

# COLORBEAM™ PITCHED ROOF SPAN TABLES

Non Cyclonic Areas

Carports → Awnings → Patios → Verandahs

colorbeam™

**Connection 1**  
Apex Connection – Rafter Frame

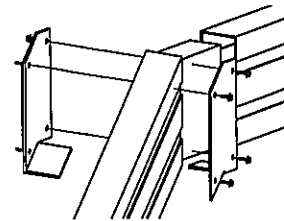
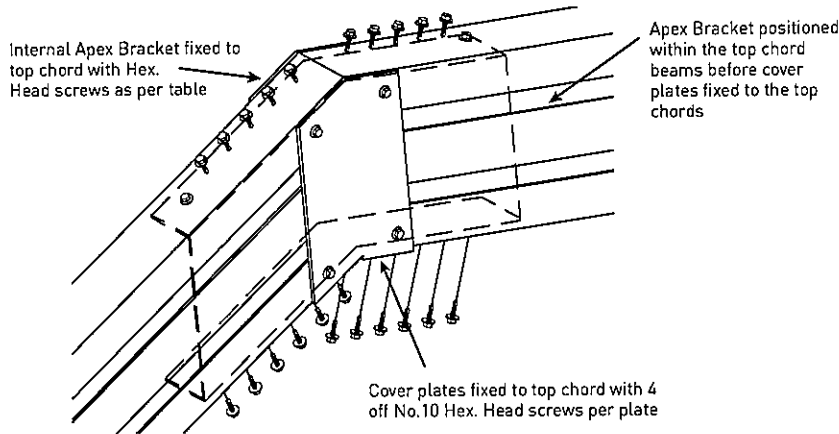
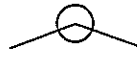


Figure 1

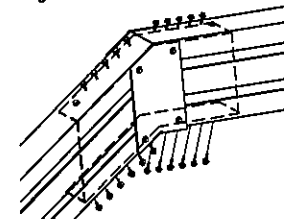


Figure 2

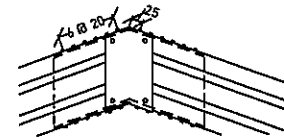


Figure 3

Colorbeam Type	Screw Size	# of Screws	Minimum Screw Spacing (mm)
CB100-12	No.12	6	17
CB150-16	No.12	8	17
CB200-20	No.14	8	19

**Connection 2**  
Apex Connection – Collar Tie Frame or No Web Truss

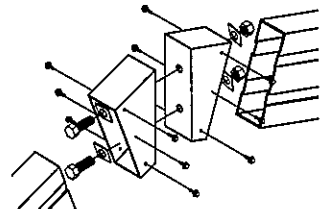
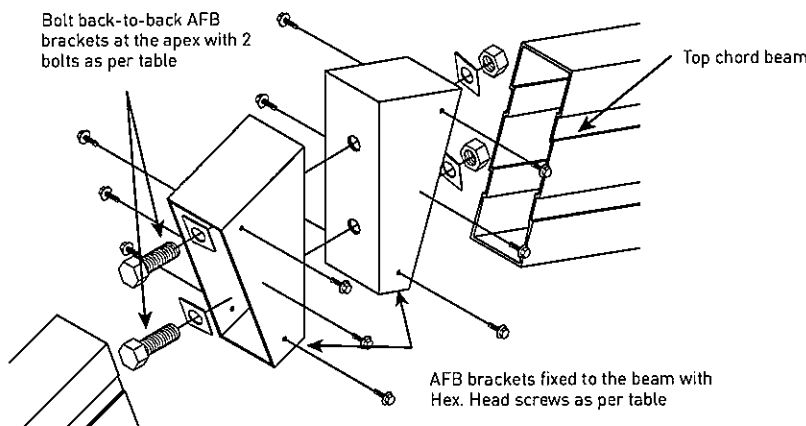
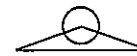


