Singapore Healthcare Management 2017

KK Women's and Children's Hospital
SingHealth

KKH Facilities Development
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Railing Safety

Introduction

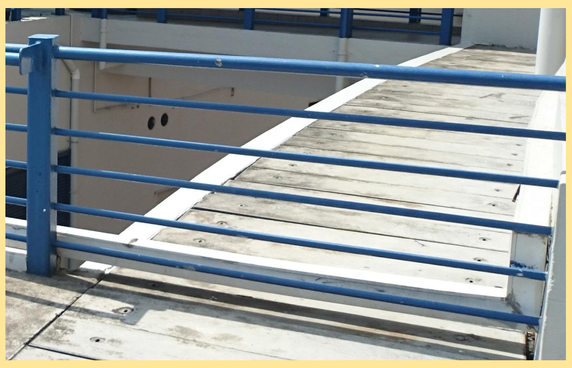
The existing link-bridges behind the level 1 main food court were constructed above a service road. These link-bridges provide the connectivity for staff, patient and visitor between KKH building and the public bus-stop. However, the existing railings of the link-bridges were installed with horizontal balustrade. These potentially serves as climbing bars for the children and exposing them to risk of falling from height.

Aim

To prevent the children from climbing over the link-bridge railing and fall off the ledge.

Methodology

PLAN

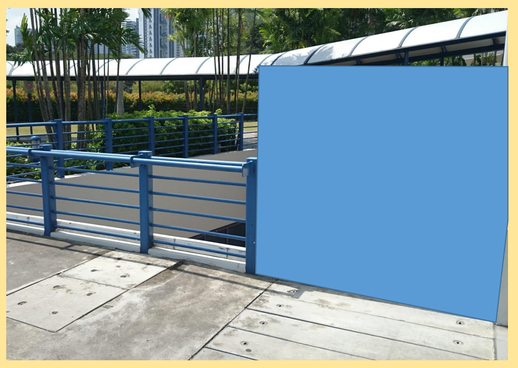


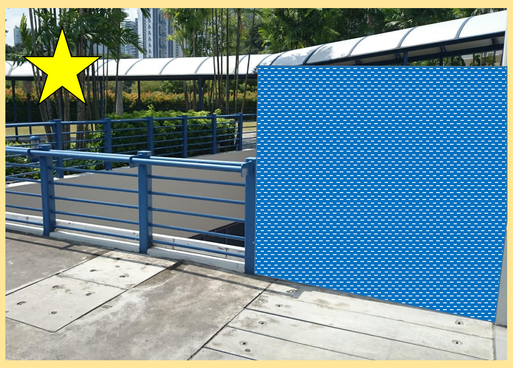
Existing railings were installed with horizontal balustrade. (A potential climbing element for children) The link-bridges over-look the service drive-way at Basement 1. Falling from this height will cause serious injuries. Thus, there is a need to remove this potential hazard.

ACTION

1. Take measurement of existing railing.
2. Explore method to secure and install.
3. Selection of appropriate material.
4. Cordon off the link-bridge during installation.

DO

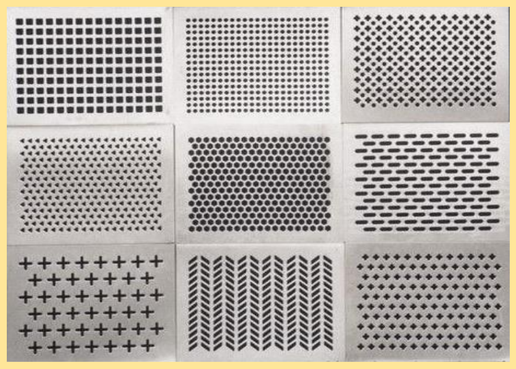


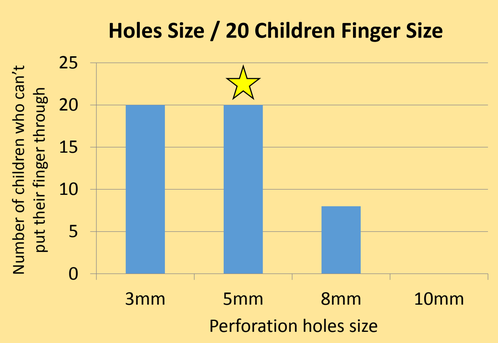


Option 1
To install 1.8m solid panel to cover over existing railing. To prevent the children from reaching the horizontal bars. But this will make the link- bridges dark.

Option 2
To install 1.8m perforated panel to cover over existing railing. This prevent the children from reaching the horizontal bars. Link-bridges will not be completely dark as light can pass through.

CHECK





Pre-construction risk management and Enterprise Risk Management were conducted. Additionally, there are considerations on the size of the perforated hole.

1. Cleaning concern – Holes cannot be too small or else it will trap dust and difficult to clean.
2. Safety concern – Holes cannot be big where children finger may get stuck in it or too big where children will be able to climb on it.

Result

1. Children are not seen climbing over the railing and playing at the building ledge after the installation.
2. Prevent fall from height which may sustain injury or fatal.

Conclusion

The solution provided a safe and secured link-bridge for use by patient, staff and visitors.