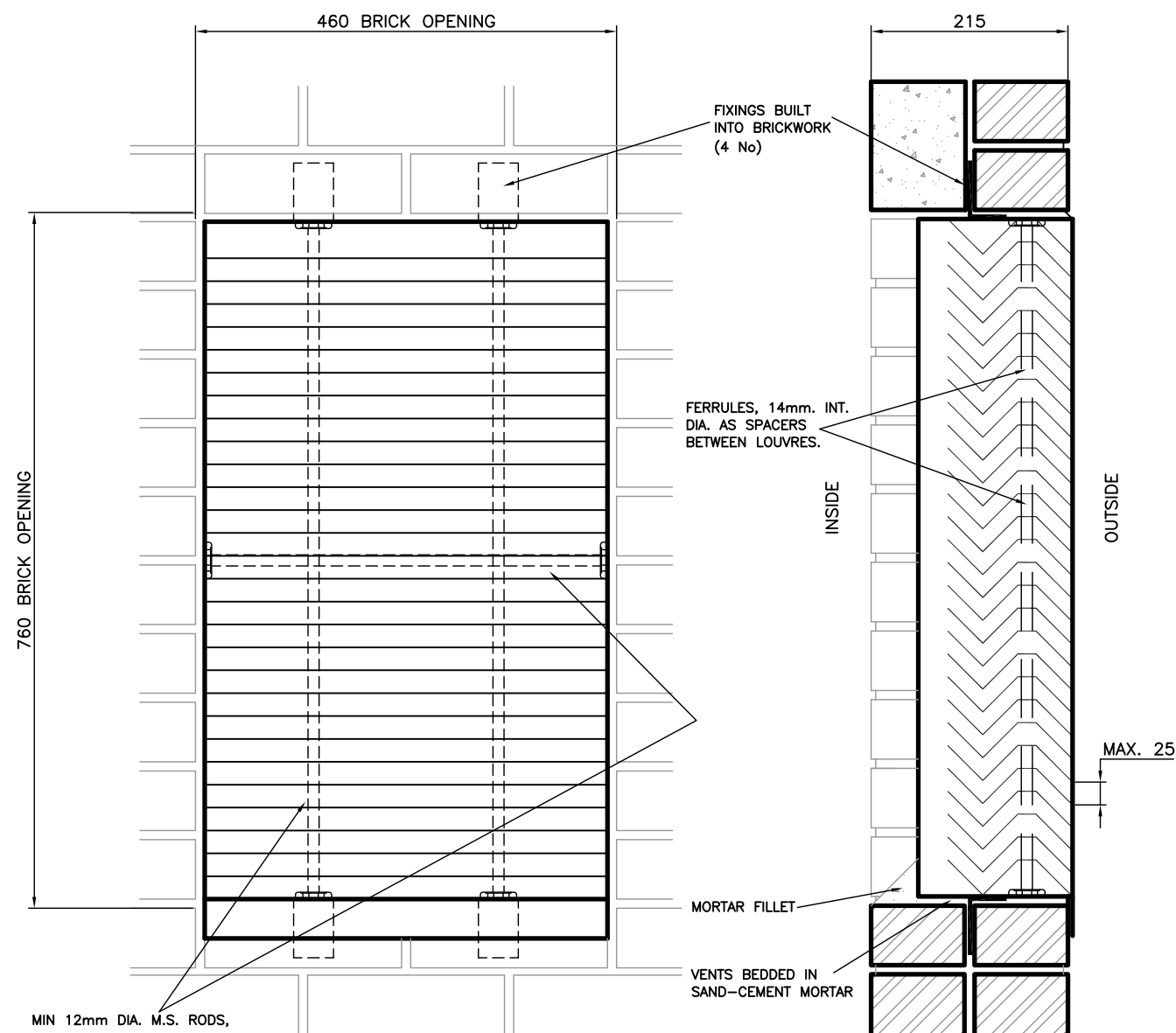
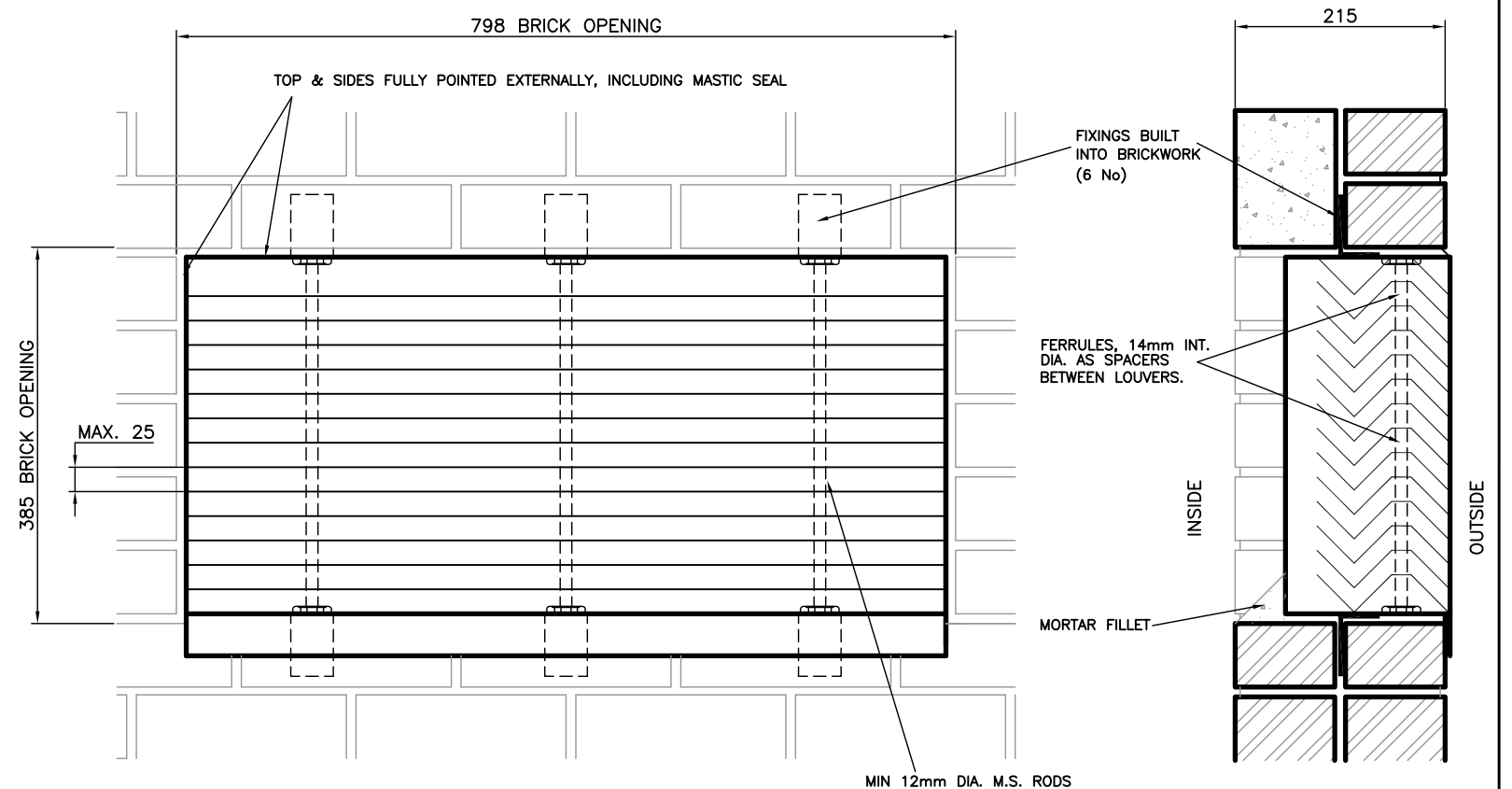