Figure 1

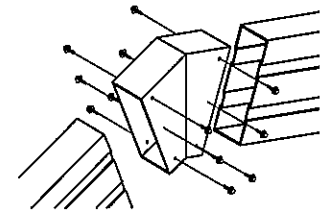


Figure 2

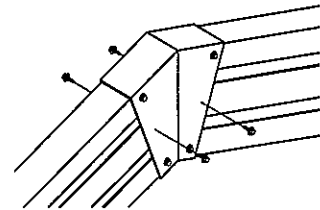


Figure 3

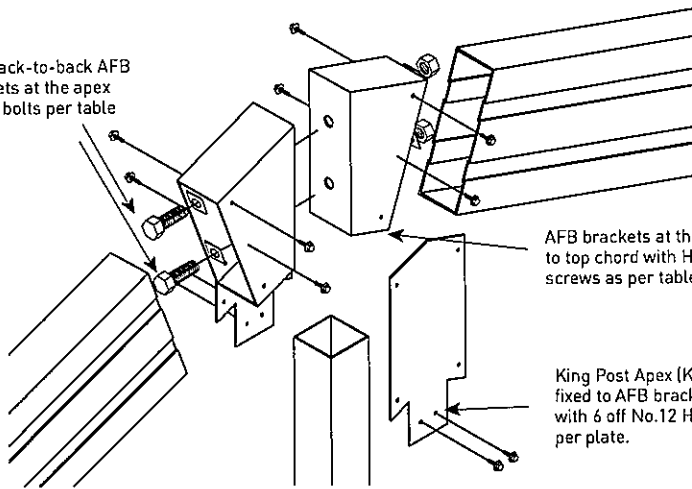
Use 40mm x 40mm x 3.0mm thick square washers

Colorbeam Type	Bolt Size	Bolt Spacing	Screw Size	# of Screws
CB100-12	M10	-	No.12	6
CB150-16	M12	125	No.12	6
CB200-20	M12	175	No.12	8

**Connection 3**  
Apex Connection – King Post Truss



Bolt back-to-back AFB brackets at the apex with 2 bolts per table



AFB brackets at the apex fixed to top chord with Hex. Head screws as per table

King Post Apex (KPA) Bracket fixed to AFB brackets and strut with 6 off No.12 Hex. Head screws per plate.

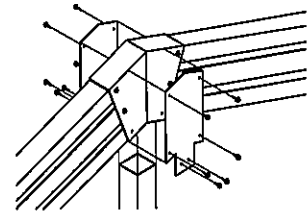


Figure 1

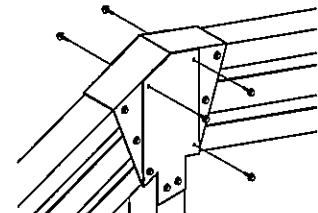


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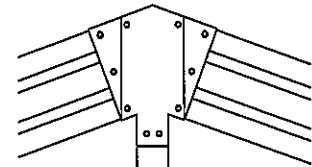
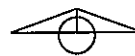


Figure 3

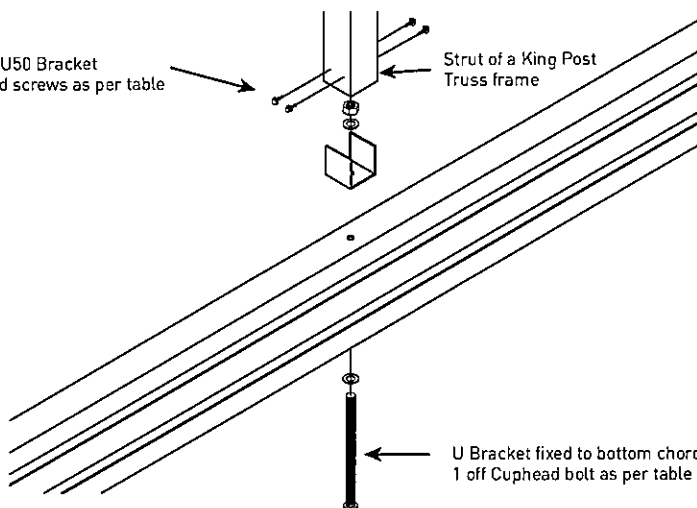
Use 40mm x 40mm x 3.0mm thick square washers

Colorbeam Type	Bolt Size	Bolt Spacing	Screw Size	# of Screws
CB100-12	M10	-	No.12	6
CB150-16	M12	125	No.12	6
CB200-20	M12	175	No.12	8

