CONTENTS

	F	Page	Pag	је
List of figures		iv	PART C STIFFENED ANGLE SEAT	45
Preface		V	C1 Description of connection	45
About the author		vi	C2 Typical detailing of connection	46
About the contributing author and editor		vi	C3 Detailing considerations	47
Acknowledgements		vii	C4 Compliance with AS 4100	
			requirements	48
	PT OF DESIGN GUIDES		C5 Background information	49
1.1	Background	1	C6 Basis of design model	50
	OTIFE OF AT COMMENTION	0	C7 Connection geometry	51
	STIFF SEAT CONNECTION		C8 Recommended design model—	
A1	Typical details	2	Bolted angle seat	53
A2	Compliance with AS 4100	4	C9 Recommended design model—	
۸.0	requirements	4	Welded angle seat	57
A3	Recommended design model—	7	C10 Recommended design model—	
۸.4	Unstiffened I and [section beams	7		60
A4	Recommended design model—		C11 Other design considerations	66
	Unstiffened RHS and SHS section		C12 References	67
۸.	beams	9	C13 Design example	86
A5	Recommended design model—	4.4	C13.1 Design example No. 1—	
۸.0	Stiffened I section beams	11	Welded tee seat to I-section	
A6	Design examples	14	web from one side	86
A6.1	Design example No. 1—Unstiffene			
46.2	end supported beam	14		70
A0.2	Design example No. 2—Unstiffene		· • • • • • • • • • • • • • • • • • • •	70
A6 2	internal supported beam	15	D2 Typical detailing of connection	
A0.3	Design example No. 3—Stiffened end supported beam	17	,	71
A7	References	17	S .	72
Ai	References	19	D4 Compliance with AS 4100	
PART B	UNSTIFFENED ANGLE SEAT	20	•	73
B1	Description of connection	20	•	74 70
B2	Typical detailing of connection	21	<u> </u>	76 73
B3	Detailing considerations	22	•	77
B4	Compliance with AS 4100			80
	requirements	23		81
B5	Background information	24	• •	82
В6	Basis of design model	26	D10.1 Design example No. 1—	റ
B7	Connection geometry	29	Bearing pad to I-section flange	82
В8	Recommended design model—		APPENDICES	
	Welded angle seat	30		84
В9	Recommended design model—		B ASI Design Guide 6	٠.
	Bolted angle seat	34		95
B10	Other design considerations	38	Comment form	,,
B11	References	39		
B12	Design examples	40		
B12.		-		
	Welded seat	40		
B12.2		-		
	Bolted seat	42		





LIST OF FIGURES

	Page		Pa	age
Figure A1 Figure A2	Unstiffened beam at supports 2 Stiffened beam at supports 3	Figure C3	Stiffened angle seat details for variations in beam depth with top fixed restraint cleat	47
Figure A3	Bearing action dispersion into I, [, RHS and SHS webs 5	Figure C4	Yield lines in column web from welded tee seat connection	
Figure A4 Figure A5	Stiff bearing length on flange 6 Unstiffened I and [beam	Figure C5	Stiff bearing length of stiffened angle seat	
Figure A6	geometry 7 Unstiffened RHS and SHS beam	Figure C6 Figure C7	Bolted stiffened angle seat Welded stiffened angle seat	
Figure A7	geometry 9 Stiffened I section beam	Figure C8	Welded stiffened tee seat	
Figure A8	geometry 11 Load bearing stiffener	Figure C9	Supporting column with stiffened bolted angle seat to web	56
Figure A9	geometry	Figure C10	Supporting column with stiffened welded angle seat	
	Unstiffened internal supported beam 15	Figure C11	to web Supporting I-section column with welded tee seat to flange	
Figure A11 Figure B1	Stiffened end supported beam 17 Typical examples of unstiffened angle seat connections 20	Figure C12	Supporting I-section column with welded tee seat to web from both sides	
Figure B2 Figure B3	Typical bolted and welded unstiffened angle seat detailing 21 Unstiffened angle seat details	Figure C13	Supporting I-section column with welded tee seat to web	
rigure bo	for variation in beam depth with top fixed restraint cleat 22	Figure C14	from one side Supporting RHS/SHS member with welded tee seat to wall	
Figure B4	Bearing width of unstiffened angle seat	Figure C15	Welded tee seat connection to supporting I-section	.00
Figure B5	Eccentricity of load and critical section in unstiffened angle seat 27	Figure D1	column web	.68
Figure B6	Bolted unstiffened angle seat 29	. 194.0 2 1	pad connections	.70
Figure B7	Welded unstiffened angle seat 29	Figure D2	Alternative 'A'	.71
Figure B8	Supporting column with unstiffened welded angle seat to web	-	Alternative 'B'	
Figure B9	Supporting column with unstiffened bolted angle seat	Figure D5 Figure D6	Assumed shear stress distribution	.74
Figure B10	to web	Figure D7	reaction on the bearing pad Connection geometry	
Figure B11	Bolted seat connection both sides of supporting column web . 42	Figure D8	Supporting column with bearing pad connection to web	
Figure C1	Typical examples of stiffened angle seat connections	Figure D9	Bearing pad connection to I-section flange	.82
Figure C2	Typical bolted and welded stiffened angle seat and welded tee seat detailing			



