Barrel Middle Foot - RPC 1	**B1F.1**	**B1F.2**	**B1F.3**	**B1F.4**	**B1F.5**	**B1F.6**	**Total**
Chamber # (in z)	1		2		3		**Standard**
TOWER #	1		2		3		
# Chambers in sector 2							
# Chambers in sector 4							
# Chambers in sector 6							
# Chambers in sector 8							
# Chambers in sector 10							
# Chambers in sector 12	2		2		2		
# Chambers in sector 14	2		2		2		
# Chambers in sector 16							
# of sectors	2		2		2		
# Chambers	4		4		4		12
Unit composition of one chamber							
#cut outs for alignment							
Unit construction type	BMS-B	BMS-B	BMS-C	BMS-C	BMS-E	BMS-E	
# Units	4	4	4	4	4	4	24
Linked to MDT	BMF.1		BMF.2		BMF.3		
Detetector layers dimensions and positions							
# of detector layers	2	2	2	2	2	2	
Length in z (mm)	1110	1110	990	990	750	750	
Width in phi (mm)	3200	3200	3200	3200	3200	3200	
Active width (mm)	2960	2960	2960	2960	2960	2960	
Off axis in phi (mm)							
Position in R (mm) of unit center-line							
Offset in R of first layer center-line	+	-	+	-	+	-	
Offset in R of second layer center-line	+	-	+	-	+	-	
Position in z (mm)	631,0	1683,3	4070,0	5002,3	7280,0	7972,3	
Strips pitches and numbers							
Longitudinal (eta) strip pitch (mm)	27,15	27,15	30,19	30,19	30,25	30,25	
Transevresal (phi) strip pitch (mm)	30,58	30,58	30,58	30,58	30,58	30,58	
# of longitudinal (eta) strips/layer	80	80	64	64	48	48	
# of transversal (phi) strips/layer	96	96	96	96	96	96	
# of longitudinal (eta) strips/unit	160	160	128	128	96	96	
# of transversal (phi) strips/unit	192	192	192	192	192	192	
# of longitudinal (eta) strips/chamber	320		256		192		
# of transversal (phi) strips/chamber	384		384		384		
Total # of longitudinal (eta) strips	1280		1024		768		3072
Total # of transversal (phi) strips	1536		1536		1536		4608
Total # of strips	2816		2560		2304		7680
Area, Volume and Weight							
Area/unit (m2)	3,3	3,3	2,9	2,9	2,2	2,2	
Area/chamber (m2)	6,6		5,9		4,4		
Total area	26,3		23,4		17,8		67
Gas volume/unit (lt)	13,1	13,1	11,7	11,7	8,9	8,9	
Gas volume/chamber (lt)	26,3		23,4		17,8		
Total gas volume (lt)	105,1		93,8		71,0		270
Weigth of RPC multilayer structure/unit (kg)	63,0	63,0	56,2	56,2	42,5	42,5	
Weigth of RPC multilayer structure/chamber (	125,9		112,3		85,1		
Weigth gas volumes frame/unit (kg)	0,228	0,228	0,221	0,221	0,208	0,208	
Weigth gas volumes frame/chamber (kg)	0,456		0,442		0,416		
Weigth of lateral profiles/unit (kg)	16,3	16,3	16,3	16,3	16,3	16,3	
Weigth of lateral profiles/chamber (kg)	32,6		32,6		32,6		
Weigth of end plates/unit (kg)	5,0	5,0	4,4	4,4	3,3	3,3	
Weigth of end plates/chamber (kg)	9,9		8,8		6,7		
Weigth of electronic boards/unit (kg)	1,7	1,7	1,6	1,6	1,5	1,5	
Weigth of electronic boards/chamber (kg)	3,4		3,3		2,9		
Weight of cables/unit (kg)	5,3	5,3	4,8	4,8	4,3	4,3	
Weight od cables/chamber (kg)	10,6		9,6		8,6		
Weight of common support structure (kg)							
Weight/chamber	182,9		167,1		136,4		
Total weight	731,5		668,2		545,5		1945
Electronics							
Front End boards/unit	44	44	40	40	36	36	
Front End boards/chamber	88		80		72		
Total n° of Front End boards	352		320		288		960