**Connection 4**  
Strut to Bottom Chord Connection – King Post Truss



Strut fixed to IU50 Bracket with Hex. Head screws as per table



Strut of a King Post Truss frame

U Bracket fixed to bottom chord with 1 off Cuphead bolt as per table

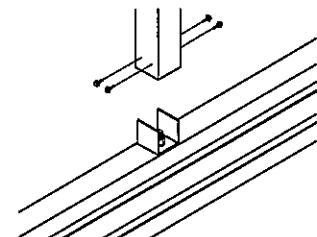


Figure 1

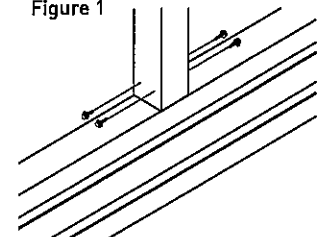


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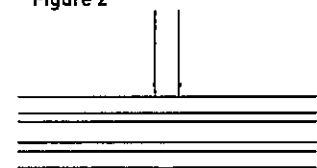


Figure 3

Use 32mm diameter x 2.5mm thick washers

Colorbeam Type	Bolt Size	Screw Size	# of Screws
CB100-12	M8	No.12	4
CB150-16	M8	No.12	4
CB200-20	M8	No.12	4

**Connection 5**  
Collar Tie Connection – Collar Tie Frame

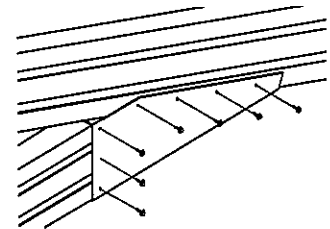
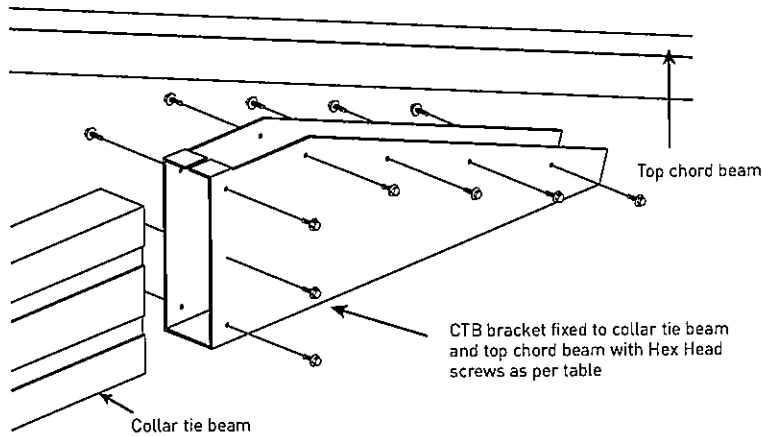
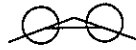


Figure 1

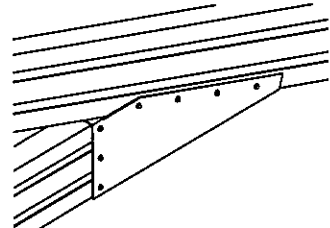


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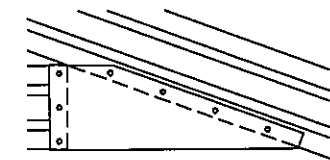


Figure 3

Colorbeam Type	CTB – Collar Tie		CTB – Top Chord	
	Screw Size	# of Screws	Screw Size	# of Screws
CB100-12	No.10	6	No.10	8
CB150-16	No.12	6	No.12	8
CB200-20	No.12	10	No.12	10

**Connection 6**  
Heel Connection – No Web Truss or King Post Truss

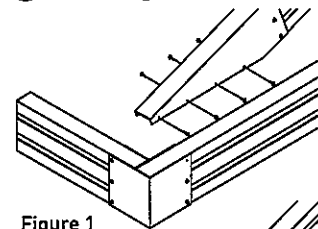
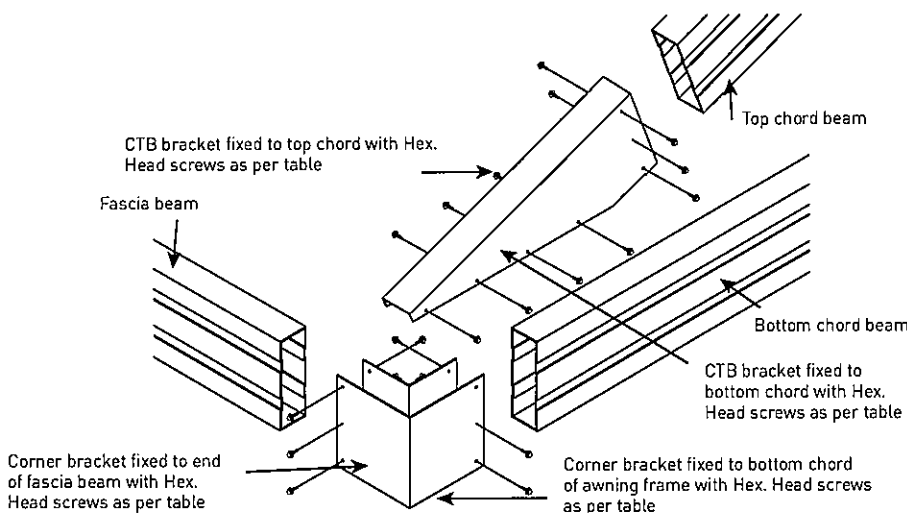


