

28 February 2019

Yau Lee Wah Concrete Precast Products Company Limited
(有利華建築預製件有限公司)
10/F, Tower 1, Enterprise Square,
9th Sheung Yuet Road,
Kowloon Bay, Hong Kong

Dear Sir/Madam,

Letter of In-principle Acceptance
(Acceptance Reference No.: MiC 1/2019)

This letter is issued to **Yau Lee Wah Concrete Precast Products Company Limited** (有利華建築預製件有限公司) to confirm that the Modular Integrated Construction (MiC) system (Model No. **Concrete MiC 1.0**) as submitted to the Buildings Department (BD) is acceptable in principle for use in private building projects in Hong Kong in respect of the performance aspects listed in Appendix I, subject to the following conditions:

- (i) The design and construction of any building project adopting the above MiC system shall comply with the provisions of the Buildings Ordinance (BO) and its subsidiary legislations;
- (ii) The conditions as set out in Appendix II and Appendix III shall be complied with;
- (iii) The modular units of the above MiC system shall be fabricated in the factories listed in Appendix IV with a valid ISO 9000 or equivalent quality assurance certification; and
- (iv) This in-principle acceptance (IPA) is subject to a validity period expiring on 28 February 2024.

2. General information of the MiC System (Model No. Concrete MiC 1.0) submitted by Yau Lee Wah Concrete Precast Products Company Limited (有利華建築預製件有限公司) is available on BD's website.

/3. ...

3. This IPA shall not be construed as an exemption from obtaining prior approval and consent from the Building Authority under the BO before commencement of building works.

4. This IPA does not give any warranties, explicit or implied, regarding their availability, efficacy, fitness for a particular purpose, title or non-infringement of copyright. The manufacturer/supplier/user must ensure that the above MiC system is safe for public use and complies with all relevant legislation and statutory requirements at all times.

Yours faithfully,



(WONG Nga-ling)
Chief Officer/Technical Services
for Director of Buildings

c.c. HO Hin-ngai (Authorized Person)
NG Siu-kee William (Registered Structural Engineer)
c/o Ho & Partners Architects Engineers & Development Consultants Ltd.
1/F, Block C, Sea View Estate,
8 Watson Road,
North Point, Hong Kong

BD/MiC/180801(S)

**Applicable Performance Aspects
for In-principle Acceptance Reference No. MiC 1/2019**

The in-principle acceptance covers the following performance aspects of MiC system (Model No. Concrete MiC 1.0) of Yau Lee Wah Concrete Precast Products Company Limited (有利華建築預製件有限公司) under the Buildings Ordinance (BO) and its subsidiary legislations:

- (a) Provisions of means of escape required under Part B of the Code of Practice for Fire Safety in Buildings 2011 (FS Code) and regulation 41(1) of Building (Planning) Regulations (B(P)R);
 - (b) Provisions for fire resisting construction required under Parts C and E of the FS Code and regulation 90 of Building (Construction) Regulations (B(C)R);
 - (c) Construction of external wall pursuant to regulation 38 of B(C)R;
 - (d) Height of storeys, provisions of natural lighting and ventilation required under regulations 24, 30 and 36 of B(P)R;
 - (e) Sanitary provisions and associated drainage works within the modular units pursuant to Building (Standards of Sanitary Fitments, Plumbing, Drainage Works and Latrines) Regulations;
 - (f) Structural performance for loads required under Code of Practice on Wind Effects in Hong Kong 2004, Code of Practice for Dead and Imposed Loads 2011 and Part III of B(C)R; and
 - (g) Provisions for structural performance required under Code of Practice for Structural Use of Steel 2011, Code of Practice for Structural Use of Concrete 2013, Code of Practice for Precast Concrete Construction 2016 and B(C)R.
2. For other performance aspects of the MiC system under the purview of the BO not listed above, compliance with the provisions of the BO and the subsidiary legislations shall be demonstrated when plans are submitted for approval under the BO.