EXTERNAL ELEVATION

VERTICAL SECTION

VERTICAL VENTILATOR



EXTERNAL ELEVATION

VERTICAL SECTION

HORIZONTAL VENTILATOR

VENTILATION SHOWN IS TYPICAL FOR A 500kVA TRANSFORMER. VENTILATION UNIT OPENING SIZES FOR 1000kVA TRANSFORMERS SHALL BE A MINIMUM 1002 X 450mm. TYPICAL VENTILATION INDICATED MAY NOT BE ADEQUATE IN CERTAIN SUPPLY CONDITIONS, WHICH MIGHT REQUIRE ADDITIONAL OR ALTERNATIVE VENTILATION ARRANGEMENTS.

THIS DRAWING TO BE READ IN CONJUNCTION WITH SUB-03-017 'GENERAL SPECIFICATION FOR THE CIVIL ENGINEERING AND BUILDING DESIGN AND CONSTRUCTION OF SECONDARY SUBSTATIONS'

NOTES:

1. NOT APPLICABLE TO HV SWITCHING STATIONS.
2. DRAWING TO BE READ IN CONJUNCTION WITH SP4000545, SP3020357, SP4053389 & SP4058664. TYPICAL TRADITIONAL BUILDING DETAILS FOR SECONDARY SUBSTATIONS (NOT APPLICABLE TO HV SWITCHING STATIONS).
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH SUB-03-017 'GENERAL SPECIFICATION FOR THE CIVIL ENGINEERING AND BUILDING DESIGN AND CONSTRUCTION OF SECONDARY SUBSTATIONS'.

ADEQUATE NATURAL VENTILATION SHALL BE PROVIDED TO DISSIPATE HEAT GENERATED BY TRANSFORMERS AND TO PREVENT CONDENSATION. DESIGNERS SHOULD REFER TO SUB-02-006 ("SECONDARY SUBSTATION INSTALLATION AND COMMISSIONING SPECIFICATION") FOR TYPICAL TRANSFORMER HEAT GENERATION VALUES.

VENTILATION UNITS SHALL BE OF ROBUST VANDAL & CORROSION RESISTANT CONSTRUCTION, OFFERING THE SPECIFIED DEGREE OF PROTECTION FROM WATER INGRESS AND LONG OBJECT PROBES WHICH MAY HAVE THE POTENTIAL TO INFRINGE ELECTRICAL SAFETY

INTUMESCENT VENTILATION UNITS SHALL BE PROVIDED WHERE SEGREGATION IN THE EVENT OF FIRE IS REQUIRED.

VENTILATORS MANUFACTURED FROM MIN. 18 GAUGE, (1.2mm) GALVANISED M.S. ALL PARTS TO BE HOT DIPPED GALVANISED IN ACCORDANCE WITH THE SPECIFICATION BEFORE ASSEMBLY.

ALL DIMENSIONS ON THIS DRAWING ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

Rev.	Date	UPDATED.
5.0	MAR.2010	
Drawn	M.T.	
Checked	C.W.	
Approved	A.J.R.	



SP PowerSystems Ltd
System Design, Drawing Office
3 Prenton Way, Prenton, CH43 3ET
Telephone 0151 6092491

Title
TYPICAL 'Z' VENT LOUVRED VENTILATION UNITS FOR SECONDARY SUBSTATION BUILDINGS HOUSING INDOOR EQUIPMENT

Location					
TYPICAL					
Drawn	Date	Checked	Date	Approved	Date
L.A.	12/4/06	M.T.	12/4/06	A.J.R.	12/4/06
Status			Org. No.		Rev.
FOR ISSUE			SP4000542		5.0
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			1:5		A2