BD REF BIM REF FSD REF

STRUCTURAL DETAILS OF EMBED FOR CURTAIN WALL

GENERAL NOTES

- 1. THE DESIGN AND CONSTRUCTION OF EMBED SHALL BE IN ACCORDANCE WITH THE FOLLOWING
 - BUILDING (CONSTRUCTION) REGULATION
 - CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011
 - CODE OF PRACTICE FOR STRUCTURAL USE OF CONCRETE 2013
 - CODE OF PRACTICE FOR DEAD AND IMPOSED LOAD 2011
 - CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2019
- 2. ALL STRUCTURAL STEEL TO BE GRADE S275 JO AND COMPLY WITH BS EN 10025. ALL SECTIONS SHALL BE CLASS 1 AS SPECIFIED IN CLAUSE 3.1.1 OF THE CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.
- 3. ALL STRUCTURAL STEELWORKS AND CAST-IN BOLTS/DOWELS/RIBBED STEEL REINFORCING BARS(REBARS) WITH THICKNESS OR DIAMETER GREATER THAN 6mm TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH BS EN ISO 1461:2009 TO AT LEAST 85 MICRONS THICKNESS.
- 4. ALL WELDING SHALL BE CARRIED OUT BY QUALIFIED WELDERS IN ACCORDANCE WITH BS EN 287-1:2011 AND BS EN 288-3:1992.
- 5. DESIGN STRENGTH OF FILLET WELDS SHALL BE IN ACCORDANCE WITH BS EN 756:2004 AND BS EN 440:1995 AS SHOWN BELOW TABLE

GRADE OF STEEL IN BS EN STANDARDS	ELECTRODE CLASSIFICATION	(EN	IS0	STANDARDS)	(N/mm^2)
	42			50	
S275	(220)		(220)		

- 6. ALL WELDING SHALL BE 6mm FILLET WELDS, UNLESS OTHERWISE SPECIFIED.
- 7. WELDING TESTS SHALL COMPLY WITH CLAUSE 14.3.6 OF THE CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.
- 8. REQUIREMENTS OF CAST-IN BOLTS/DOWELS/REBARS:

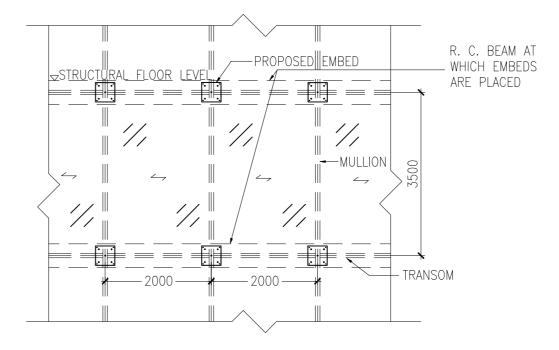
 (a)THE MATERIAL SHOULD BE ANTI-CORROSION TYPE WITHOUT BI-METALLIC EFFECT WITH THE SUPPORTING STRUCTURE
- 9. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF SUPPORTING STRUCTURE TO BE 30 $\ensuremath{\text{N/mm}^2}$
- 10. ALL REACTION FORCE/BENDING MOMENT OF EMBED ARE UNDER MAXIMUM WORKING LOAD CASES
- 11. LAYOUT / LOCATION OF EMBED SHOULD REFER TO CURTAIN WALL LAYOUT PLAN
- 12. MATERIAL AND SPECIFICATION OF CAST-IN BOLTS/DOWELS/REBARS:
- (i) EMBED TYPE A
 ALL REBARS TO BE CHARACTERISTICS STRENGTH OF GRADE 500B
 AND COMPLY WITH CS2:2012
- (ii) EMBED TYPE B
 ALL CAST-IN DOWELS TO BE GRADE S275 JO AND COMPLY WITH BS EN 10025

(iii) EMBED TYPE C

ALL CAST-IN BOLTS WITH GRADE 8.8 SHOULD COMPLY WITH BS 4190:2001 AND BS 7419:1991.

- 13. SIZE OF TYPICAL CURTAIN WALL UNIT TO BE 2.0m (WIDTH)x3.5m (HEIGHT)
- 4. WIND PRESSURE = 2.86kPa, S_{θ} = 0.85, S_{t} = 1, S_{S} = 1.17, C_{P} = 1.4
- 15. DESIGN WIND PRESSURE = 4.0kPa
- 16. MINIMUM HORIZONTAL IMPOSED LOAD ON PROTECTIVE BARRIERS AS SHOWN BELOW TABLE

CATEGORY	LINE LOAD TO BE APPLIED AT A HEIGHT OF 1.1m ABOVE THE FLOOR LEVEL (kN/m) HINFORMLY DISTRIE LOAD TO BE APPLIE THE INFILL BETWEEN AND TOP RAIL (k		CONCENTRATED LOAD TO TO BE APPLIED ON ANY PART OF THE INFILL BETWEEN FLOOR AND TOP RAIL (kN)
AREAS WHERE PEOPLE MAY CONGREGATE BUT OVERCROWDING IS NOT EXPECTED	1.5	1.5	1.5



ELEVATION OF TYPICAL CURTAIN WALL UNIT

(ALL MULLIONS, TRANSOMS AND GLASS UNITS ARE UNDER SEPARATED SUBMISSION)

REV. DATE AMENDMENT PROJECT SAMPLE DRAWING TITLE STRUCTURAL DETAILS OF EMBED FOR CURTAIN WALL SCALE DRAWING NO. REV. NO. SORUCE 90mm(W) x 40mm(H) space for COMPANY LOGO 90mm(W) x 60mm(H) space for AP/RSE/RGE's signature/ and stamp chop BD's OFFICIAL USE

90mm(W) x 150mm(H) space

for BD's approval stamp/ certification of copies of

(PNAP ADM-10 APP A)

approved plans

