CONTENTS

	P	age		F	Page
Lis	st of figures	iv	10.8	DESIGN CHECK NO. 8—Beam	
List of tables iv				rotation check	20
Preface v		V	10.9	DESIGN CHECK NO. 9—Local	
About the author vi				stability of coped supported	
About the contributing author and editor vi				member	21
Acknowledgements vii			10.10	DESIGN CHECK NO. 10—Local	
	•			capacity of supporting member	22
1	CONCEPT OF DESIGN GUIDES	1	10.10	.1 Connection to column flange	
	1.1 Background	1		in line with web	22
			10.10	.2 Connection to web of column	
2	DESCRIPTION OF CONNECTION	2		from one side	22
_	TYPICAL PETALLING OF CONNECTION		10.10	.3 Connection to web of column	
3	TYPICAL DETAILING OF CONNECTION	1 3		from both sides	23
4	DETAILING CONSIDERATIONS	4	10.10	.4 Connection to wall of CHS/RHS	
4	DETAILING CONSIDERATIONS	4		column	24
5	COMPLIANCE WITH AS 4100		10.10	.5 Connection to web of supporting	
•	REQUIREMENTS FOR CONNECTIONS	5		beam from one side	24
	THE CONTENT OF THE CO	0	10.10	.6 Connection to web of supporting	a
6	BACKGROUND INFORMATION	6		beam from both sides	25
7	BASIS OF DESIGN MODEL	7	11 OTHE	ER DESIGN CONSIDERATIONS	26
0	SHORT AND LONG WEB SIDE PLATES	. 0	12 DEEE	RENCES	27
8	SHORT AND LONG WEB SIDE PLATES	9	12 KEFE	RENCES	21
9	CONNECTION GEOMETRY	. 10	13 DESI	GN EXAMPLES	28
				Design example No. 1—	
10	RECOMMENDED DESIGN MODEL—			Connection capacity with double	
	SUMMARY OF CHECKS	. 11		column of bolts and uncoped	
	10.1 DESIGN CHECK NO. 1—			member	28
	Detailing limitations	12	13.2	Design example No. 2—	
	10.2 DESIGN CHECK NO. 2—			Connection capacity with single	
	Design capacity of weld to support	ing		column of bolts and coped	
	member	13		member	31
	10.3 DESIGN CHECK NO. 3—				
	Design capacity of bolt group	14	14 DESI	GN CAPACITY TABLES	34
	10.3.1 Alternative 'A'—Single column		14.1	Configuration A—	
	of bolts	14		Single line of bolts	34
	10.3.2 Alternative 'B'—Double column		14.2	Configuration B—	
	of bolts	15		Single line of bolts	37
	10.4 DESIGN CHECK NO. 4—Design		14.3	Configuration C—	
	capacity of web side plate			Double line of bolts	40
	(Shear, bending, block shear)	16			
	10.5 DESIGN CHECK NO. 5—Design		15 EXTE	NDED CONFIGURATION	43
	capacity of supported member		ADDENIE	NOTO	
	(Shear—Uncoped or coped)	17	APPEND		40
	10.6 DESIGN CHECK NO. 6—Design		A	Limcon software	46
	capacity of supported member		В	ASI Design Guide 3	EO
	(Block shear—Coped section)	18		comment form	53
	10.7 DESIGN CHECK NO. 7—Design				
	capacity of supported member				
	(Bending of coped section)	19			





LIST OF FIGURES

	Page		Page					
Figure 1	Typical web side plate connections 2	Figure 15	Local stability parameters— Coped supported member21					
Figure 2	Single line of bolts to beam web, beam-to-column or beam-to-beam connections uncoped, single and	Figure 16	Supporting column local capacity—Connection in line with web22					
Figure 3	double (not shown) web coped beams	Figure 17	Supporting column local capacity—Connection to web from one side22					
	beam-to-column or beam-to-beam connections uncoped, single (not shown) and double web coped	Figure 18	Supporting column local capacity—Connection to web from both sides23					
Figure 4	Coping beam flange(s) for column web connection 4		Supporting RHS/CHS column local capacity24					
Figure 5	Coping beam bottom flange to avoid column 'springing' 4	Figure 20	Supporting beam local capacity—Connection to web from one side24					
Figure 6 Figure 7	Examples of 'flexible' and 'stiff' support conditions	Figure 21	Supporting beam local capacity—Connection to web from both sides25					
Figure 8	eccentricity	Figure 22	Double column of bolts and uncoped member28					
Figure 9	Short web side plate—Alternative infill plate detail	Figure 23	Single column of bolts and coped member31					
_	Connection geometry 10 Minimum clearance between	Figure 24	Geometry Configuration A—Single line of bolts34					
Figure 12	support and member 12 Block shear capacity areas—	-	Geometry Configuration B—Single line of bolts37					
Figure 13	Web side plate 16 Block shear capacity parameters—		Geometry Configuration C— Double line of bolts40					
Figure 14	Supported member	Figure 27	Examples of extended web side plate connections45					
LIST OF TABLES								
	Page		Page					
Table 1	Component design actions for support type 7	Table 5	Web side plate design capacity table—Config. B, single line of					
Table 2	Web side plate design capacity table—Config. A, single line of bolts/8 mm component/6 mm FW's, Member ≥ 300 mm deep 35	Table 6	bolts/10 mm component/8 mm FW's, Member ≤ 250 mm deep39 Web side plate design capacity table—Config. C, double line of					
Table 3	Web side plate design capacity table—Config. A, single line of bolts/8 mm component/6 mm	Table 7	bolts/10 mm component/8 mm FW's, Member ≥ 300 mm deep41 Web side plate design capacity					
Table 4	FW's, Member ≤ 250 mm deep 36 Web side plate design capacity table—Config. B, single line of bolts/10 mm component/8 mm FW's, Member ≥ 300 mm deep 38		table—Config. C, double line of bolts/10 mm component/8 mm FW's, Member ≤ 250 mm deep42					



