

STAIRCASE

105. EFFECTIVE SPAN (L) SPECIFIED IN THE SCHEDULE SHALL BE TAKEN AS THE FOLLOWING HORIZONTAL DISTANCES
- (a) WHERE SUPPORTED AT TOP AND BOTTAM RISERS BY BEAMS SPANNING PARALLEL WITH THE RISERS, THE DISTANCES C/C OF THE BEAMS.
 - (b) WHERE SPANNING ON TO EDGES OF A LANDING SLAB, WHICH SPAN PARALLEL, WITH THE RISERS (FIG.- 39) A DISTANCE EQUAL TO THE GOING OF THE STAIRS PLUS AT EACH END EITHER HALF WIDTH OF LANDING OR ONE METER, WICHEVER IS SMALLER; AND
 - (c) WHERE LANDING SLAB SPANS IN THE SAME DIRECTION AS THE STAIRS, THEY SHALL BE CONSIDERED AS ACTING TOGETHER TO FORM A SINGLE SLAB AND THE SPAN DETERMINED AS THE DISTANCE C/C OF SUPPORTING BEAMS OR WALLS, THE GOING BEING MEASURED HORIZONTALLY.
106. BARS a, c, e, etc ARE THE MAIN BARS FOR THE 1st, 2nd, 3rd FLIGHTS RESPECTIVELY OF THE STAIRCASE.
107. BARS b, d, f, etc ARE THE TOP BARS FOR THE 1st, 2nd, 3rd, FLIGHTS RESPECTIVELY OF THE STAIRCASE.
108. DIA AND SPACING OF a, b, c, d, e, and f, BARS SHALL BE SAME AS THAT OF MAIN BARS GIVEN IN THE SCHEDULE.
109. TOP BARS SHALL BE TAKEN INTO WAIST SLAB OF FLIGHT UPTO 0.3L OR DEVELOPMENT LENGTH OF BARS IN TENSION, WHICHEVER IS MORE, WHERE L IS THE EFFECTIVE SPAN AS DEFINED IN NOTE 1 ABOVE.
110. THE DETAILING OF REINFORCEMENT WHERE A STAIR IS SUPPORTED ON BEAMS SHALL BE DONE AS PER FIG.- 4 0. FOR THE REINFORCEMENT DETAILS OF BEAM, MAIN DRG SHALL BE FOLLOWED.
111. THE LIVE LOAD OF 3 KN / SQN AND 4 KN / SQN AS GIVEN IN SCHEDULE OF STAIRCASE SHALL BE MADE APPLICABLE TO RELEVANT BUILDING AS SPECIFIED IN IS - 875.

TABLE -6: SCHEDULE OF STAIRCASE

S. NO.	NOMENCLATURE	MAX EFFECTIVE SPAN	LIVE LOAD IN KN / SQM	THICK. OF WAIST SLAB t IN MM	MAIN BARS	DIST. BARS	REMARKS
1	A-1	UP TO 3000	3	150	# 10 @ 150 C/C	# 8 @ 200 C/C	
2	A-2	3001 TO 3500	3	175	# 10 @ 120 C/C	# 8 @ 200 C/C	
3	A-3	3501 TO 4000	3	200	# 10 @ 100 C/C	# 8 @ 200 C/C	
4	A-4	4001 TO 4500	3	225	# 12 @ 120 C/C	# 8 @ 200 C/C	
5	B-1	UP TO 3000	4	150	# 10 @ 120 C/C	# 8 @ 200 C/C	
6	B-2	3001 TO 3500	4	200	# 10 @ 100 C/C	# 8 @ 200 C/C	
7	B-3	3501 TO 4000	4	200	# 12 @ 120 C/C	# 8 @ 200 C/C	
8	B-4	4001 TO 4500	4	225	# 12 @ 100 C/C	# 8 @ 200 C/C	

SNO.	DATE	DESCRIPTION	BY DIR	DIR(DES)
			INITIAL	
REVISIONS				
DATE	30 MAY 2024	CHIEF ENGINEER JALANDHAR ZONE		
DRN	POOJA T			
TCD				
CKD				
SCALE	AS SHOWN	TYPICAL RCC DETAILS		
SHT. SIZE	A3			
<i>Bombay</i> DIR (DESIGN)		DETAILS OF STAIR CASE		
<i>Ump</i> DIR (DESIGN) FOR CHIEF ENGINEER		DRG. NO.	SHEET NO.	
			25/34	
		DRG NO CEJZ / STD- 422/24		