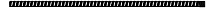
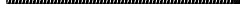
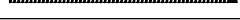
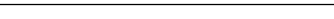


PSA FORGE BAR STARTER BARS	
FBSB12540 Length = 540 mm	
FBSB16700 Length = 700 mm	
FBSB20800 Length = 800 mm	
FBSB201000 Length = 1000 mm	
FBSB241000 Length = 1000 mm	
FBSB241200 Length = 1200 mm	
FBSB281170 Length = 1170 mm	
FBSB281400 Length = 1400 mm	
FBSB321330 Length = 1330 mm	
FBSB321600 Length = 1600 mm	
FBSB361600 Length = 1600 mm	
FBSB401800 Length = 1800 mm	
- FORGE BAR STARTER BARS COME WITH A TYPE A THREAD. - FORGE BAR STARTER BARS ARE DELIVERED INCLUDING A THREAD PROTECTION CAP. - FORGE BAR STARTER BARS CAN ALSO BE ORDERED WITH A COUPLER INSTALLED. PLEASE ADD "-A" TO ITEM NUMBER.	

PSA FORGE BAR COUPLERS					
PART No.	FORGE BAR COUPLERS	PART No.	FORGE BAR LOCK NUTS	PART No.	FORGE BAR COUPLERS WITH NAILING PLATE
FBC12		FBLN12		FBC12+FBNP12	
FBC16		FBLN16		FBC16+FBNP16	
FBC20		FBLN20		FBC20+FBNP20	
FBC24		FBLN24		FBC24+FBNP24	
FBC28		FBLN28		FBC28+FBNP28	
FBC32		FBLN32		FBC32+FBNP32	
FBC36		FBLN36		FBC36+FBNP36	
FBC40		FBLN40		FBC40+FBNP40	

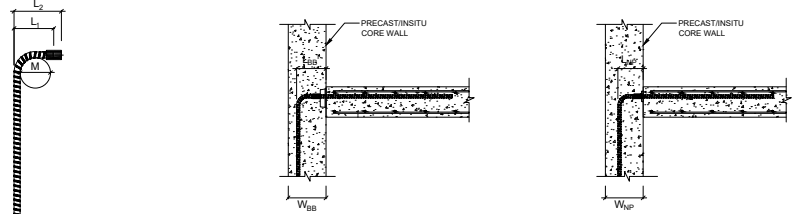
PSA FORGE BAR COUPLER CONNECTION - TYPE A

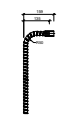
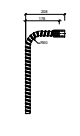
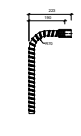
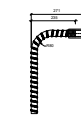


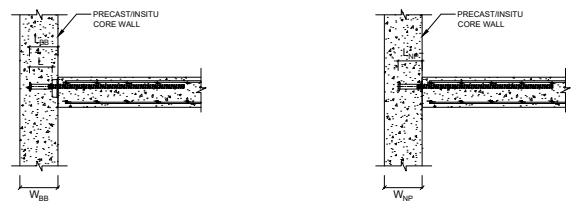
PSA FORGE BAR COUPLER CONNECTION - TYPE C



PSA FORGE BAR THREAD SPECIFICATIONS					
PART No.	NOMINAL DIAMETER (mm)	NOMINAL THREAD (mm)	TYPE A THREAD LENGTH (mm)	TYPE C1 THREAD LENGTH (mm)	TYPE C2 THREAD LENGTH (mm)
FB12	12	M14x2.0	15	27	42
FB16	16	M20x2.5	20	32	52
FB20	20	M24x3.0	24	36	60
FB24	24	M30x3.5	30	45	75
FB28	28	M33x3.5	33	48	81
FB32	32	M36x4.0	36	51	87
FB36	36	M42x4.0	42	62	104
FB40	40	M45x4.0	45	65	110

