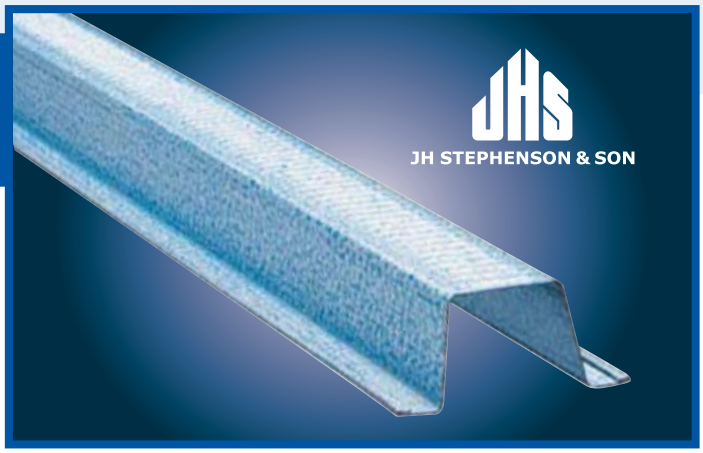
STEELINE 40 TOP HAT BATTENS



BATTEN SPACING FOR RESIDENTIAL STRUCTURES

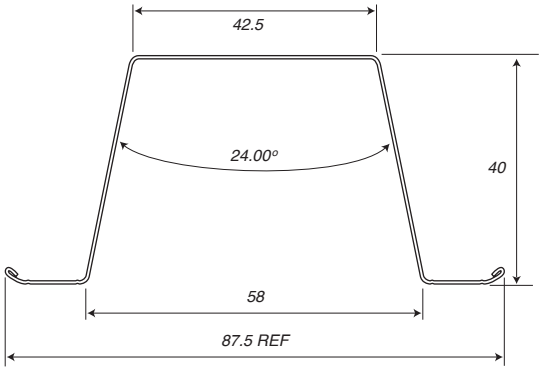
Introduction

These non-cyclonic load tables for Steeline 40mm Battens have been prepared using software developed by the University of Sydney, Australia.

These table comply with the requirements of AS/NZS 4600 and the BCA.

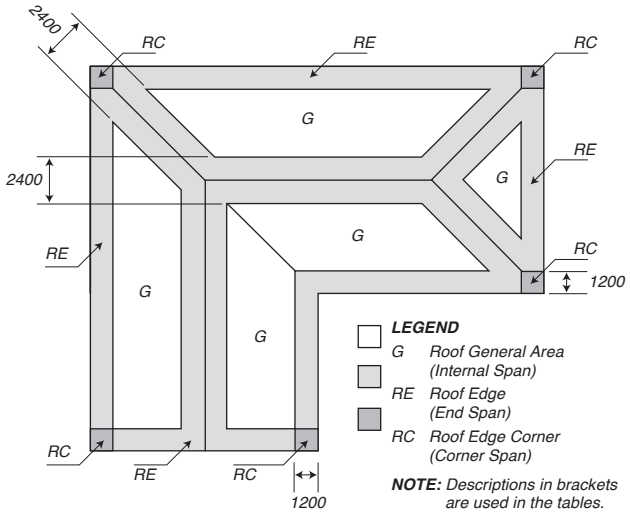
Specifications

The 40mm Battens are manufactured from G550 high tensile steel and are available in 0.48, 0.55 and 0.75mm BMT.



Nominal dimensions are shown

40mm batten profile



Pressure zones on housing roof (plan view)

(Extracted from AS4055-2012)

AS4055 wind classification	Roof pressure zone	AS4055 Wind uplift pressure (kPa)	TH4048 Double Span Battens Batten Spans (mm)		TH4055 Double Span Battens Batten Spans (mm)		TH4075 Double Span Battens Batten Spans (mm)		TH4048 Triple Span Battens Batten Spans (mm)		TH4055 Triple Span Battens Batten Spans (mm)		TH4075 Triple Span Battens Batten Spans (mm)	
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
N1	End	1.25	1550	850	1970	1060	2400	1780	1870	1000	2350	1250	2400	2050
	General	0.69	2400	1540	2400	1930	2400	2400	2400	1810	2400	2260	2400	2400
	Corner	1.81	1070	590	1360	730	2270	1230	1290	690	1620	860	2400	1410
N2	Edge	1.73	1120	610	1420	770	2380	1280	1350	720	1700	900	2400	1480
	General	0.95	2040	1120	2400	1400	2400	2340	2400	1320	2400	1640	2400	2400
	Corner	2.51	770	420	980	530	1640	880	930	500	1170	620	1940	1020
N3	Edge	2.7	720	390	910	490	1520	820	870	460	1090	580	1800	950
	General	1.49	1300	710	1650	890	2400	1490	1570	840	1970	1050	2400	1720
	Corner	3.92	490	270	630	340	1050	570	600	320	750	400	1240	650
N4	Edge	4.02	480	260	610	330	1020	550	580	310	730	390	1210	640
	General	2.21	880	480	1110	600	1860	1000	1060	570	1330	700	2200	1160
	Corner	5.83	330	180	420	230	700	380	400	210	500	270	830	440

