Circular no.**877(b)** Date: 17.05.2017

Sub.: Standard specifications for fasteners

Screws, plugs and anchor bolts are being arbitrarily ordered and used. Correct use of fasteners would make substantial difference to the quality of construction. Hereafter, fasteners shall be used as given under:

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Item | Type | Used for |
|  | Fisher plug 5 mm – Bosch make |  | RCC and brick work for screws upto 6 mm dia – primarily used for electrical work and fixing of frames, posters, etc. |
|  | Fisher plug in 6 mm – Bosch make |  | RCC and brick work for screws from 6 mm upto 8 mm dia - primarily used for plumbing work |
|  | S.S. screws 25 x 6 mm, 32 x 6 mm & 50x 6 mm with 5mm plug | Pin head | for electrical work |
|  | SS screws 32 x 6 mm with 5mm plug | CSK | for grill fixing |
|  | SS screws – 16 x 4 mm | pin head | For door no. plates |
|  | SS screws - 19 x 6 mm | CSK/ Pin head | for tower bolt/door handles |
|  | SS screws - 25 x 6 mm | Pin head | For car parking no. plates |
|  | SS screws - 38 x 8 mm | CSK /Pin head | For door stopper |
|  | Wood screws - 35 x 8 mm | CSK | for PVC pipe clamps – use with 6 mm fisher plug |
|  | Rack bolt – 5”x 16mm |  | For WC fixing |
|  | Rack bolt – 4”x 10mm |  | For wash basin brackets |
|  | SS screws – 35 x 8 mm with 6 mm plug | CSK | For PVC flush tanks |
|  | Anchor bolt 6 mm pin type in RCC / walls.  (Avoid 8mm) Make 5 mm hole |  | For staircase and balcony railing. Ladder fixing  Lentil brackets |
|  | Anchor bolt 6 mm with hook. Make 5 mm hole. |  | For drop wall |
|  | Anchor bolt 8 mm normal or pin type. Make 7 mm hole. |  | Fire safety wet raiser, generator exhaust pipe. |
|  | Anchor bolt 8 mm hook type |  | For ceiling fans |
|  | Anchor bolt 12 mm hook type |  | For swings |
|  | Door frame hold fast – 4” to 6” length, 1 ½” width in 4 mm thick MS flat fitted with 30 x 8 mm wood screw. For column fitting use 1” x 6mm x 9” flat | CSK | For door frames – fitted with 30 x 8 mm wood screw. Use 6mm plug. |
|  | Wood screws 25 mm x 8 mm | CSK | For wooden banister. Must use 1 1/4” MS flat for banister fixing. |
|  | Wood screws 60 x 8 mm, 75 x 8 mm | CSK | For banister post assembling. |
|  | Nut bolt -12 mm x 4” |  | For anchoring banister to floor |
|  | Anchor set chemical – Cera or equivalent brand |  | For anchoring MS and wooden railing into steps and floor |
|  | 1 ½ ” nails |  | For main door beading |
|  | 1” nails |  | For other doors beading |
|  | 2” nails |  | For chicken mesh fixing  For electrical conducting fixing |
|  | Bombay nails 2 ½” and 3” |  | For GI pipe fixing – concealed pipes only |
|  | Nails 2” or 2 ½” |  | For door frame assembly |

Notes:

1. Use 3 nos. 4” wide SS Dorset bearing type hinges for doors. Door hinges use screws supplied with Dorset hinges.
2. Use 4”/6” SS handles for window /doors.
3. Use 4”/6” SS tower bolts for window/doors.
4. Use 12” to 30” GI/composite brackets for pipe fitting.
5. Use U type clamps for horizontal PVC SWR drain pipes.
6. All PVC pipes for drainage and rain water must be screwed on to the wall with 6 mm plug and 35 x 8 mm wood screw. Do not use Bombay nails.
7. Purchase not to order any fasterners other than ones mentioned above without cross checking with project manager.
8. Wood screws must be of Sharpex or National brand. Sheet metal screws should be of TFR or Tuff brand.
9. Railing top for banister fixing must be 1 ¼” MS flat.
10. GI pipes of any size wherever exposed must be fitted with GI clamps (saddle with spacer bar) with 6 mm plug and 35 x 8 mm wood screws. Do not use Bombay nails.
11. CSK stands for Counter Sunk Head Screw (shaved head).
12. Nails shall be of MS.
13. Aluminum windows must use SS screws for their works.

Soham Modi.