA3	9"	17 1/2"
HA4	4 9/16"	10 9/16"

1. Use 2 x HA1 + 1 x HA2
2. Use 2 x HA3 + 1 x HA4
3. Use 1 x HA1 + 1 x HA2
4. Use 2 x HA3
5. Use 2 x HA4



Triangular  
Horizontal to Horizontal 1



2  
Triangular  
Vertical to Horizontal



3  
Triangular & Ladder  
Horizontal to Horizontal



4  
Ladder  
Vertical to Horizontal



5  
Ladder  
Horizontal to Horizontal

## Hanging Clamps

Both Long (200mm) and Short (70mm) Hanging Clamps are generally used to fix light and sound equipment to OPTI Trilite rigs.



100-HC1  
Short

100-HC2  
Long

Hanging Clamps can be used to fix many other items and other custom hanging accessories, like the 'S' hook below, are also available.



## Panel Supports & Clamps

Panels and slat walls can be held in place or permanently fixed inside 1" OPTI Trilite frames using clamps or supports.

Chrome Panel Clamps come with plastic protectors and can take panels up to 20mm thick.



100-APC2  
Chrome Panel  
Clamp

## Shelf Brackets & Clips

Shelves can be integrated into 1" OPTI Trilite structures using Shelf Brackets or Clips.



100-ASB2  
Double Shelf  
Bracket



100-ASB  
Single Shelf  
Bracket



100-ACL1  
Vertical Panel  
Support

100-ACL2  
Horizontal Panel  
Support\*



100-ACL3  
Chrome Shelf  
Clip



100-ACL4  
Clear Plastic  
Shelf  
Clip

\* The Horizontal Panel Support can also be used for fixing shelving.

The accessories featured are those most commonly specified for use with 2" main tube systems. If the component that you require is not featured contact the DesignLine Service for further assistance.

### Plates, Feet & Ends

Base and wall plates add 1/2" or 4" (extended) to height or width of a structure. Adjustable feet add up to 2" to height.

#### Triangular

210 = 300mm x 150mm  
212 = 14" x 6"  
218 = 20" x 8"  
224 = 26" x 8"



**WP3\***  
Wall Plate



**BP3\***  
Standard Base Plate



**BP3T\***  
Triangular Base Plate



**EBP3\***  
Extended Base Plate

#### Single Tube

**200-BP1**  
Base Plate

**200-AF1**  
Adjustable Foot



**200-EC1 B/W**  
End Caps  
Black/White

**200-WH1**  
Locking Wheel



#### Ladder

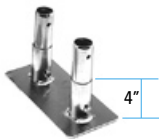
210 = 300mm x 300mm  
212 = 14" x 14"  
218 = 20" x 20"  
224 = 26" x 26"



**WP2\***  
Wall Plate



**BP2\***  
Base Plate



**EBP2\***  
Extended Base Plate

#### Quad

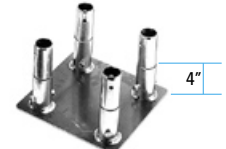
210 = 300mm x 300mm  
212 = 14" x 14"  
218 = 20" x 20"  
224 = 26" x 26"



**WP4\***  
Wall Plate



**BP4\***  
Base Plate



**EBP4\***  
Extended Base Plate

### End Pod Units

End Pods neatly finish off lengths of truss. A clean end/top section, a base section with foot or the end of one length of truss linking to another length with a connector.

#### Triangular



**TPOD\***  
Standard Pod

#### Ladder



**LPOD\***  
Standard Pod

#### Box



**BPOD\***  
Standard Pod

210 = 400mm  
212 = 24"  
218 = 36"  
224 = 48"



**TPODAF\***  
+ Adjustable Foot



**LPODAF\***  
+ Adjustable Foot



**BPODAF\***  
+ Adjustable Foot

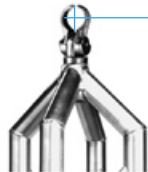
210 = 425mm to 475mm  
212 = 25 1/4" to 27 1/4"  
218 = 37 1/4" x 39 1/4"



**TPODC\***  
+ Connector\*\*



**LPODC\***  
+ Connector\*\*

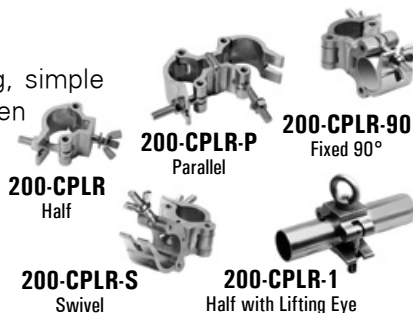


**BPODC\***  
+ Connector\*\*

210 = 502mm  
212 = 28"  
218 = 40"  
224 = 52"

### Couplers

Couplers create strong, simple temporary joins between different types of truss and panelling or can be used to secure other objects to truss structures (or truss to buildings).