Figure 1

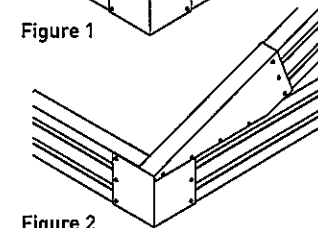


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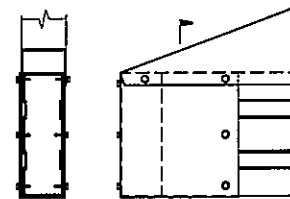


Figure 3

Figure 4

Figure 3 - section of the connection detail for correct CTB bracket installation

Colorbeam Type	CTB – Top Chord (TC)/Bottom Chord (BC)		Corner Bracket – Fascia Beam/Bottom Chord	
	Screw Size	# of Screws TC/BC	Screw Size	# of Screws
CB100-12	No.12	6/8	No.10	6
CB150-16	No.12	6/8	No.12	6
CB200-20	No.12	10/10	No.12	8

**Connection 7**  
**End Frame Connection – Rafter Frame or Collar Tie Frame**

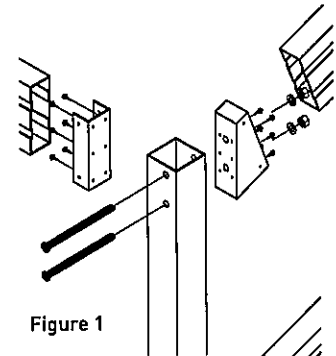
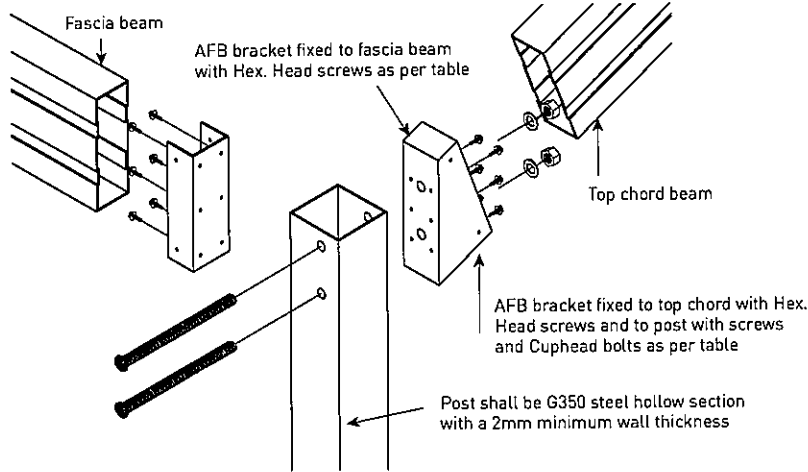


Figure 1

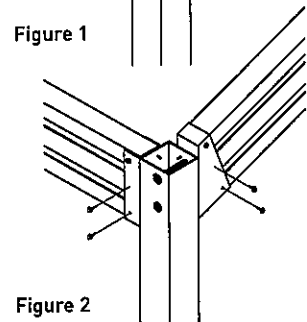


Figure 2

Use 32mm diameter x 2.5mm thick washers with nuts

Colorbeam Type	AFB – Top Chord/Post		AFB – Fascia Beam	
	Screw/Bolt Size	# of Screws/Bolts	Screw Size	# of Screws
CB100-12	No.12/M10	6/2	No.10/No.12	8/6
CB150-16	No.12/M12	6/2	No.12	8
CB200-20	No.12/M12	8/2	No.12	10

