



AUTO DESIGNED CONNECTIONS

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SHEET NO.	1	OF	3
PREPARED BY:	JGM	DATE:	11/09/2009
CHECKED BY:	ABS	DATE:	11/09/2009
SUBJECT:	SHEAR CONN. CODES		

Shear Connection (SC) Type Codes

1. **SC01-11** – W-Shape Beam to W-Shape Girder Clip Angle Connection (Bolted-Bolted)
2. **SC01-12** – W-Shape Beam to W-Shape Girder Clip Angle Connection (Welded-Bolted)
3. **SC01-13** – W-Shape Beam to W-Shape Girder Clip Angle Connection (Bolted-Welded)
4. **SC01-14** – W-Shape Beam to W-Shape Girder Clip Angle Connection (Welded-Welded)
5. **SC01-21** – W-Shape Beam to W-Shape Girder Single Angle Connection (Bolted-Bolted)
6. **SC01-22** – W-Shape Beam to W-Shape Girder Single Angle Connection (Welded-Bolted)
7. **SC01-23** – W-Shape Beam to W-Shape Girder Single Angle Connection (Bolted-Welded)
8. **SC01-24** – W-Shape Beam to W-Shape Girder Single Angle Connection (Welded-Welded)
9. **SC01-31** – W-Shape Beam to W-Shape Girder Shear Plate Connection
10. **SC01-32** – W-Shape Beam to W-Shape Girder Shear Plate Connection (Full-Depth Extended Shear Plate)
11. **SC01-33** – W-Shape Beam to W-Shape Girder Skewed Shear Plate Connection
12. **SC01-34** – W-Shape Beam to W-Shape Girder Skewed Shear Plate Connection (Full-Depth Extended Shear Plate)
13. **SC01-41** – W-Shape Beam to W-Shape Girder End Plate Connection
14. **SC01-42** – W-Shape Beam to W-Shape Girder End Plate Connection (Full-Depth End Plate)
15. **SC01-43** – W-Shape Beam to W-Shape Girder Skewed End Plate Connection
16. **SC01-44** – W-Shape Beam to W-Shape Girder Skewed End Plate Connection (Full-Depth End Plate)
17. **SC01-50** – W-Shape Beam Over W-Shape Girder Connection
18. **SC01-60** – W-Shape Beam Under W-Shape Girder Connection
19. **SC02-11** – W-Shape Beam to W-Shape Column Flange Clip Angle Connection (Bolted-Bolted)
20. **SC02-12** – W-Shape Beam to W-Shape Column Flange Clip Angle Connection (Welded-Bolted)
21. **SC02-13** – W-Shape Beam to W-Shape Column Flange Clip Angle (Bolted-Welded)
22. **SC02-14** – W-Shape Beam to W-Shape Column Flange Clip Angle (Welded-Welded)
23. **SC02-21** – W-Shape Beam to W-Shape Column Flange Single Angle Connection (Bolted-Bolted)
24. **SC02-22** – W-Shape Beam to W-Shape Column Flange Single Angle Connection (Welded-Bolted)
25. **SC02-23** – W-Shape Beam to W-Shape Column Flange Single Angle Connection (Bolted-Welded)
26. **SC02-24** – W-Shape Beam to W-Shape Column Flange Single Angle Connection (Welded-Welded)
27. **SC02-31** – W-Shape Beam to W-Shape Column Flange Shear Plate Connection
28. **SC02-33** – W-Shape Beam to W-Shape Column Flange Skewed Shear Plate Connection
29. **SC02-41** – W-Shape Beam to W-Shape Column Flange End Plate Connection
30. **SC02-43** – W-Shape Beam to W-Shape Column Flange Skewed End Plate Connection
31. **SC02-50** – W-Shape Beam Over W-Shape Column Flange Connection
32. **SC03-11** – W-Shape Beam to W-Shape Column Web Clip Angle Connection (Bolted-Bolted)
33. **SC03-12** – W-Shape Beam to W-Shape Column Web Clip Angle Connection (Welded-Bolted)
34. **SC03-13** – W-Shape Beam to W-Shape Column Web Clip Angle Connection (Bolted-Welded)
35. **SC03-14** – W-Shape Beam to W-Shape Column Web Clip Angle Connection (Welded-Welded)
36. **SC03-21** – W-Shape Beam to W-Shape Column Web Single Angle Connection (Bolted-Bolted)
37. **SC03-22** – W-Shape Beam to W-Shape Column Web Single Angle Connection (Welded-Bolted)
38. **SC03-23** – W-Shape Beam to W-Shape Column Web Single Angle Connection (Bolted-Welded)