**200-CPLR-90**  
Fixed 90°



**200-CPLR-P**  
Parallel



**200-CPLR-S**  
Swivel

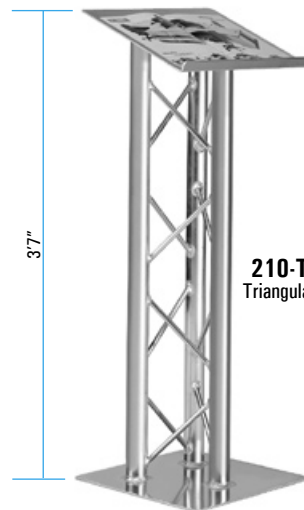


**200-CPLR-1**  
Half with Lifting Eye

### Lecterns

Lecterns can be made using triangular or quad section OPTI Trilite 200.

Lecterns can be custom made to any height.



**210-TR LCT**  
Triangular Lectern

### Literature Display

Brochures and leaflets are easily displayed using free standing literature racks or simply using brochure holders attached to OPTI Trilite structures.



**210-LIT1**  
210 Ladder  
Literature Rack

**BH1**  
Brochure  
Holder

### Securing Clips & Saddle Clamps

Other methods of connecting panels or objects to truss or securing truss to other structures are clic clips and saddle clamps.



**200-CLIC**  
Grey Plastic Clic  
Clip



**200-SC1**  
Spring Clip



**200-SC2**  
Panel Clip



**200-ASD1**  
Steel Saddle Clamp



**200-ASPC1**  
Panel Coupler

# accessories

## Connectors

The Standard Swivel Connector (below) is used on Outriggers, Corner Braces, Hook on Modules and Pod Units.



Many other non-standard Connectors are available for all sorts of custom applications.



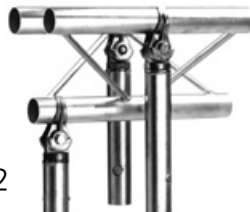
## Hook on Modules

Hook on Modules create strong, temporary junctions. They allow greater flexibility when creating displays, rigging or exhibition stands to fit different spaces and designs.

1. Use 2 x HA1 + 1 x HA2
2. Use 2 x HA3 + 1 x HA4
3. Use 1 x HA1 + 1 x HA2
4. Use 2 x HA3
5. Use 2 x HA4



1  
Triangular  
Horizontal to Horizontal



2  
Triangular  
Vertical to Horizontal



3  
Triangular & Ladder  
Horizontal to Horizontal



4  
Ladder  
Vertical to Vertical



5  
Ladder  
Horizontal to Horizontal

## Hanging Clamps

Both Long (225mm) and Short (125mm) Hanging Clamps are generally used to fix light and sound equipment to OPTI Trilite rigs.



200-HC1  
Short



200-HC2  
Long

## Special Spigot Connectors & Pins



200-QP1  
Quick Release Pin



200-SSP 50  
50mm Spacer Spigot



200-SSP 100  
100mm Spacer Spigot



200-QP2  
Quick Release Pin



200-WSP1  
Half Wall Fixing Spigot

## Hinges

The Standard Hinge (right) is used for flexible joints in all formats.



200-LD HNG  
Ladder



200-BX HNG  
Box



200-TR HNG  
Triangular

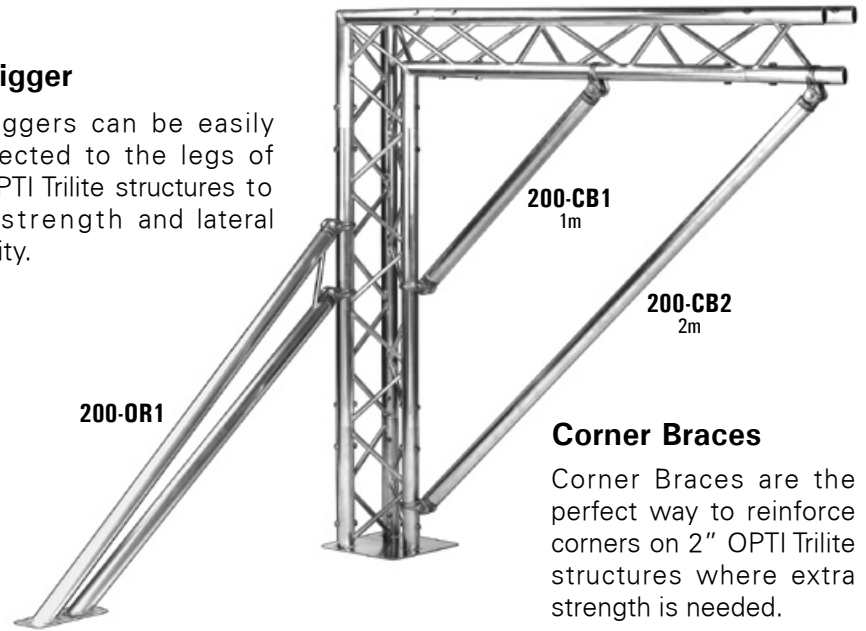
Non Standard Hinges are also available, like this locking hinge or this box hinge connector.