**Connection 8**  
**End Frame Connection – Rafter Frame or Collar Tie Frame**

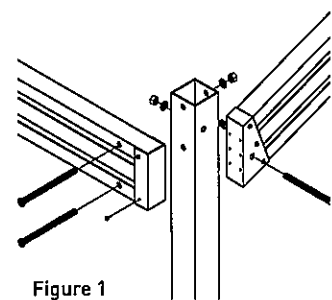
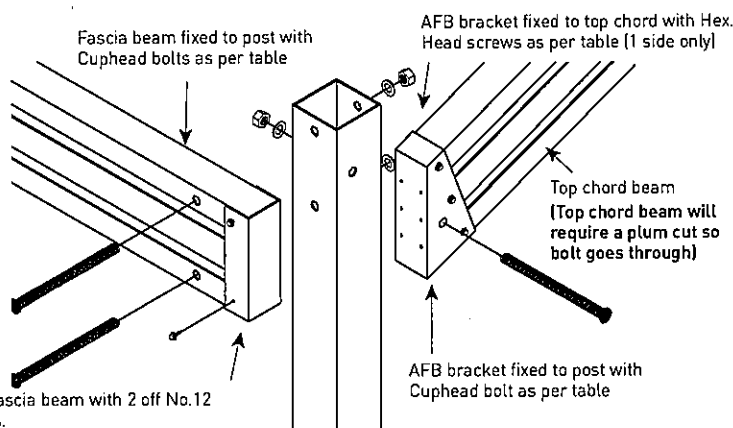


Figure 1

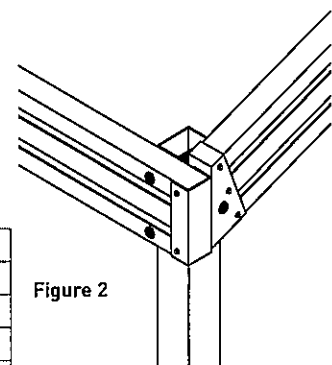


Figure 2

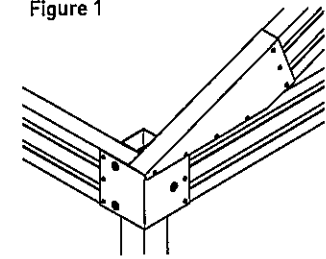
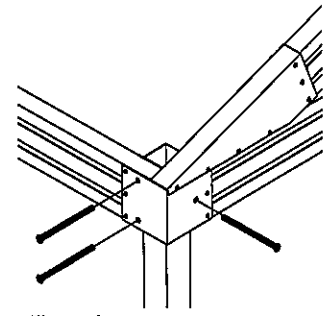
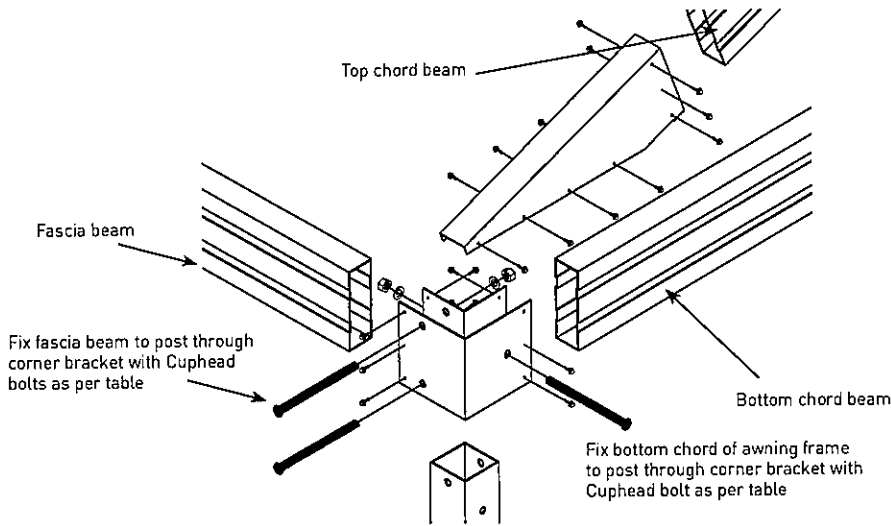
End cap fixed to fascia beam with 2 off No.12 Hex. Head screws.