** Batten spacings are based on their strength capacities – ensure that suitable fasteners and supports are selected.*
***Exposed roof battens are not trafficable.*

Table 1 Maximum batten spacing for wind uplift forces (mm)

PROUDLY AUSTRALIAN OWNED

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Established 1923

STEELINE 40 TOP HAT BATTENS - 0.75

0.42

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Batten Span						Triple Batten Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Corrugated 0.42/ 3 or 5 x #12-14 Hex. Head Teks (Note 2) per support	N1	Single Span	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700	700 (700)
		End Span	900 (900)	850 (850)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)
		Internal Span	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)
	N2	Single Span	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)
		End Span	900 (900)	610 (610)	900 (900)	740 (740)	900 (900)	740 (740)	900 (900)	720 (720)	900 (900)	840 (840)	900 (900)	840 (840)
		Internal Span	1200 (1200)	1120 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)
	N3	Single Span	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)
		End Span	640 (640)	390 (390)	640 (640)	480 (480)	640 (640)	480 (480)	720 (720)	460 (460)	720 (720)	540 (540)	720 (720)	540 (720)
		Internal Span	1150 (1050)	710 (710)	1150 (1050)	860 (860)	1150 (1050)	860 (860)	1150 (1050)	840 (840)	1200 (1050)	980 (980)	1200 (1050)	980 (980)
	N4	Single Span	700	520	700	640	700	640	700	620	700	700	700	700
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes:
1. *Roof sheet spans in brackets () are for roof sheets connected with 3 screws per support.*
2. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
3. *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
4. *Exposed roof battens are not trafficable*

Table 2.1 Maximum batten spacing for uplift forces - Corrugated (0.42 BMT)

0.48

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
`Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Corrugated 0.48/3 or 5 x 12-14 Hex. Head Teks (Note 2) per support	N1	Single Span	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)
		End Span	1300 (1300)	850 (850)	1300 (1300)	1030 (1030)	1300 (1300)	1030 (1030)	1300 (1300)	1000 (1000)	1300 (1300)	1170 (1170)	1300 (1300)	1030 (1170)
		Internal Span	1700 (1600)	1540 (1540)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)
	N2	Single Span	800 (800)	800 (610)	800 (800)	800 (770)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)
		End Span	990 (990)	610 (610)	990 (990)	740 (740)	990 (990)	740 (740)	1130 (1130)	720 (720)	1130 (1130)	840 (840)	1130 (1130)	840 (840)
		Internal Span	1700 (1600)	1120 (1120)	1600 (1600)	1350 (1350)	1600 (1600)	1350 (1350)	1700 (1600)	1320 (1320)	1700 (1600)	1540 (1540)	1600 (1600)	1540 (1540)
	N3	Single Span	800 (600)	780 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)
		End Span	640 (640)	390 (390)	640 (640)	480 (480)	640 (640)	480 (480)	720 (720)	460 (460)	720 (720)	540 (540)	720 (720)	540 (540)
		Internal Span	1150 (1150)	710 (710)	1150 (1150)	860 (860)	1150 (1150)	860 (860)	1310 (1310)	840 (840)	1310 (1310)	980 (980)	1310 (1310)	980 (980)
	N4	Single Span	800	520	800	640	800	640	800	620	800	720	800	720
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes:
1. *Roof sheet spans in brackets () are for roof sheets connected with 3 screws per support.*
2. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
3. *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
4. *Exposed roof battens are not trafficable.*

Table 2.2 Maximum batten spacing for uplift forces - Corrugated (0.48 BMT)

