

### **QUALITY & WORKMANSHIP**

Housekeeping **Insitu Concrete** Formwork Reinforcement **Precast Facade Units** Components **Finishings** 



### **QUALITY & WORKMANSHIP**

Ironmongery

Masonry

Matelwork

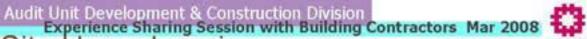
Waterproofing

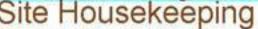
**Sanitary Fittings** 

**Plumbing & Drainage** 

**External & Landscape Works** Slope Treatment Works

# HOUSEKEEPING

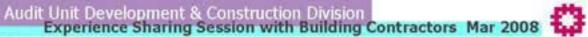




Site Housekeeping Materials stocked onto roof waterproof membrane



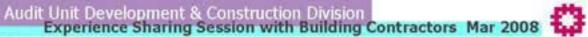
Area of completed waterproofing



Housekeeping on Site Materials stocked at main access







# Housekeeping on Site



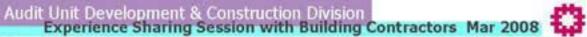






Housekeeping on Site Poor storage manner













Housekeeping on Site Rubbish and timber planks stacked at staircase escape route













Housekeeping on Site
Improper storage of construction material on access route

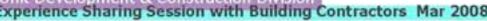










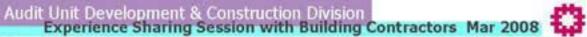


Housekeeping on Site
Residue left on floor after high speed cutting may
cause rust stains if not moved at once













# INSITU





Beam Soffit Formwork



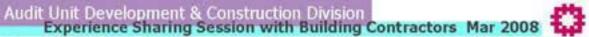








[CON 3.W140]





Concrete Cover to conduits NOT adequate spacing between formwork



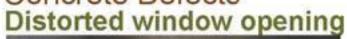
Concrete Defects



[DEI-105(4)]



Concrete Defects





[CON 2.W1020.4]