End cap and AFB bracket connected with 6 off No.12 (CB100-12 & CB150-16) and 8 off No.12 (CB200-20) Hex Head screws (not shown for clarity)

Use standard washers with nuts

Colorbeam Type	AFB – Top Chord/Post		Post – Fascia Beam	
	Screw/Bolt Size	# of Screws/Bolts	Bolt Size	# of Bolts
CB100-12	No.12/M10	6/1	M10	2
CB150-16	No.12/M12	6/1	M12	2
CB200-20	No.12/M12	8/1	M12	2

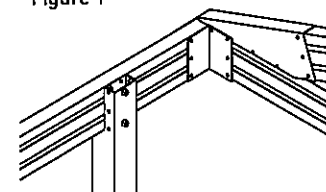
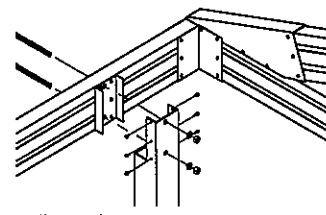
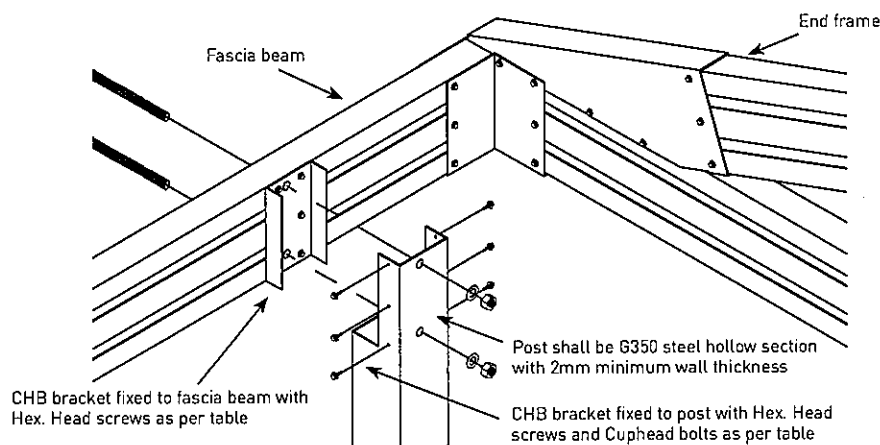
**Connection 9**  
**Corner Post Connection – No Fascia Beam Overhang**



Use standard washers with nuts

Colorbeam Type	Corner Bracket – Fascia Beam/Post		Corner Bracket – Bottom Chord/Post	
	Bolt Size	# of Bolts	Bolt Size	# of Bolts
CB100-12	M10	2	M10	1
CB150-16	M12	2	M12	1
CB200-20	M12	2	M12	1

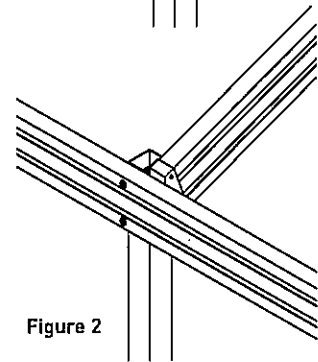
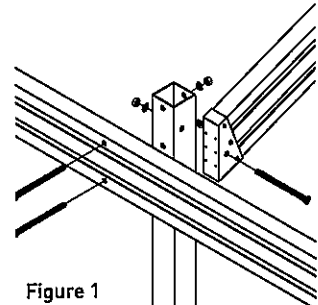
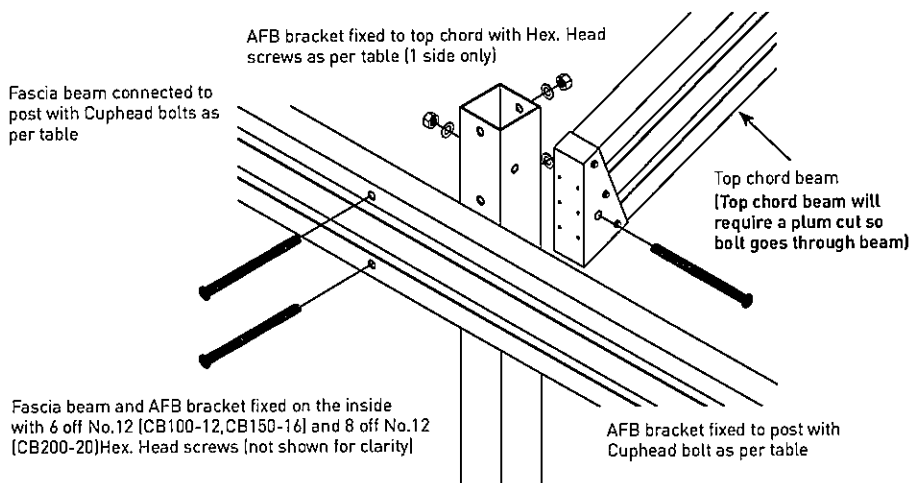
**Connection 10**  
**Rebated Corner Post Connection with Fascia Beam Overhang**