STEELINE 40 TOP HAT BATTENS - 0.75

0.60

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classification	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Corrugated 0.60/5 x 12-14 Hex. Head Teks* per support	N1	Single Span	1600	1600	1600	1030	1600	1600	1600	1600	1600	1600	1600	1600
		End Span	1370	850	1370	1030	1370	1030	1560	1000	1560	1170	1560	1170
		Internal Span	1800	1540	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	N2	Single Span	1600	1220	1600	1480	1600	1480	1600	1440	1600	1600	1600	1600
		End Span	990	610	990	740	990	740	1130	720	1130	840	1130	840
		Internal Span	1800	1120	1800	1350	1800	1350	1800	1320	1800	1540	1800	1540
	N3	Single Span	1280	780	1280	960	1280	960	1440	920	1440	1080	1440	1080
		End Span	640	390	640	480	640	480	720	460	720	540	720	540
		Internal Span	1150	710	1150	860	1150	860	1310	840	1310	980	1310	980
	N4	Single Span	860	520	860	640	860	640	980	620	980	720	980	720
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes: [1] *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
[2] *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
[3] *Exposed roof battens are not trafficable.*

Table 2.3 Maximum batten spacing for uplift forces - Corrugated (0.60 BMT)

0.42

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classification	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Clad 0.42/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
		End Span	1300	850	1300	1030	1300	1030	1300	1000	1300	1170	1300	1170
		Internal Span	1900	1540	1900	1860	1900	1860	1900	1810	1900	1900	1900	1900
	N2	Single Span	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
		End Span	990	610	990	740	990	740	1130	720	1130	840	1130	840
		Internal Span	1810	1120	1810	1350	1810	1350	1900	1320	1900	1540	1900	1540
	N3	Single Span	1100	780	1100	960	1100	960	1100	960	1100	1080	1100	1080
		End Span	640	390	640	480	640	480	720	460	720	540	720	540
		Internal Span	1150	710	1150	860	1150	860	1310	840	1310	980	1310	980
	N4	Single Span	860	520	860	640	860	640	980	620	980	720	980	720
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes: [1] *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
[2] *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
[3] *Exposed roof battens are not trafficable.*

Table 2.4 Maximum batten spacing for uplift forces - Steel Clad (0.42 BMT)

STEELINE 40 TOP HAT BATTENS - 0.75

0.48

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Clad 0.48/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
		End Span	1370	850	1370	1030	1370	1030	1560	1000	1560	1170	1560	1170
		Internal Span	2490	1540	2490	1860	2490	1860	2600	1810	2600	2120	2600	2120
	N2	Single Span	1600	1220	1600	1480	1600	1480	1600	1440	1600	1600	1600	1600
		End Span	990	610	990	740	990	740	1130	720	1130	840	1130	840
		Internal Span	1810	1120	1810	1350	1810	1350	2050	1320	2050	1540	2050	1540
	N3	Single Span	1280	780	1280	960	1280	960	1440	920	1440	1080	1440	1080
		End Span	640	390	640	480	640	480	720	460	720	540	720	540
		Internal Span	1150	710	1150	860	1150	860	1310	840	1310	980	1310	980
	N4	Single Span	860	520	860	640	860	640	980	620	980	720	980	720
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes: 1. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
2. *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
3. *Exposed roof battens are not trafficable*

Table 2.5 Maximum batten spacing for uplift forces - Steel Clad (0.48 BMT)

0.42

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/ no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Span 0.42/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
		End Span	1370	850	1370	1030	1370	1030	1560	1000	1560	1170	1560	1170
		Internal Span	2400	1540	2400	1860	2400	1860	2400	1810	2400	2120	2400	2120
	N2	Single Span	1300	1220	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
		End Span	990	610	990	740	990	740	1130	720	1130	840	1130	840
		Internal Span	1810	1120	1810	1350	1810	1350	2000	1320	2000	1540	2000	1540
	N3	Single Span	1280	780	1280	960	1280	960	1300	920	1300	1080	1300	1080
		End Span	640	390	640	480	640	480	720	460	720	540	720	540
		Internal Span	1150	710	1150	860	1150	860	1310	840	1310	980	1310	980
	N4	Single Span	860	520	860	640	860	640	980	620	980	720	980	720
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes: 1. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
2. *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
3. *Exposed roof battens are not trafficable*

Table 2.6 Maximum batten spacing for uplift forces - Steel Span (0.42 BMT)