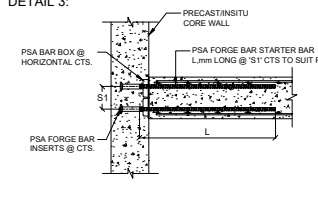
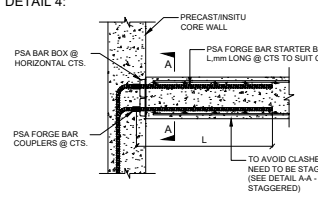
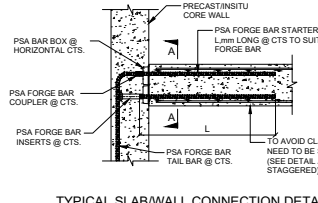
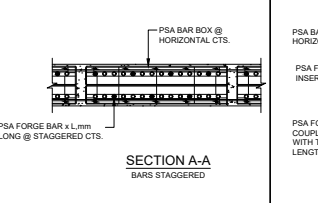
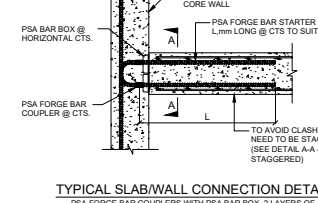
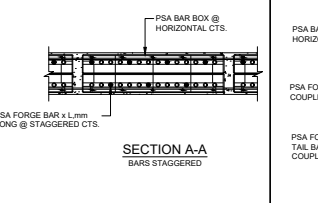
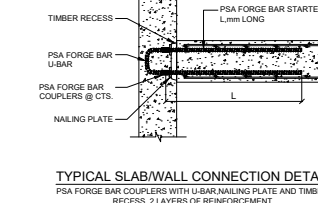
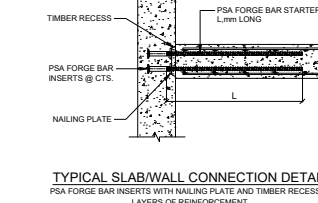
PSA FORGE BAR INSTALLATION LIMITS WITH BENT BAR								
								
PART No.	NOMINAL DIAMETER (mm)	MANDREL DIAMETER M (mm)	MIN BAR LENGTH L1 (mm)	MIN BAR LENGTH WITH COUPLER L2 (mm)	TOTAL INSTALLATION DEPTH INC. BAR BOX LBB (mm)	MIN WALL THICKNESS BAR BOX INSTALLATION WBB (mm)	TOTAL INSTALLATION DEPTH INC. NAILING PLATE LUP (mm)	MIN WALL THICKNESS NAILING PLATE INSTALLATION* WUP (mm)
FB12	12	60	85	100	130	165	108	143
FB16	16	80	105	125	155	190	133	168
FB20	20	100	135	159	189	224	167	202
FB24	24	120	178	208	238	273	216	251
FB28	28	140	190	223	253	288	231	266
FB32	32	160	235	271	301	336	279	314

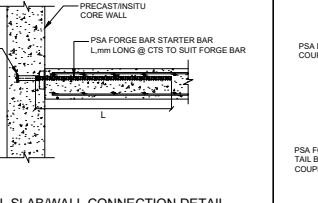
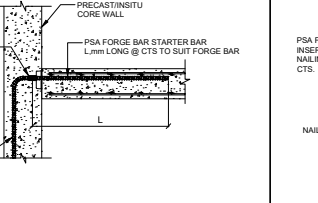
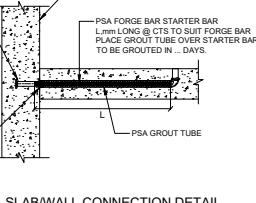
MINIMUM DIMENSIONS FOR COGGED PSA FORGE BAR					
PSAFB12/FBC12	PSAFB16/FBC16	PSAFB20/FBC20	PSAFB24/FBC24	PSAFB28/FBC28	PSAFB32/FBC32
					
SD BEND 60mm MANDREL	SD BEND 80mm MANDREL	SD BEND 100mm MANDREL	SD BEND 120mm MANDREL	SD BEND 140mm MANDREL	SD BEND 160mm MANDREL

PSA FORGE BAR INSTALLATION WITH FBI INSERTS						
						
PART No.	NOMINAL DIAMETER (mm)	BODY LENGTH L (mm)	TOTAL INSTALLATION DEPTH INC. BAR BOX LBB (mm)	MIN WALL THICKNESS BAR BOX INSTALLATION WBB (mm)	TOTAL INSTALLATION DEPTH INC. NAILING PLATE LUP (mm)	MIN WALL THICKNESS NAILING PLATE INSTALLATION WUP (mm)
FB112-100	12	100	130	160	108	140
FB116-120	16	120	150	180	128	160
FB116-160	16	160	190	220	168	200
FB120-150	20	150	180	210	158	190
FB120-190	20	190	220	250	198	230