**Acceptance Conditions (Building)
for In-principle Acceptance Reference No. MiC 1/2019**

The in-principle acceptance (IPA) of MiC system (Model No. Concrete MiC 1.0) of Yau Lee Wah Concrete Precast Products Company Limited (有利華建築預製件有限公司) is subject to the following conditions:

- (a) This IPA is confined to adopting the MiC system for domestic use in a building not exceeding 18 storeys (maximum modular units of 17 storeys) as applied for;
- (b) The design and construction of the MiC system should follow the plans accepted by the Buildings Department (accepted plans) and tally with the testing criteria of the submitted test reports. If alternative designs, materials or construction methods different from that shown in the accepted plans are used, compliance with the relevant provisions under the Buildings Ordinance (BO) and the subsidiary legislations should be demonstrated when plans are submitted for approval under the BO;
- (c) Applicant and AP should observe the requirements under Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers APP-13 on submission of Schedule of Building Materials and Products and certifying the compliance with the relevant provisions of the BO upon completion of works; and
- (d) User manual with maintenance and building safety instructions for future fitting, decoration, alterations and additions of the modules as submitted with the application for IPA should be provided to the owners/occupants/users of the building adopting this MiC system.
- (e) The IPA is subject to the grant of exemption/modification under section 42 of the BO for the following which would be favorably considered when relevant plans are submitted for approval under the BO:

BO/Building Regulations	Description
Regulation 29(1) and 29(2) of Building (Standards of Sanitary Fittings, Plumbing, Drainage Works and Latrines) Regulations	To permit the provision of cleaning access to be other than cleaning eye

Regulation 44(4) of Building
(Standards of Sanitary Fitments,
Plumbing, Drainage Works and
Latrines) Regulations

To permit protection of cast iron
pipes to be other than asphaltic
coating

Regulation 50(2) of Building
(Standards of Sanitary Fitments,
Plumbing, Drainage Works and
Latrines) Regulations

To permit jointing of cast iron pipes
to be other lead caulking

**Acceptance Conditions (Structural)
for In-principle Acceptance Reference No. MiC 1/2019**

The in-principle acceptance (IPA) of MiC system (Model No. Concrete MiC 1.0) of Yau Lee Wah Concrete Precast Products Company Limited (有利華建築預製件有限公司) is subject to the following conditions:

- (a) The design and construction of MiC system should follow the plans accepted by the Buildings Department (accepted plans) and tally with the testing criteria of the submitted test reports. If alternative designs, materials, proprietary products or construction methods different from that shown in the accepted plans are used, compliance with the relevant provisions under the Buildings Ordinance (BO) and the subsidiary legislations should be demonstrated when future plans are submitted for approval under the BO;
- (b) The MiC system is accepted based on the assumptions listed below. Overall stability, structural analysis, adequacy of structural member and/or structural connections, lateral deflection etc. should be checked when there are any deviations with future structural plans submitted for approval under the BO.
 - (i) Maximum building height from Ground Floor of 52m;
 - (ii) Maximum modular units of 17 storeys;
 - (iii) Maximum design wind pressure of 3.37kPa (unfactored);
 - (iv) Imposed loads, superimposed loads and assumed façade loads as shown on drawing no.: FP001. Imposed loads for vehicular traffic and parking are not considered;
 - (v) Lateral stability is provided by structural wall as shown on drawing no.: FP001 together with the floor slab as a rigid diaphragm;
 - (vi) Fabrication and installation tolerances of modular units as shown on drawing no.: DD001; and
 - (vii) No modular units are stacked more than one-storey above the completed level of each zone as shown on drawing no.: CS001.
- (c) Structural details of in-situ part (core-walls at lift and staircase), precast gable end walls (as shown on drawing no.: FP002), semi-precast slabs and roof floor slab are not included in this acceptance.

Manufacturer and Prefabrication Factory

Details of the accepted manufacturer and prefabrication factory for fabrication of the modular units under In-principle Acceptance reference no. MiC 1/2019 for MiC system (Model No. Concrete MiC 1.0) of Yau Lee Wah Concrete Precast Products Company Limited (有利華建築預製件有限公司) are as follows:

Manufacturer: Yau Lee Wah Concrete Precast Products Company Limited
(有利華建築預製件有限公司)

Address of Prefabrication Factory: Hong Tian Village Xin Xu Town
Hui Yang District Huizhou Guangdong
People's Republic of China
(中國廣東省惠州市惠陽區新圩鎮紅田村
有利華建築預製件公司)

Remarks:

- (a) *The above factory shall maintain a valid ISO 9000 or equivalent quality assurance certification at all times.*
- (b) *The following items in the Quality Assurance Scheme are for information only. Updated information should be submitted for future building projects with MiC.*
 - (i) *Frequency and extent of inspection by in-house staff and independent parties required in Appendix B of PNAP ADV-36; and*
 - (ii) *Frequency and extent of audit by in-house staff and independent parties required in Appendix B of PNAP ADV-36.*