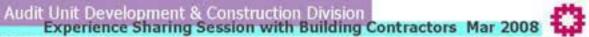




Quality of Concrete Retaining Wall Rough and damaged tie bolt holes

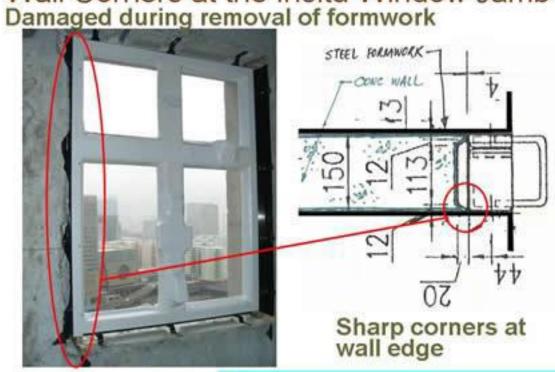


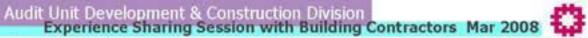
# **FORMWORK**





# Wall Corners at the Insitu Window Jamb









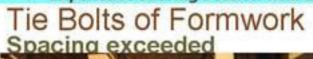


Tie Bolts of Formwork

NOT securely tied against two rows of railing













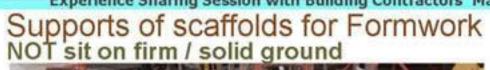


Pipe Sleeves at Formwork Inadequate length induced leakage of concrete







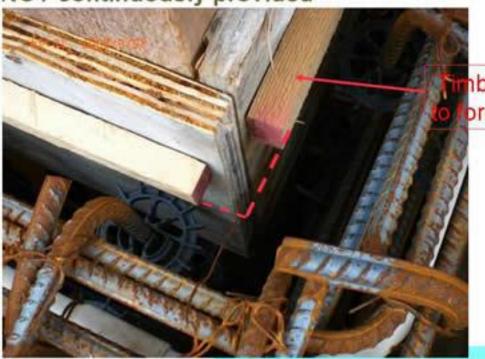




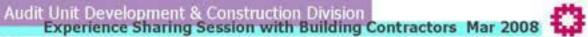


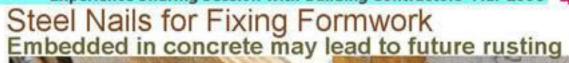






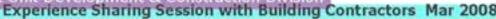
nber strip orm chase

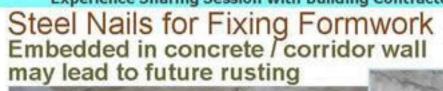












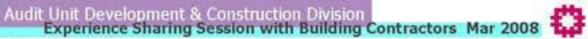






Steel Nails for Fixing Formwork Embedded in concrete / roof water tank may lead to future rusting







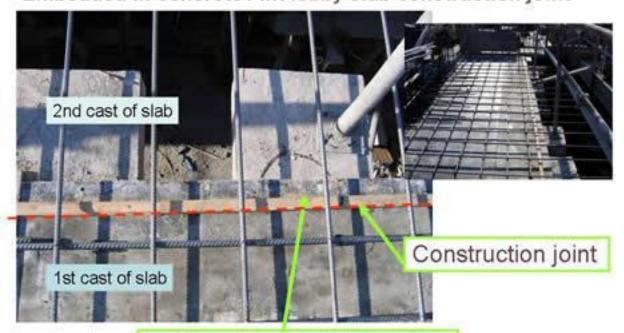








## Steel Nails for Fixing Formwork Embedded in concrete / lift lobby slab construction joint



bottom strip fixed with nails





# Steel Nails for Fixing Formwork Embedded in concrete / lift lobby slab construction joint





Steel Nails for Fixing Formwork Embedded in concrete / lift lobby slab construction joint







king Formwork
lift lobby slab construction joint

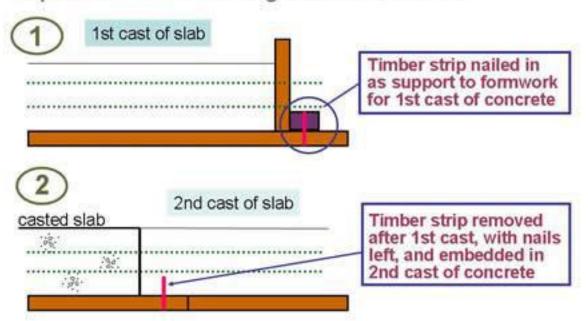


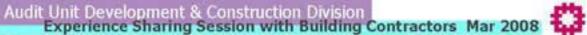
timber strip and nails for joint removed after 1st cast





## Steel Nails for Fixing Formwork Sequence of work – casting of in-situ floor slab



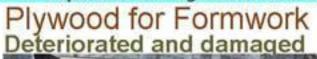




Steels contaminated by Mould Oil Fixing of steel started while mould oil still wet









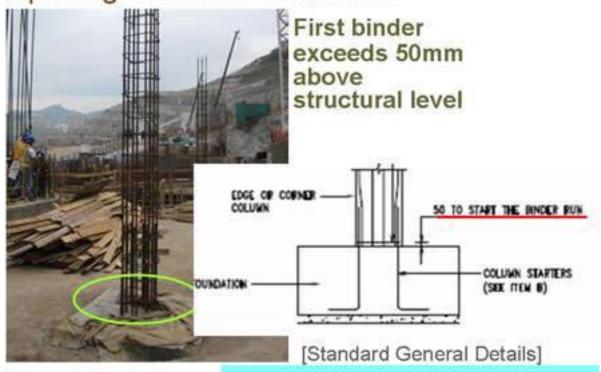


## REINFORCEMENT





### Spacing of Binder at Column





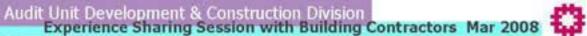
Steel Tying Wires for Reinforcement NOT to encroach into concrete cover zone

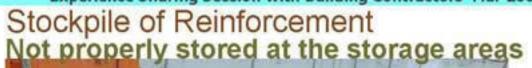




Cover to Reinforcement
To be controlled properly









[CON3.W010.4]