## Outrigger

Outriggers can be easily connected to the legs of 2" OPTI Trilite structures to add strength and lateral stability.

200-OR1



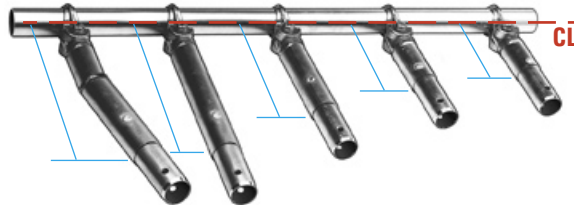
200-CB1  
1m

200-CB2  
2m

## Corner Braces

Corner Braces are the perfect way to reinforce corners on 2" OPTI Trilite structures where extra strength is needed.

200-HADL\* 200-HA3\* 200-HA2\* 200-HA4\* 200-HA1\*



	210	212	218	224
HA1	175mm	13"	27"	25"
HA2	275mm	18"	35"	36"
HA3	375mm	23"	19"	47"
HA4	202mm	14 <sup>9</sup> / <sub>16</sub> "	21 <sup>3</sup> / <sub>16</sub> "	27 <sup>15</sup> / <sub>16</sub> "
HADL	375mm	18"	27"	36"

## Hanging Clamps

Both Long (225mm) and Short (125mm) Hanging Clamps are generally used to fix light and sound equipment to OPTI Trilite rigs.



200-HC1  
Short



200-HC2  
Long

## Special Spigot Connectors & Pins



200-QP1  
Quick Release Pin



200-SSP 50  
50mm Spacer Spigot



200-SSP 100  
100mm Spacer Spigot



200-QP2  
Quick Release Pin



200-WSP1  
Half Wall Fixing Spigot

## Hinges

The Standard Hinge (right) is used for flexible joints in all formats.



200-LD HNG  
Ladder



200-BX HNG  
Box



200-TR HNG  
Triangular

Non Standard Hinges are also available, like this locking hinge or this box hinge connector.



## Reinforcing Collars

Reinforcing Collars are fitted as standard on OPTI Trilite 200+ and can also be fitted to OPTI Trilite 200.



200-RC1  
Reinforcing Collars

## Extrusions

Shelves and flooring can be integrated into 2" OPTI Trilite using different aluminium extrusions.



200-FLE 200  
Floor Extrusion



200-PE 200  
Panel Extrusion

## Fixings

Objects can be secured to 2" OPTI Trilite tube using a variety of methods.



200-EBF  
Forged M10 Eye Bolt

\* When ordering product codes must be prefixed by the series number e.g. for a No. 3 Hook on Module in OPTI Trilite 106 specify 106-HA3. In OPTI Trilite 224 specify 224-HA3.

# Other OPTI Products

OPTI also manufacture the successful OPTI Kinetics range of effects projectors, clock, gobos, bubble bank and strobe systems.

Sales, entertainment, leisure, clubs, TV, exhibitions, advertising promotions and many other uses.

Our Projection & Effects Catalog is available on request, or visit our Website.



**[OPTI]™ Kinetics**



**[OPTI]™**

Optikinetics Ltd.

**USA** 116 Sylvania Road Suite A  
Ashland VA 23005-1320 USA  
Phone +1 800 575 6784  
Fax +1 800 678 4575  
e-mail optius@optikinetics.com

**UK** 38 Cromwell Road  
Luton LU3 1DN England  
Phone +44 (0)1582 411413  
Fax +44 (0)1582 400613  
e-mail optiuk@optikinetics.com

Website [www.optikinetics.com](http://www.optikinetics.com)

**Canada** 123 Walgreen Road Carp  
Ontario K0A 1L0 Canada  
Phone +1 613 836 5856  
Fax +1 613 836 6491  
e-mail optican@optikinetics.com

**Distributor:**

  
**Techni-Lux**  
[www.techni-lux.com](http://www.techni-lux.com)

Phone: 407-857-8770

Fax: 407-857-8771

Email: [sales@techni-lux.com](mailto:sales@techni-lux.com)

E & OE Optikinetics Limited reserve the right to alter specifications without notice.