

MASS OF ONE BOLT COMPLETE WITH  
NUTS AND WASHER = 2,1 kg  
TOTAL MASS = 16,8 kg

H.D. BOLT DETAIL (4 OFF) N.T.S.



ITEM AND No OFF	BARS						SHAPE CODE	STANDARD SHAPES BENDING DIMENSIONS mm			
	Y OR R	* □ □	MK.	No OFF PER ITEM	TOTAL	CUTTING LENGTH mm		TOTAL LENGTH m	A	B	R
BASE. 1 OFF.	Y	12	01		44	2450		38	250	2000	
	Y	20	02		16	A		37	B	-	
	Y	10	03		10	1050		35	800		
	R	08	04		C	3400		60	800	800	

$$B = ( \text{LENGTH OF PLINTH} - 50 ) + 325$$
$$A = B + 520$$
$$C = (B/300) + 1$$

NOTES:

1. CONCRETE STRENGTH AT 28 DAYS/STONE SIZE:BLINDING = 15/19 FOUNDATIONS = 25/19
2. MIN. CONCRETE COVER TO REINFORCEMENT = 50 mm.
3. a.) H.D.BOLTS SUPPLIED BY CIVIL CONTRACTOR COMPLETE WITH NUTS AND WASHERS TO BE HOT DIPPED GALVANISED TO SABS 763
- b.) THREADS OF NUTS TO BE OVER-CUT TO SABS 763 TO ALLOW FOR THICKNESS OF GALVANISING
4. FORMWORK TO EXTEND AT LEAST 150mm BELOW GROUND LEVEL.
5. ALL WELDING AND WELDING SYMBOLS TO S.A.B.S. 044
6. STEEL TEMPLATE TO BE USED FOR SETTING H.D.BOLTS
7. 30MPa FLOWABLE NON-SHRINK GROUT UNDER BASE PLATE ONLY IF ALIGNMENT NUTS IS USED UNDER BASEPLATE
8. ALL TOP EDGES OF CONCRETE TO HAVE 20x20 CHAMFERS
9. ALL WORK TO BE IN ACCORDANCE WITH SABS 1200 SERIES SPECIFICATION
10. CONCRETE FINISH : TOP OF FOUNDATION – WOOD FLOAT FINISH  
; SIDES – SMOOTH OFF SHUTTER FINISH
11. THESE FOUNDATIONS HAVE BEEN DESIGNED TO FOUND ON COMPETENT FOUNDING MATERIAL HAVING A MIN.GROUND BEARING CAPACITY OF 80 kPa  
IN ALL CASES COMPETENCY OF FOUNDING MATERIAL MUST BE ESTABLISHED BY A QUALIFIED GEOTECHNICAL ENGINEER

3	INNER SET HD BOLTS REMOVED	DJS	DBN	DJS	23/3/07		
2	BAR MK.01 VALUES A & B CHANGED	DBN	DBN	DJS	4/5/06		
1	BAR MK. 04 ADDED - STIRRUPS	DBN	DBN	DJS	9/2/04		
0						4844	400KV PANTO ISO SUPP
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	0.54	REFERENCE DRAWINGS

DESIGN APPROVED D.J.C.Senekele.		 <b>Eskom</b> Transmission		400kV HAPAM  PANTOGRAPH ISOLATOR 3300 HIGH FOR TRIPLE AAC BUSBARS FOUNDATION DETAILS		SHEET NUMBER		REVISION	
DATE 18.10.2002						-		3	
DESIGN CHECKED DB.N.				0.54/5829					
DATE 18.10.2002									
DRAWN BY D.J.C.S.		SCALE 1:25							
DATE 18.10.2002									