STEELINE 40 TOP HAT BATTENS - 0.75

0.48

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Span 0.48/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	2000	1700	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
		End Span	1370	850	1370	1030	1370	1030	1560	1000	1560	1170	1560	1170
		Internal Span	2490	1540	2490	1860	2490	1860	2700	1810	2700	2120	2700	2120
	N2	Single Span	1980	1220	1980	1440	1980	1440	2000	1440	2000	1680	2000	1680
		End Span	990	610	990	740	990	740	1130	720	1130	840	1130	840
		Internal Span	1810	1120	1810	1350	1810	1350	2050	1320	2050	1540	2050	1540
	N3	Single Span	1280	780	1280	960	1280	960	1440	920	1440	1080	1440	1080
		End Span	640	390	640	480	640	480	720	460	720	540	720	540
		Internal Span	1150	710	1150	860	1150	860	1310	840	1310	980	1310	980
	N4	Single Span	860	520	860	640	860	640	980	620	980	720	980	720
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes: [1] *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
[2] *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
[3] *Exposed roof battens are not trafficable.*

Table 2.7 Maximum batten spacing for uplift forces - Steel Span (0.48 BMT)

0.42

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Lokdek 0.42/3 x 12-14 Hex. Head Teks* per clip	N1	Single Span	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
		End Span	1370	850	1370	1030	1370	1030	1500	1000	1500	1170	1500	1170
		Internal Span	1800	1540	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	N2	Single Span	1650	1220	1650	1480	1650	1480	1650	1440	1650	1650	1650	1650
		End Span	990	610	990	740	990	740	1130	720	1130	840	1130	840
		Internal Span	1800	1120	1800	1350	1800	1350	1800	1320	1800	1540	1800	1540
	N3	Single Span	1280	780	1280	960	1280	960	1440	920	1440	1080	1440	1080
		End Span	640	390	640	480	640	480	720	460	720	540	720	540
		Internal Span	1150	710	1150	860	1150	860	1310	840	1310	980	1310	980
	N4	Single Span	860	520	860	640	860	640	980	620	980	720	1300	980
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes: [1] *Use #12-14x40mm Hex Head screws to fix Lokdek clips to steel supports and #12-11x40mm Hex Head screws for fixing to timber supports.*
[2] *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
[3] *Exposed roof battens are not trafficable*

Table 2.8 Maximum batten spacing for uplift forces - Lokdek (0.42 BMT)

STEELINE 40 TOP HAT BATTENS - 0.75

0.48

Batten Support – G550/0.75mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Lokdek 0.48/3 x 12-14 Hex. Head Teks* per clip	N1	Single Span	1800	1700	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
		End Span	1370	850	1370	1030	1370	1030	1560	1000	1560	1170	1560	1170
		Internal Span	2400	1540	2400	1860	2400	1860	2400	1810	2400	2120	2400	2120
	N2	Single Span	1800	1220	1800	1480	1800	1480	1800	1440	1800	1680	1800	1680
		End Span	990	610	990	740	990	740	1130	720	1130	840	1130	840
		Internal Span	1810	1120	1810	1350	1810	1350	2050	1320	2050	1540	2050	1540
	N3	Single Span	1280	780	1280	960	1280	960	1440	920	1440	1080	1440	1080
		End Span	640	390	640	480	640	480	720	460	720	540	720	540
		Internal Span	1150	710	1150	860	1150	860	1310	840	1310	980	1310	980
	N4	Single Span	860	520	860	640	860	640	980	620	980	720	980	720
		End Span	430	260	430	320	430	320	490	310	490	360	490	360
		Internal Span	780	480	780	580	780	580	880	570	880	660	880	660

Notes: 1. *Use #12-14x40mm Hex Head screws to fix Lokdek clips to steel supports and #12-11x40mm Hex Head screws for fixing to timber supports.*
2. *Use #12-14x20mm Hed Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
3. *Exposed roof battens are not trafficable.*

Table 2.9 Maximum batten spacing for uplift forces - Lokdek 680 (0.48 BMT)