39. **SC03-24** – W-Shape Beam to W-Shape Column Web Single Angle Connection (Welded-Welded)
40. **SC03-31** – W-Shape Beam to W-Shape Column Web Shear Plate Connection
41. **SC03-33** – W-Shape Beam to W-Shape Column Web Skewed Shear Plate Connection
42. **SC03-41** – W-Shape Beam to W-Shape Column Web End Plate Connection
43. **SC03-43** – W-Shape Beam to W-Shape Column Web Skewed End Plate Connection
44. **SC03-50** – W-Shape Beam Over W-Shape Column Web Connection
45. **SC05-11** – W-Shape Beam to Rectangular HSS Column Clip Angle Connection (Bolted-Bolted)
46. **SC05-12** – W-Shape Beam to Rectangular HSS Column Clip Angle Connection (Welded-Bolted)
47. **SC05-13** – W-Shape Beam to Rectangular HSS Column Clip Angle Connection (Bolted-Welded)
48. **SC05-14** – W-Shape Beam to Rectangular HSS Column Clip Angle Connection (Welded-Welded)
49. **SC05-21** – W-Shape Beam to Rectangular HSS Column Single Angle Connection (Bolted-Bolted)
50. **SC05-22** – W-Shape Beam to Rectangular HSS Column Single Angle Connection (Welded-Bolted)
51. **SC05-23** – W-Shape Beam to Rectangular HSS Column Single Angle Connection (Bolted-Welded)
52. **SC05-24** – W-Shape Beam to Rectangular HSS Column Single Angle Connection (Welded-Welded)
53. **SC05-31** – W-Shape Beam to Rectangular HSS Column Shear Plate Connection
54. **SC05-33** – W-Shape Beam to Rectangular HSS Column Skewed Shear Plate Connection
55. **SC05-41** – W-Shape Beam to Rectangular HSS Column End Plate Connection
56. **SC05-43** – W-Shape Beam to Rectangular HSS Column Skewed End Plate Connection
57. **SC05-50** – W-Shape Beam Over Rectangular HSS Column Connection
58. **SC06-31** – W-Shape Beam to Round HSS / Pipe Column Shear Plate Connection
59. **SC06-50** – W-Shape Beam Over Round HSS / Pipe Column Connection
60. **SC07-11** – W-Shape Beam to Embedded Plate Clip Angle Connection (Bolted-Bolted)
61. **SC07-12** – W-Shape Beam to Embedded Plate Clip Angle Connection (Welded-Bolted)
62. **SC07-13** – W-Shape Beam to Embedded Plate Clip Angle Connection (Bolted-Welded)
63. **SC07-14** – W-Shape Beam to Embedded Plate Clip Angle Connection (Welded-Welded)
64. **SC07-21** – W-Shape Beam to Embedded Plate Single Angle Connection (Bolted-Bolted)
65. **SC07-22** – W-Shape Beam to Embedded Plate Single Angle Connection (Welded-Bolted)
66. **SC07-23** – W-Shape Beam to Embedded Plate Single Angle Connection (Bolted-Welded)
67. **SC07-24** – W-Shape Beam to Embedded Plate Single Angle Connection (Welded-Welded)
68. **SC07-31** – W-Shape Beam to Embedded Plate Shear Plate Connection
69. **SC07-33** – W-Shape Beam to Embedded Plate Skewed Shear Plate Connection
70. **SC07-41** – W-Shape Beam to Embedded Plate End Plate Connection
71. **SC07-43** – W-Shape Beam to Embedded Plate Skewed End Plate Connection



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72. **SC08-11** – W-Shape Beam to Rectangular HSS Girder Clip Angle Connection (Bolted-Bolted)
73. **SC08-12** – W-Shape Beam to Rectangular HSS Girder Clip Angle Connection (Welded-Bolted)
74. **SC08-13** – W-Shape Beam to Rectangular HSS Girder Clip Angle Connection (Bolted-Welded)
75. **SC08-14** – W-Shape Beam to Rectangular HSS Girder Clip Angle Connection (Welded-Welded)
76. **SC08-21** – W-Shape Beam to Rectangular HSS Girder Single Angle Connection (Bolted-Bolted)
77. **SC08-22** – W-Shape Beam to Rectangular HSS Girder Single Angle Connection (Welded-Bolted)
78. **SC08-23** – W-Shape Beam to Rectangular HSS Girder Single Angle Connection (Bolted-Welded)
79. **SC08-24** – W-Shape Beam to Rectangular HSS Girder Single Angle Connection (Welded-Welded)