Use standard washers with nuts

Colorbeam Type	CHB – Fascia Beam		Fascia Beam/CHB – Post	
	Screw Size	# of Screws	Screw/Bolt Size	# of Screws/Bolts
CB100-12	No.10	8	No.10/M10	6/2
CB150-16	No.12	8	No.12/M12	6/2
CB200-20	No.12	10	No.12/M12	8/2

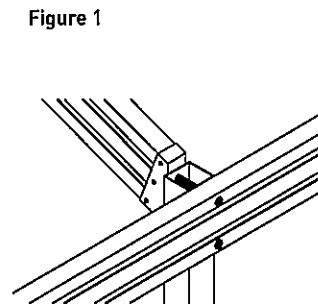
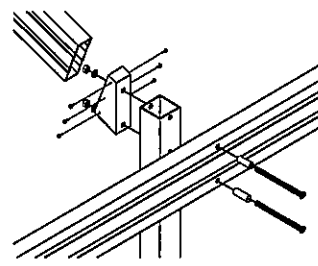
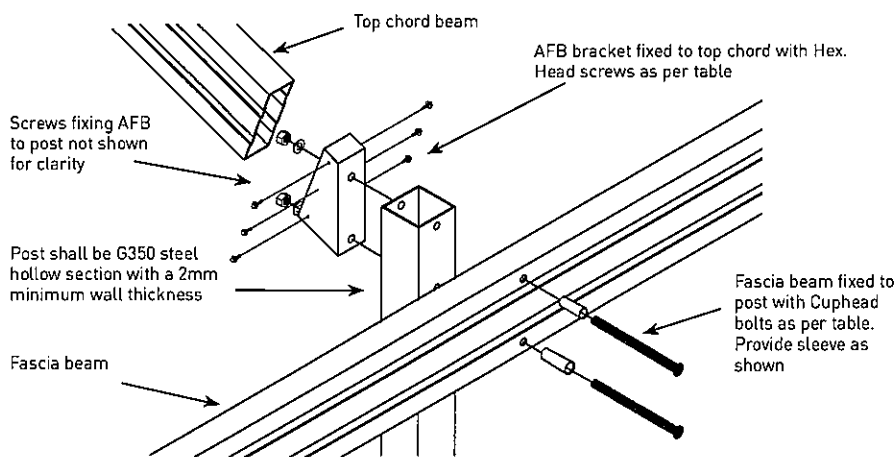
**Connection 11**  
Internal Frame Connection to Side of Post



Use standard washers with nuts

Colorbeam Type	AFB – Top Chord/Post		Post – Fascia Beam	
	Screw/Bolt Size	# of Screws/Bolts	Bolt Size	# of Bolts
CB100-12	No.12/M10	3/1	M10	2
CB150-16	No.12/M12	3/1	M12	2
CB200-20	No.12/M12	4/1	M12	2

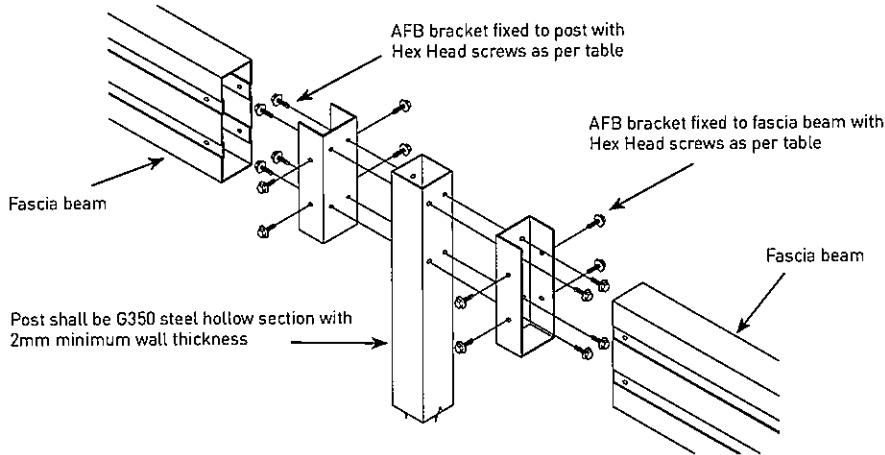
**Connection 12**  
Internal Frame Connection to Inside of Post