STEELINE 40 TOP HAT BATTENS - 1.0

0.42

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Batten Span						Triple Batten Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Corrugated 0.42/ 3 or 5 x #12-14 Hex. Head Teks (Note 2) per support	N1	Single Span	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)
		End Span	900 (900)	850 (850)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)
		Internal Span	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)	1200 (1200)
	N2	Single Span	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)	700 (700)
		End Span	900 (900)	610 (610)	900 (900)	770 (770)	900 (900)	900 (900)	900 (900)	720 (720)	900 (900)	900 (900)	900 (900)	900 (900)
		Internal Span	1200 (1200)	1120 (1120)	1200 (1200)	1200 (1200	1200 (1200	1200 (1200	1200 (1200	1200 (1200	1200 (1200	1200 (1200	1200 (1200	1200 (1200
	N3	Single Span	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)	700 (600)
		End Span	720 (720)	390 (390)	850 (750)	490 (490)	850 (750)	640 (640)	870 (750)	460 (460)	900 (750)	580 (580)	900 (750)	720 (720)
		Internal Span	1200 (1050)	710 (710)	1200 (1050)	890 (890)	1200 (1050)	1150 (1050)	1200 (1050)	840 (840)	1200 (1050)	1050 (1050)	1200 (1050)	1200 (1050)
	N4	Single Span	700	520	700	660	700	700	700	620	700	700	700	700
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes:
1. *Roof sheet spans in brackets () are for roof sheets connected with 3 screws per support.*
2. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
3. *Use #12-14x20mm Hex Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
4. *Exposed roof battens are not trafficable.*
5. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.1 Maximum batten spacing for uplift forces - Corrugated (0.42 BMT)

0.48

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Corrugated 0.48/3 or 5 x 12-14 Hex. Head Teks (Note 2) per support	N1	Single Span	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)
		End Span	1300 (1300)	850 (850)	1300 (1300)	1060 (1060)	1300 (1300)	1300 (1300)	1300 (1300)	1000 (1000)	1300 (1300)	1250 (1250)	1300 (1300)	1300 (1300)
		Internal Span	1700 (1600)	1540 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)	1700 (1600)
	N2	Single Span	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)	800 (800)
		End Span	1120 (1120)	610 (610)	1300 (1300)	770 (710)	1300 (1300)	990 (990)	1300 (1300)	720 (720)	1300 (1300)	900 (900)	1300 (1300)	1130 (1130)
		Internal Span	1700 (1600)	1120 (1120)	1700 (1600)	1400 (1400)	1700 (1600)	1700 (1600)	1700 (1600)	1320 (1320)	1700 (1600)	1640 (1600)	1700 (1600)	1700 (1600)
	N3	Single Span	800 (600)	780 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)	800 (600)
		End Span	720 (720)	390 (390)	850 (850)	490 (490)	850 (850)	640 (640)	870 (870)	460 (460)	960 (960)	580 (580)	960 (960)	720 (720)
		Internal Span	1300 (1300)	710 (710)	1540 (1540)	890 (890)	1540 (1540)	1150 (1150)	1570 (1550)	840 (840)	1700 (1550)	1050 (1050)	1600 (1550)	1310 (1310)
	N4	Single Span	800	520	800	660	800	800	800	620	800	780	800	800
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes:
1. *Roof sheet spans in brackets () are for roof sheets connected with 3 screws per support.*
2. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
3. *Use #12-14x20mm Hex Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
4. *Exposed roof battens are not trafficable.*
5. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.2 Maximum batten spacing for uplift forces - Corrugated (0.48 BMT)

STEELINE 40 TOP HAT BATTENS - 1.0

0.60

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Corrugated 0.60/5 x 12-14 Hex. Head Teks* per support	N1	Single Span	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
		End Span	1550	850	1600	1060	1600	1370	1600	1000	1600	1250	1600	1560
		Internal Span	1800	1540	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	N2	Single Span	1600	1220	1600	1540	1600	1600	1600	1440	1600	1600	1600	1600
		End Span	1120	610	1320	770	1320	990	1350	720	1500	900	1500	1130
		Internal Span	1800	1120	1800	1400	1800	1800	1800	1320	1800	1640	1800	1800
	N3	Single Span	1440	780	1600	980	1600	1280	1600	920	1600	1160	1600	1440
		End Span	720	390	850	490	850	640	870	460	960	580	960	720
		Internal Span	1300	710	1540	890	1540	1150	1570	840	1750	1050	1750	1310
	N4	Single Span	960	520	1140	660	1140	860	1160	620	1300	780	1300	980
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes
1. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
2. *Use #12-14x20mm Hax Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
3. *Exposed roof battens are not trafficable.*
4. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.3 Maximum batten spacing for uplift forces - Corrugated (0.60 BMT)

