

## WALKWAYS

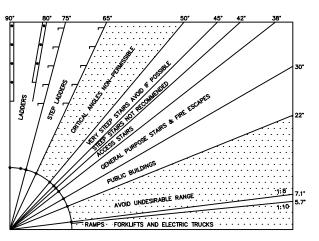
WALKWAYS SHOULD BE FITTED WITH KICK PLATES MADE FROM ANGLES OR FLAT THAT RISE AT LEAST 100mm ABOVE FINISHED FLOOR LEVEL. ALL EDGES ON KICKPLATES TO BE ROUNDED.

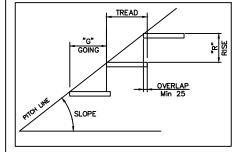
WALKWAYS MUST BE PROTECTED BOTH SIDES BY HANDRAILING.

GRATING FIXED TO SUPPORTING STEEL WORK ACCORDING TO MANUFACTURES SPECIFICATIONS.

- WW = 600mm OCCASIONAL USE (EXCEPTIONAL)
  - = 750mm MIN. FOR NORMAL USE
- = 1000mm FOR REGULAR TWO-WAY TRAFFIC = 1100mm FOR EMERGENCY ESCAPE ROUTE.
- CH = 2100mm MIN. HEAD ROOM (CLEARANCE HEIGHT)

# SLOPES AND PROPORTIONS FOR LADDERS, STEP LADDERS, STAIRWAYS AND RAMPS





### RECOMMENDATIONS FOR STAIRWAYS

- 'G' (GOING) 270mm IDEAL SITUATIO 'G' NOT LESS THAN 250mm
- 'R' (RISE)175mm FOR USE BY GENERAL PUBLIC 'R' 190mm IDEAL SITUATION 'R' NOT TO EXCEED 200mm
- THE VARIATION IN 'R'(RISE) IN ONE FLIGHT OF STAIRS IS NOT

### **GENERAL**

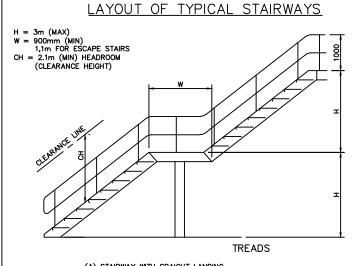
THE DESIGN OF A STAIRWAY SHOULD BE GOVERNED BY SUCH FACTORS AS EASE OF ACCESS, FREQUENCY OF USE, STANDARD OF SAFETY REQUIRED AS WELL AS A SUITABLE PROPORTION BETWEEN RISE AND GOING.

- THE WIDTH OF A STAIRWAY IS THE CLEAR DISTANCE MEASURED BETWEEN STRINGERS:
- a) 750mm FOR STAIRWAYS USED FOR OCCASIONAL ACCESS TO PLANT PLATFORMS ETC. b) 1000mm FOR MAIN STAIRWAYS USED FOR CONSTANT REGULAR TWO-WAY TRAFFIC
- c) 1100mm FOR STAIRWAYS USED FOR EMERGENCY ESCAPE ROUTE

THE RECOMMENDED STAIRWAY SLOPES ARE:

- a) 38° FOR MAIN STAIRWAYS USED FOR CONSTANT TWO-WAY TRAFFIC
- b) UP TO 42' FOR STAIRWAYS USED FOR OCCASIONAL ACCESS

  C) SLOPES BETWEEN 42' AND 50' ARE NOT RECOMMENDED FOR NORMAL USE,
- AND SHOULD BE ADOPTED ONLY IN EXCEPTIONAL CASES.

