

# **Procedures for applications for water supplies in new building projects adopting MiC**

# Regulatory Control on the Construction of Water Supply System adopting MiC

## WSD Circular Letter No. 2/2019

Stipulate requirements and procedures for applications for water supplies related to MiC projects with factory construction and plumbing works

Introduce measures to ensure quality controls on plumbing works constructed by MiC method are **on par with** conventional on-site construction method

Introduce mechanism for inspection of plumbing installations constructed at MiC factory before covering up.

# Legislation and regulatory requirements for new plumbing works in MiC Projects

plumbing proposal and pipe material shall comply with applicable technical requirements and standards prescribed in WWO, WWR and TR

Proposal Stage

submit plumbing proposal, **supervision plan, shop drawing and production schedule for the concealed part**, and apply for permission to commence works

Construction Stage

carry out plumbing works under the instruction and supervision of a licensed plumber or registered plumbing worker at MiC factory

Interim Inspection Stage

completed plumbing works to be concealed in MiC units will be inspected at MiC factory before covered up by **WSD Inspection Agent**

Commissioning

approval by WA after satisfactory final inspection at building site and fulfilling commissioning requirements for plumbing works

# Detail application procedures

## Proposal Stage

- specify the extent of plumbing works constructed at MiC factory in the plumbing proposal
- submit **supervision plan** to ensure adequate site supervision at MiC factory
- submit **shop drawings** for pipe installations that will be covered up at MiC factory
- submit production schedule, inspection schedule for the plumbing works to be covered up in the MiC module at MIC factory

# Detail application procedures

## Construction Stage

- Licensed Plumber (LP) and Registered Plumbing Workers (RPW) carry out supervision at MiC factory according to an approved supervision plan. Frequency of supervision depends on the extent and complexity of the plumbing works, in general:
  - **LP: minimum weekly supervision**
  - **RPW: continuous supervision**
- LP and RPW shall keep supervision records

# Detail application procedures

## Interim Inspection Stage

- WSD will deploy inspection agent to carry out
  - audit checks of the supervision records
  - audit check on construction activities of plumbing works at MiC factory

# Interim Inspection of conceal pipes in modules

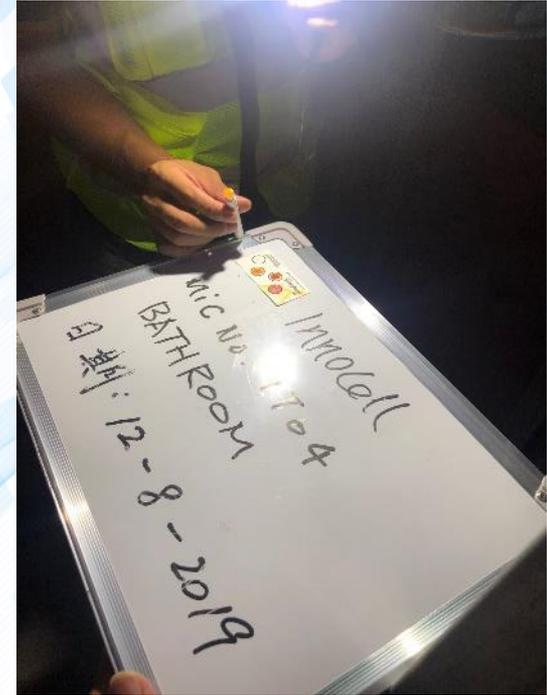
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# Interim Inspection of conceal pipes in modules

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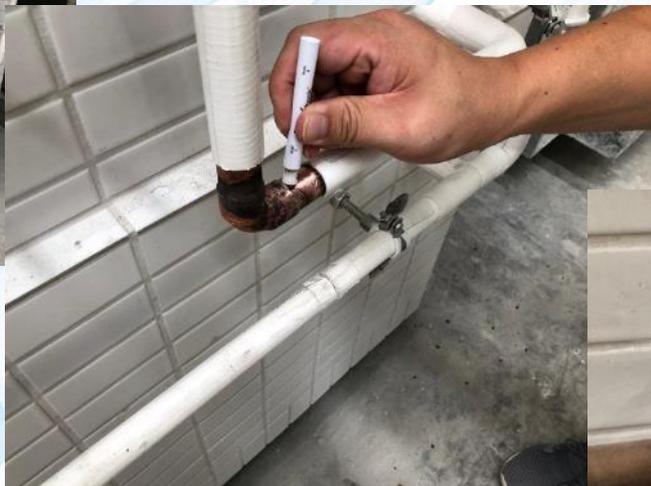
- Material check and non-destructive tests on pipe joints



# Audit Inspection of plumbing works in MiC factory

Fire Services Department Staff Quarters at Pak Shing Kok

- Audit check on supervision personnel
- Audit check on plumbing works constructed at MIC factory



# Detail application procedures

## Commissioning

- approval would be given to the plumbing works by WA subject to:
  - satisfactory result of interim inspection at MiC factory by the WSD Inspection Agent
  - satisfactory result of final inspection by the WSD at building site
  - compliance with the commissioning requirements specified by WA

# Submission requirements and approval workflow for MiC

WSD will review the procedures from time to time with reference to the

- development in the adoption of MiC method in Hong Kong and
- the experience gained in implementing the procedures

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