80. **SC08-31** – W-Shape Beam to Rectangular HSS Girder Shear Plate Connection
81. **SC08-33** – W-Shape Beam to Rectangular HSS Girder Skewed Shear Plate Connection
82. **SC08-41** – W-Shape Beam to Rectangular HSS Girder End Plate Connection
83. **SC08-43** – W-Shape Beam to Rectangular HSS Girder Skewed End Plate Connection
84. **SC11-11** – Channel Beam to W-Shape Girder Clip Angle Connection (Bolted-Bolted)
85. **SC11-12** – Channel Beam to W-Shape Girder Clip Angle Connection (Welded-Bolted)
86. **SC11-13** – Channel Beam to W-Shape Girder Clip Angle Connection (Bolted-Welded)
87. **SC11-14** – Channel Beam to W-Shape Girder Clip Angle Connection (Welded-Welded)
88. **SC11-21** – Channel Beam to W-Shape Girder Single Angle Connection (Bolted-Bolted)
89. **SC11-22** – Channel Beam to W-Shape Girder Single Angle Connection (Welded-Bolted)
90. **SC11-23** – Channel Beam to W-Shape Girder Single Angle Connection (Bolted-Welded)
91. **SC11-24** – Channel Beam to W-Shape Girder Single Angle Connection (Welded-Welded)
92. **SC11-31** – Channel Beam to W-Shape Girder Shear Plate Connection
93. **SC11-32** – Channel Beam to W-Shape Girder Shear Plate Connection (Full-Depth Extended Shear Plate)
94. **SC11-33** – Channel Beam to W-Shape Girder Skewed Shear Plate Connection
95. **SC11-34** – Channel Beam to W-Shape Girder Skewed Shear Plate Connection (Full-Depth Extended Shear Plate)
96. **SC11-41** – Channel Beam to W-Shape Girder End Plate Connection
97. **SC11-42** – Channel Beam to W-Shape Girder End Plate Connection (Full-Depth End Plate)
98. **SC11-43** – Channel Beam to W-Shape Girder Skewed End Plate Connection (Full-Depth End Plate)
99. **SC11-50** – Channel Beam Over W-Shape Girder Connection
100. **SC12-11** – Channel Beam to W-Shape Column Flange Clip Angle Connection (Bolted-Bolted)
101. **SC12-12** – Channel Beam to W-Shape Column Flange Clip Angle Connection (Welded-Bolted)
102. **SC12-13** – Channel Beam to W-Shape Column Flange Clip Angle Connection (Bolted-Welded)
103. **SC12-14** – Channel Beam to W-Shape Column Flange Clip Angle Connection (Welded-Welded)
104. **SC12-21** – Channel Beam to W-Shape Column Flange Single Angle Connection (Bolted-Bolted)
105. **SC12-22** – Channel Beam to W-Shape Column Flange Single Angle Connection (Welded-Bolted)
106. **SC12-23** – Channel Beam to W-Shape Column Flange Single Angle Connection (Bolted-Welded)
107. **SC12-24** – Channel Beam to W-Shape Column Flange Single Angle Connection (Welded-Welded)
108. **SC12-31** – Channel Beam to W-Shape Column Flange Shear Plate Connection
109. **SC12-33** – Channel Beam to W-Shape Column Flange Skewed Shear Plate Connection
110. **SC12-41** – Channel Beam to W-Shape Column Flange End Plate Connection
111. **SC12-43** – Channel Beam to W-Shape Column Flange Skewed End Plate Connection
112. **SC13-11** – Channel Beam to W-Shape Column Web Clip Angle Connection (Bolted-Bolted)
113. **SC13-12** – Channel Beam to W-Shape Column Web Clip Angle Connection (Welded-Bolted)
114. **SC13-13** – Channel Beam to W-Shape Column Web Clip Angle Connection (Bolted-Welded)
115. **SC13-14** – Channel Beam to W-Shape Column Web Clip Angle Connection (Welded-Welded)
116. **SC13-21** – Channel Beam to W-Shape Column Web Single Angle Connection (Bolted-Bolted)
117. **SC13-22** – Channel Beam to W-Shape Column Web Single Angle Connection (Welded-Bolted)
118. **SC13-23** – Channel Beam to W-Shape Column Web Single Angle Connection (Bolted-Welded)
119. **SC13-24** – Channel Beam to W-Shape Column Web Single Angle Connection (Welded-Welded)