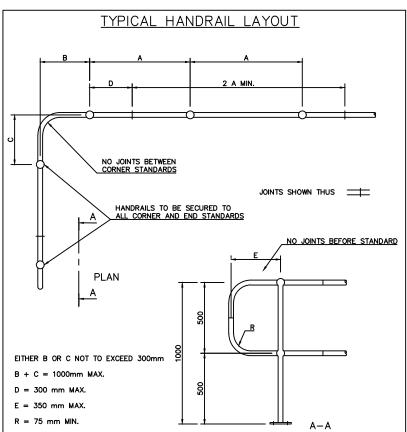


(A) STAIRWAY WITH SRAIGHT LANDING

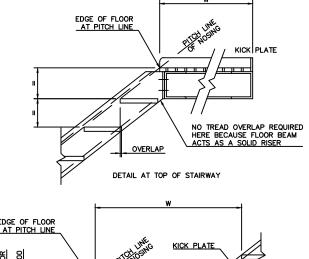
(B) STAIRWAY WITH 180° LANDING

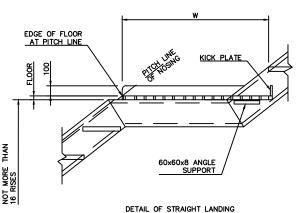
TREADS SHOULD HAVE A NON-SLIP SURFACE
THAT WILL RETAIN ITS EFFECTIVENESS DURING
CONSTANT AND PROLONGED USE.
TREADS FOR STEEL STATES ARE TO BE MADE
FROM RAISED PATTERN PLATE OR OPEN GRATING.
GRATING-TYPE TREADS ARE NOT SUITABLE
FOR USE BY WOMEN WEARING SMALL HEELS,
(FOR COTTON SIZE FEARE STATEMAYS) (E.G. OFFICE FIRE-ESCAPE STAIRWAYS)

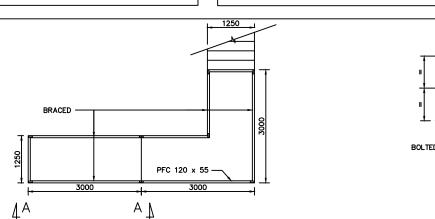
TREADS SHOULD HAVE NON-SLIP SIGHTING EDGES OR NOSES AT LEAST 25mm WIDE WITH A RAISED PATTERN NO HIGHER THAN 3mm. SIGHTING EDGES ARE ESSENTIAL FOR TREADS MADE FROM GRATING. NOSING EDGES SHOULD HAVE SHARP CORNERS GROUND OFF TO A RADIUS NOT



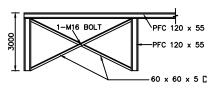




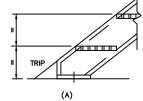




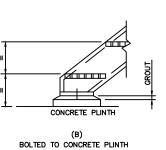
PLAN: TYPICAL WALKWAY



ELEVATION A-A: TYPICAL BRACING



BOLTED DIRECTLY TO THE FLOOR



STRINGER

'G' = GOING 'R' = RISERS

THE STEEL SECTIONS MOST COMMONLY USED FOR STAIR STRINGERS ARE 180x70mm CHANNELS AND 180x10mm FLATS. FOR LARGER SPANS THE SECTIONS SHOULD BE DETERMINED BY STRUCTURAL REQUIREMENTS

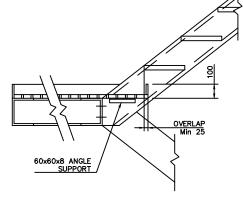
BOLTED TO CONCRETE PLINTH FOR CORROSIVE CONDITIONS

LANDINGS SHOULD BE FITTED WITH KICK PLATES MADE FROM ANGLES OR FLATS THAT RISE AT LEAST 100mm ABOVE FINISHED FLOOR LEVEL.

LANDINGS AND WALKWAYS MUST BE PROTECTED BOTH SIDES BY HANDRAILING.

GRATING FIXED TO SUPPORTING STEEL WORKS ACCORDING TO MANUFACTURERS SPECIFICATIONS.

STAIRWAY STRINGER BASE DETAIL



DETAIL OF 180° LANDING

W = 900mm MIN. OR 1100mm FOR ESCAPE STAIRS



GENERAL STRUCTURAL STANDARDS FOR WALKWAYS, STAIRWAYS AND PLATFORMS

-/A TYPICAL WALKWAY AND BRACING INSERTED REVISIONS PROJECT NAME DRAWN P.J.S. REF.

TRACED CAD DATE 98-09-03
CHECKED APPROVED SCALE N.T.S. **PL** SK. No. 2139