

# TYPICAL TOP HAT FIXING DETAILS

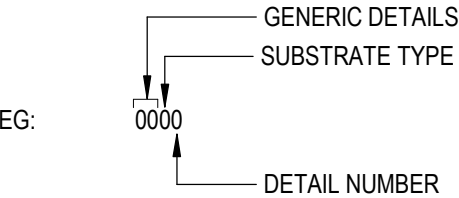
DRAWING LIST	
DRAWING №	DRAWING TITLE
0009	COVER SHEET AND DRAWING LIST
0010	TOP HAT TO EXISTING CONCRETE 1
0011	TOP HAT TO EXISTING CONCRETE 2
0012	TOP HAT TO EXISTING CONCRETE 3
0013	TOP HAT TO EXISTING CONCRETE 4
0014	TOP HAT TO EXISTING CONCRETE 5
0020	TOP HAT TO EXISTING AAC BLOCK 1
0021	TOP HAT TO EXISTING AAC BLOCK 2
0030	TOP HAT TO EXISTING SOLID BLOCK 1
0031	TOP HAT TO EXISTING SOLID BLOCK 2
0032	TOP HAT TO EXISTING SOLID BLOCK 3
0033	TOP HAT TO EXISTING SOLID BLOCK 4
0034	TOP HAT TO EXISTING SOLID BLOCK 5
0040	TOP HAT TO EXISTING SOLID BRICK 1
0041	TOP HAT TO EXISTING SOLID BRICK 2
0042	TOP HAT TO EXISTING SOLID BRICK 3
0043	TOP HAT TO EXISTING SOLID BRICK 4
0044	TOP HAT TO EXISTING SOLID BRICK 5
0050	TOP HAT TO EXISTING HOLLOW BLOCK 1
0051	TOP HAT TO EXISTING HOLLOW BLOCK 2
0052	TOP HAT TO EXISTING HOLLOW BLOCK 3
0053	TOP HAT TO EXISTING HOLLOW BLOCK 4
0060	TOP HAT TO EXISTING EXTRUDED BRICK 1
0061	TOP HAT TO EXISTING EXTRUDED BRICK 2
0062	TOP HAT TO EXISTING EXTRUDED BRICK 3
0063	TOP HAT TO EXISTING EXTRUDED BRICK 4
0070	TOP HAT TO EXISTING STUD WALL 1
0071	TOP HAT TO EXISTING STUD WALL 2

ANCHOR FIXING SCHEDULE						
ANCHOR	NOMINAL SIZE	DESCRIPTION	EMBEDMENT (MINIMUM) (mm)	SUBSTRATE	ACCEPTABLE PRODUCT	MAX. TENSION Nr,d (kN)
TYPE A OPTION 1	M10	MECHANICAL	40	CONCRETE (MIN 32MPa)	HST3-R	7.34
TYPE A OPTION 2	M10	CHEMICAL	90	CONCRETE (MIN 32MPa)	HAS-U-R + HVU2	16.79
TYPE B OPTION 1	M8	MECHANICAL	47	CONCRETE (MIN 32MPa)	HST3-R	7.16
TYPE B OPTION 2	M8	CHEMICAL	80	CONCRETE (MIN 32MPa)	HAS-U-R + HVU2	7.02
TYPE C OPTION 1	8mm	MECHANICAL (SCREW ANCHOR)	60	CONCRETE (MIN 32MPa)	HUS-HR	4.21
TYPE C OPTION 2	6mm	MECHANICAL (SCREW ANCHOR)	55	CONCRETE (MIN 32MPa)	HUS-HR	3.01
TYPE D	M10	CHEMICAL	50	CONCRETE BLOCK (MIN 15MPa)	HAS-U-R + HIT-HY 270	1.2
TYPE E	M8	CHEMICAL	50	CONCRETE BLOCK (MIN 15MPa)	HAS-U-R + HIT-HY 270 + HIT-SC	1.2
TYPE F	M10	-	-	CONCRETE BRICK (MIN 15MPa)	-	-
TYPE G	M10	CHEMICAL	50	HOLLOW BLOCK (MIN 15MPa)	HAS-V-R + HIT-HY 270 + HIT-SC	0.8
TYPE H	M8	CHEMICAL	80	EXTRUDED CLAY BRICK (MIN 25MPa)	HIT-V-R + HIT-HY 270	0.77
TYPE J	M8	-	-	CONCRETE BLOCK (MIN 15MPa)	-	-
TYPE K	8mm	CHEMICAL	80	PRESSED CLAY BRICK (MIN 25MPa)	HIT-V-R + HIT-HY 270	2.6
TYPE L	6mm	-	-	AAC (2MPa)	-	-
TYPE M	G12	-	-	LIGHT GAUGE METAL STUD (G550)	-	-

- NOTE:
- ALL FASTENERS TO BE MINIMIM STAINLESS STEEL GRADE 304 OR EQUIVALENT
  - MINIMUM 10% OF TOTAL FASTENERS ARE TO BE SUBJECTED TO ON-SITE PULL-OUT TESTING (PROOF LOAD TESTS) TO THE DESIGN WORKING LOAD (MIN.). LOCATION OF TESTS ARE TO BE SPREAD OUT OVER THE EXTENT OF THE PROPOSED WORKS TO ENSURE AN ACCURATE DERIVATION OF CHARACTERISTIC RESISTANCE OF THE BASE MATERIAL CAN BE DETERMINED. TESTS SHALL ALSO BE INCREASED FOR AREAS WITH UNFAVOURABLE CONDITIONS FOR PRACTICAL EXECUTION
  - WHEN ANCHORING INTO BRICKS OR SOLID OR HOLLOW MASONRY THE CHARACTERISTIC RESISTANCE IS TO BE USING ON-SITE TENSION TESTS (PULL-OUT TESTS OR PROOF-LOAD TESTS), ACCORDING TO EOTA TR053 PRIOR COMMENCEMENT OF CONSTRUCTION.

## NOTES:

### DRAWING NUMBER LEGEND:



- SUBSTRATE TYPES
- CONCRETE -150mm THICK MINIMUM
  - AUTOCLAVED AERATED CONCRETE -75mm THICK MINIMUM
  - SOLID BLOCK -140mm THICK MINIMUM
  - SOLID BRICK -110mm THICK MINIMUM
  - HOLLOW BLOCK -190mm THICK MINIMUM
  - EXTRUDED BRICK -110mm THICK MINIMUM
  - STEEL STUD

TITLE  
COVER SHEET AND DRAWING LIST

CLADDING ALL TYPES

SUBSTRATE:  
AS LISTED ABOVE

DWG NUMBER 000-AC-GF-DWG-0009

Rev

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