COMMENTS
1- FOR FURTHER INFORMATION ON THE PSA FORGE BAR SYSTEM PLEASE REFER TO THE PSA FORGE BAR DESIGN GUIDE.
2 - MINIMUM SLAB THICKNESS FOR CONNECTIONS WITH 2 LAYERS OF REINFORCEMENT UTILISING THE PSA BAR BOX IS 220MM (INCLUDING A SITE TOLERANCE OF +/- 10MM). SMALLER SLAB THICKNESSES CAN BE ACHIEVED USING CUSTOM TIMBER RECESS.
3 - PSA FORGE BAR IS AVAILABLE IN A VARIETY OF STANDARD STARTER BAR LENGTHS, AS DETAILED IN THIS DRAWING. FOR FULL-LENGTH BARS OR CUSTOM LENGTHS, PLEASE CONTACT PSA DIRECTLY.
4 - ALL PSA FORGE BAR COMPONENTS SHALL COMPLY WITH AS/NZS 4671 AND AS 3600 AND BE SUPPLIED USING ACRS CERTIFIED REINFORCEMENT BAR.
5 - TYPE A CONNECTIONS REQUIRE FREE ROTATION OF THE BAR DURING INSTALLATION. WHERE BAR ROTATION IS NOT POSSIBLE, TYPE C CONNECTIONS SHALL BE USED.
6 - BARS SHALL BE SCREWED FULLY INTO COUPLERS OR INSERTS SUCH THAT NO MORE THAN ONE THREAD IS VISIBLE AFTER TIGHTENING. (TYPE C EXCLUDED)

PSA FORGE BAR INSERT			
FORGE BAR INSERTS		FORGE BAR INSERTS WITH NAILING PLATE	
PART No.	FORGE BAR INSERTS	PART No.	FORGE BAR INSERTS WITH NAILING PLATE
FB112-100		FB112-100+FBNP12	
FB116-120		FB116-120+FBNP16	
FB116-160		FB116-160+FBNP16	
FB120-150		FB120-150+FBNP20	
FB120-190		FB120-190+FBNP20	

STANDARD DETAILS - MOMENT CONNECTION			
DETAIL 3:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR INSERT WITH PSA BAR BOX, 2 LAYERS OF REINFORCEMENT		DETAIL 4:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR COUPLERS WITH PSA BAR BOX, 2 LAYERS OF REINFORCEMENT	
DETAIL 5:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR COUPLER AND FORGE BAR INSERT WITH PSA BAR BOX, 2 LAYERS OF REINFORCEMENT		DETAIL 6:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR INSERT AND FORGE BAR COUPLER WITH PSA BAR BOX, 2 LAYERS OF REINFORCEMENT	
DETAIL 7:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR COUPLERS WITH PSA BAR BOX, 2 LAYERS OF REINFORCEMENT		DETAIL 8:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR INSERT WITH PSA BAR BOX, 2 LAYERS OF REINFORCEMENT	
DETAIL 9:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR COUPLERS WITH U-BAR, NAILING PLATE AND TIMBER RECESS, 2 LAYERS OF REINFORCEMENT		DETAIL 10:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR INSERTS WITH NAILING PLATE AND TIMBER RECESS, 2 LAYERS OF REINFORCEMENT	

STANDARD DETAILS - 1 LAYER OF REINFORCEMENT		
DETAIL 1:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR INSERT WITH PSA BAR BOX, 1 LAYER OF REINFORCEMENT	DETAIL 2:  TYPICAL SLAB/WALL CONNECTION DETAIL PSA FORGE BAR COUPLER WITH PSA BAR BOX, 1 LAYER OF REINFORCEMENT	DETAIL 11:  TYPICAL SLAB/WALL CONNECTION DETAIL FOR TEMPORARY MOVEMENT JOINT PSA FBI INSERT WITH NAILING PLATE, 1 LAYER OF REINFORCEMENT

DRAWN	APPROVED	REV.	DATE
N.M.	A.B.	A	31.08.2025
N.M.	M.H.	B	29.04.2026

PRODUCT RANGE:

PSA FORGE BAR

DESIGN RECOMMENDATIONS AND
STANDARD DETAILS - PDF

SHEET No:

S001

REVISION:

B

SCALE:

1:40@A3

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