Stockpile of Reinforcement Not properly stored at the storage areas



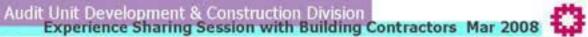
[CON3.W010.4]



Control for Use of Reinforcement NOT locked by chain before test results



[DEI-506 (2d]



## Reinforcement Identification Brown colour used too close to the original colour of the reinforcement



## PRECAST FACADE UNITS



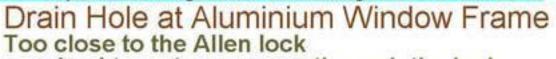
Chipped Precast Facade Units



## COMPONENTS





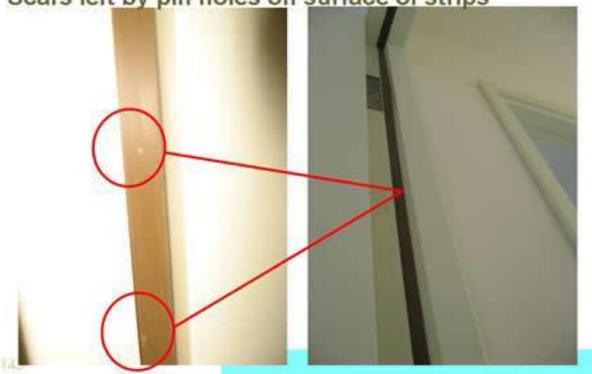








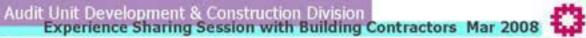
Intumescent Strip at Fire Door Scars left by pin holes on surface of strips



## **FINISHINGS**







Spacer for Wall Tile Laying
NOT to use carton paper, cannot remove
completely





**Expansion Joint** 

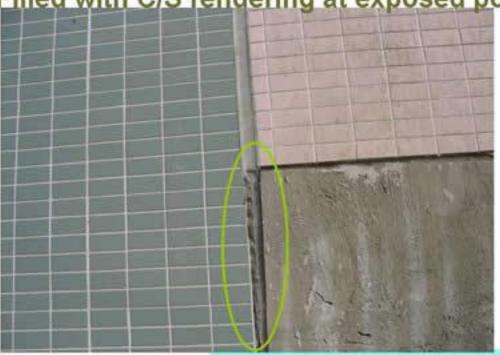
Covered up by wall tiles

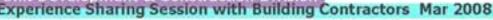






Covering Up of Expansion Joint Filled with C/S rendering at exposed portion







# Audit Unit Development & Construction Division Experience Sharing Session with Building Contractors Mar 2008 Improper Sealing at Top of Wall Tiles At kitchen / bathroom walls





## IRONMONGERY



### Bathroom Folding Door

Door lock bracket fixed by screws to plastic frame



NOT rigid, easy to become loose and fall off



Door lock bracket fixed to timber stud onto door architrave





Bathroom Folding Door Turning knob too small





Catch not securely fixed



Audit Unit Development & Construction Division Experience Sharing Session with Building Contractors Mar 2008

Door Guard at Entrance Door



Insufficient clearance between interlocking parts may accidentally lock the door when leaving the flat. Tenant will be locked out





Door Guard at Entrance Door Different models





Maximum swing slightly over 90°



Can swing flat Against architrave

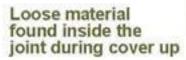
## **MASONRY**



### Panel Wall

Width of joint exceeded designed tolerance







Joint not fully grouted during construction



### Panel Wall

NOT properly stored

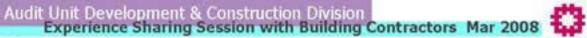




### Cramps for Door Sub-frames

Offset with adjacent cramp to increase rigidity







### Concrete Block Wall Improper joints at corner



## **METALWORK**





Fixing of Steel Door Plates Excessive long bolts used



## WATERPROOFING

# Audit Unit Development & Construction Division Experience Sharing Session with Building Contractors Mar 2008 Waterproof Membrane at Roof Damaged by fixing screws for electrical conduit / box







Waterproof Membrane at Roof
Tie bolt holes and sleeves at skirting level of
roof parapet wall have risk of water seepage