0.42

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classi-fication	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Clad 0.42/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
		End Span	1300	850	1300	1060	1300	1300	1300	1000	1300	1250	1300	1300
		Internal Span	1900	1540	1900	1900	1900	1900	1900	1810	1900	1900	1900	1900
	N2	Single Span	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
		End Span	1120	610	1300	770	1300	990	1300	720	1300	900	1300	1130
		Internal Span	1900	1120	1900	1400	1900	1810	1900	1320	1900	1640	1900	1900
	N3	Single Span	1100	780	1100	980	1100	1100	1100	920	1100	1100	1100	1100
		End Span	720	390	850	490	850	640	870	460	960	580	960	720
		Internal Span	1300	710	1540	890	1540	1150	1300	840	1750	1050	1750	1310
	N4	Single Span	960	520	1100	660	1100	860	1100	620	1100	780	1100	980
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes
1. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
2. *Use #12-14x20mm Hax Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
3. *Exposed roof battens are not trafficable.*
4. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.4 Maximum batten spacing for uplift forces - Steel Clad (0.42 BMT)

STEELINE 40 TOP HAT BATTENS - 1.0

0.48

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Clad 0.48/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
		End Span	1550	850	1800	1060	1800	1370	1800	1000	1800	1250	1800	1560
		Internal Span	2600	1540	2600	1920	2600	2490	2600	1810	2600	2260	2600	2600
	N2	Single Span	1600	1220	1600	1540	1600	1600	1600	1440	1600	1600	1600	1600
		End Span	1120	610	1320	770	1320	990	1350	720	1500	900	1500	1130
		Internal Span	2040	1120	2410	1400	2410	1810	2460	1320	2600	1640	2600	2050
	N3	Single Span	1600	1600	1600	980	1600	1280	1600	920	1600	1160	1600	1440
		End Span	720	390	850	490	850	640	870	460	960	580	960	720
		Internal Span	1300	710	1540	890	1540	1150	1570	840	1750	1050	1750	1310
	N4	Single Span	960	520	1140	660	1140	860	1160	620	1300	780	1300	980
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes
1. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths*
2. *Use #12-14x20mm Hax Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
3. *Exposed roof battens are not trafficable*
4. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm*

Table 3.5 Maximum batten spacing for uplift forces - Steel Clad (0.48 BMT)

0.42

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/ no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Span 0.42/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
		End Span	1550	850	1800	1060	1800	1370	1800	1000	1800	1250	1800	1560
		Internal Span	2400	1540	2400	1930	2400	2400	2400	1810	2400	2260	2400	2400
	N2	Single Span	1300	1220	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
		End Span	1120	610	1320	770	1320	990	1350	720	1500	900	1500	1130
		Internal Span	2040	1120	2400	1400	2400	1810	2400	1320	2400	1640	2400	2050
	N3	Single Span	1300	780	1300	980	1300	1280	1300	920	1300	1160	1300	1300
		End Span	720	390	850	490	850	640	870	460	960	580	960	720
		Internal Span	1300	710	1540	890	1540	1150	1570	840	1750	1050	1750	1310
	N4	Single Span	960	520	1140	640	1140	860	1160	620	1300	780	1300	980
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes
1. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
2. *Use #12-14x20mm Hex Head screws for fixing battens to steel supports and #12-11x40mm Hex Head screws for fixing to timber supports.*
3. *Exposed roof battens are not trafficable.*
4. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.6 Maximum batten spacing for uplift forces - Steel Span (0.42 BMT)

STEELINE 40 TOP HAT BATTENS - 1.0

0.48

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Steel Span 0.48/4 x 12-14 Hex. Head Teks* per support	N1	Single Span	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
		End Span	1550	850	1830	1060	1830	1370	1870	1000	2080	1250	2080	1560
		Internal Span	2700	1540	2700	1930	2700	2490	2700	1810	2700	2260	2700	2700
	N2	Single Span	2000	1220	2000	1540	2000	1980	2000	1440	2000	1800	2000	2000
		End Span	1120	610	1320	770	1320	990	1350	720	1500	900	1500	1130
		Internal Span	2040	1120	2400	1400	2400	1810	2460	1320	2700	1640	2700	2050
	N3	Single Span	1440	780	1700	980	1700	1280	1740	920	1800	1160	1800	1440
		End Span	720	390	850	490	850	640	870	460	960	580	960	720
		Internal Span	1300	710	1540	890	1540	1150	1570	840	1750	1050	1750	1310
	N4	Single Span	960	520	1140	660	1140	860	1160	620	1300	780	1300	980
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes
1. *M6 Roof Zips may be used instead of #12-14 Roof Teks. Refer to Steeline product brochure to obtain correct roofing screw lengths.*
2. *Use #12-14x20mm Hax Head Teks for fixing battens to steel supports and #12-11x40mm Hex Head Batten Zips for fixing to timber supports.*
3. *Exposed roof battens are not trafficable.*
4. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.7 Maximum batten spacing for uplift forces - Steel Span (0.48 BMT)