120. **SC13-31** – Channel Beam to W-Shape Column Web Shear Plate Connection
121. **SC13-33** – Channel Beam to W-Shape Column Web Skewed Shear Plate Connection
122. **SC13-41** – Channel Beam to W-Shape Column Web End Plate Connection
123. **SC13-43** – Channel Beam to W-Shape Column Web Skewed End Plate Connection
124. **SC14-11** – Channel Beam to Channel Girder Clip Angle Connection (Bolted-Bolted)
125. **SC14-12** – Channel Beam to Channel Girder Clip Angle Connection (Welded-Bolted)
126. **SC14-13** – Channel Beam to Channel Girder Clip Angle Connection (Bolted-Welded)
127. **SC14-14** – Channel Beam to Channel Girder Clip Angle Connection (Welded-Welded)
128. **SC14-21** – Channel Beam to Channel Girder Single Angle Connection (Bolted-Bolted)
129. **SC14-22** – Channel Beam to Channel Girder Single Angle Connection (Welded-Bolted)
130. **SC14-23** – Channel Beam to Channel Girder Single Angle Connection (Bolted-Welded)
131. **SC14-24** – Channel Beam to Channel Girder Single Angle Connection (Welded-Welded)
132. **SC14-31** – Channel Beam to Channel Girder Shear Plate Connection
133. **SC14-33** – Channel Beam to Channel Girder Skewed Shear Plate Connection
134. **SC14-41** – Channel Beam to Channel Girder End Plate Connection
135. **SC14-43** – Channel Beam to Channel Girder Skewed End Plate Connection
136. **SC15-11** – Channel Beam to Rectangular HSS Column Clip Angle Connection (Bolted-Bolted)
137. **SC15-12** – Channel Beam to Rectangular HSS Column Clip Angle Connection (Welded-Bolted)
138. **SC15-13** – Channel Beam to Rectangular HSS Column Clip Angle Connection (Bolted-Welded)
139. **SC15-14** – Channel Beam to Rectangular HSS Column Clip Angle Connection (Welded-Welded)
140. **SC15-21** – Channel Beam to Rectangular HSS Column Single Angle Connection (Bolted-Bolted)
141. **SC15-22** – Channel Beam to Rectangular HSS Column Single Angle Connection (Welded-Bolted)
142. **SC15-23** – Channel Beam to Rectangular HSS Column Single Angle Connection (Bolted-Welded)
143. **SC15-24** – Channel Beam to Rectangular HSS Column Single Angle Connection (Welded-Welded)



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144. **SC15-31** – Channel Beam to Rectangular HSS Column Shear Plate Connection
145. **SC15-33** – Channel Beam to Rectangular HSS Column Skewed Shear Plate Connection
146. **SC15-41** – Channel Beam to Rectangular HSS Column End Plate Connection
147. **SC15-43** – Channel Beam to Rectangular HSS Column Skewed End Plate Connection
148. **SC16-31** – Channel Beam to Round HSS / Pipe Column Shear Plate Connection
149. **SC17-11** – Channel Beam to Embedded Plate Clip Angle Connection (Bolted-Bolted)
150. **SC17-31** – Channel Beam to Embedded Plate Shear Plate Connection
151. **SC18-13** – Channel Beam to Rectangular HSS Girder Clip Angle Connection (Bolted-Welded)
152. **SC18-23** – Channel Beam to Rectangular HSS Girder Single Angle Connection (Bolted-Welded)
153. **SC18-31** – Channel Beam to Rectangular HSS Girder Shear Plate Connection
154. **SC21-11** – Rectangular HSS Beam to W-Shape Girder Clip Angle Connection (Bolted-Bolted)
155. **SC21-31** – Rectangular HSS Beam to W-Shape Girder Shear Plate Connection
156. **SC22-11** – Rectangular HSS Beam to W-Shape Column Flange Clip Angle Connection (Bolted-Bolted)
157. **SC22-31** – Rectangular HSS Beam to W-Shape Column Flange Shear Plate Connection
158. **SC23-31** – Rectangular HSS Beam to W-Shape Column Web Shear Plate Connection
159. **SC31-12** – S-Shape Beam to W-Shape Girder Clip Angle Connection (Welded-Bolted)