Use 32mm diameter x 2.5mm thick washers with nuts

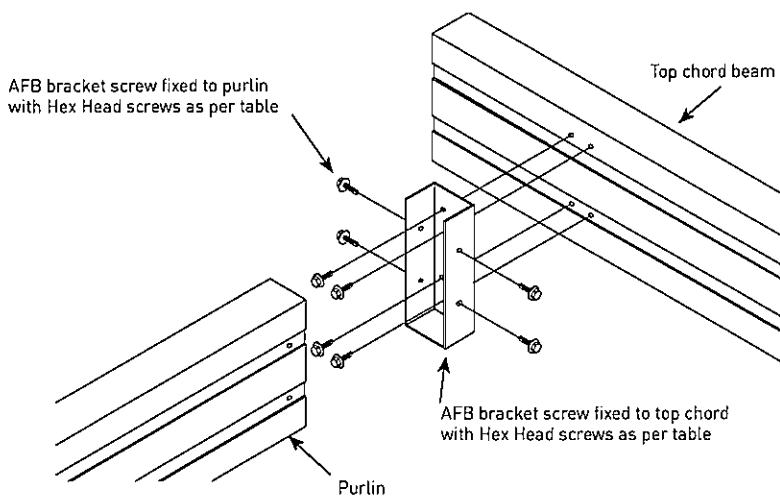
Colorbeam Type	AFB – Post/Fascia Beam		AFB – Top Chord / Post	
	Bolt Size	# of Bolts	Screw Size	# of Screws
CB100-12	M10	2	No.10/No.12	8/6
CB150-16	M12	2	No.12	6
CB200-20	M12	2	No.12	8

**Connection 13**  
Fascia Beam End Connection to an Internal Post



Colorbeam Type	AFB - Fascia Beam		AFB - Post	
	Screw Size	# of Screws	Screw Size	# of Screws
CB100-12	No.12	6	No.12	6
CB150-16	No.12	6	No.12	6
CB200-20	No.12	8	No.12	8

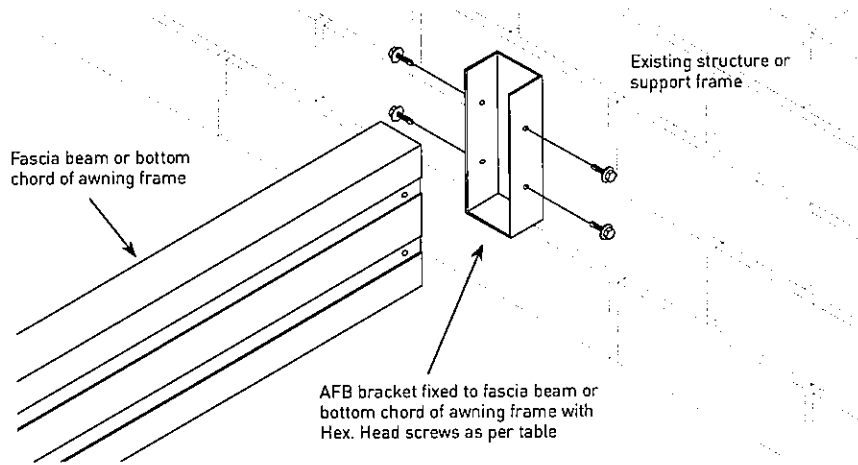
**Connection 14**  
Purlin Connection



Colorbeam Type	AFB - Purlin		AFB - Top Chord	
	Screw Size	# of Screws	Screw Size	# of Screws
CB100-12	No.12	6	No.12	6
CB150-16	No.12	6	No.12	6
CB200-20	No.12	8	No.12	8



**Connection 15**  
**Fascia Beam End Connection to Existing Structure**



**Important:**

The project engineer or designer will be responsible for the design and approval of the connection of the AFB bracket to existing structure or support, the support frame and structural adequacy of the existing structure.

Colorbeam Type	AFB – Fascia Beam	
	Screw Size	# of Screws
CB100-12	No.10	6
CB150-16	No.12	6
CB200-20	No.12	8