0.42

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Lokdek 0.42/3 x 12-14 Hex. Head Teks* per clip	N1	Single Span	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
		End Span	1500	850	1500	1060	1500	1370	1500	1000	1500	1250	1500	1500
		Internal Span	1800	1540	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	N2	Single Span	1650	1220	1650	1540	1650	1650	1650	1440	1650	1650	1650	1650
		End Span	1120	610	1320	770	1320	990	1350	720	1500	900	1500	1130
		Internal Span	1800	1120	1800	1400	1800	1800	1800	1320	1800	1640	1800	1800
	N3	Single Span	1440	780	1650	980	1650	1280	1650	920	1650	1160	1650	1440
		End Span	720	390	850	490	850	640	870	460	960	580	960	720
		Internal Span	1300	710	1540	890	1540	1150	1570	840	1750	1050	1750	1310
	N4	Single Span	960	520	1140	660	1140	860	1160	620	1300	780	1300	980
		End Span	480	260	570	330	570	430	580	310	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	600	1180	710	1180	880

Notes
1. *Use #12-14x20mm Hex Head screws for fixing Lokdek Clips to steel supports and #12-11x40mm Hex Head screws for fixing to timber supports.*
2. *Use #12-14x20mm Hex Head screws for fixing battens to steel supports and #12-11x40mm Hex Head screws for fixing to timber supports.*
3. *Exposed roof battens are not trafficable.*
4. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.8 Maximum batten spacing for uplift forces - Lokdek (0.42 BMT)

STEELINE 40 TOP HAT BATTENS - 1.0

0.48

Batten Support – G550/1.0mm BMT (2 x 12-14 Hex. Head Teks per support)														
Roof sheet/no. of screws	AS4055 wind classifi-cation	Span on roof	TH4048		TH4055		TH4075		TH4048		TH4055		TH4075	
			Double Span						Triple Span					
			Batten Span (mm)						Batten Span (mm)					
			900	1200	900	1200	900	1200	900	1200	900	1200	900	1200
Lokdek 0.48/3 x 12-14 Hex. Head Teks* per clip	N1	Single Span	1800	1700	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
		End Span	1550	850	1800	1060	1800	1370	1800	1000	1800	1250	1800	1560
		Internal Span	2400	1540	2400	1930	2400	2400	2400	1810	2400	2260	2400	2400
	N2	Single Span	1800	1220	1800	1540	1800	1800	1800	1440	1800	1800	1800	1800
		End Span	1120	610	1320	770	1320	990	1350	720	1500	900	1500	1130
		Internal Span	2040	1120	2400	1400	2400	1810	2400	1320	2400	1640	2400	2050
	N3	Single Span	1440	780	1700	980	1700	1280	1740	920	1800	1160	1800	1440
		End Span	720	390	850	490	850	640	870	460	960	580	960	720
		Internal Span	1300	710	1540	890	1540	1150	1570	840	1750	1050	1750	1310
	N4	Single Span	960	520	1140	660	1140	860	1200	640	1300	780	1300	980
		End Span	480	260	570	330	570	430	600	320	650	390	650	490
		Internal Span	880	480	1040	600	1040	780	1060	570	1180	710	1180	880

Notes
1. *Use #12-14x20mm Hex Head screws for fixing Lokdek Clips to steel supports and #12-11x40mm Hex Head screws for fixing to timber supports.*
2. *Use #12-14x20mm Hex Head screws for fixing battens to steel supports and #12-11x40mm Hex Head screws for fixing to timber supports.*
3. *Exposed roof battens are not trafficable.*
4. *Table is valid for hardwood/softwood supports with either #10-12 or #12-11 Buildex Zips and a minimum embedment of 36mm.*

Table 3.9 Maximum batten spacing for uplift forces - Lokdek (0.48 BMT)