

## Decorative wrought iron grilles

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When defending windows, doors or archways wrought iron grilles or gates might be considered when metal roller shutters, expanding gates or bars are difficult to install or unacceptable because of aesthetics or listing of the building for architectural merit. Where wrought iron designs are contemplated the following guidelines should be followed.

### Construction

#### Windows

- the particular design should not have any gaps greater than 100mm overall.
- for building perimeter applications metalwork should be of 20mm square metal bars, or greater than 20mm square if size and design requires supporting strength.
- infills of 10mm square bars can be used for internal applications within a building providing areas to be infilled are not greater than 250mm overall.
- design must include a complete supporting perimeter frame with appropriate fixing points.
- all parts of the design must be welded together. No bolts or screws must be used.
- the assembly must be let and secured into masonry reveals if at all possible.
- if fixed to wood then the longest possible bolts or screws with security heads must be used. Where bolts are used the threads must be burred over to prevent the nuts from being removed.

#### Doors and archways

- provision for appropriate secure locking facilities will be required for opening gates whilst hinges must be covered or secured when in the closed position. Open type hinges should not be used unless the gate is trapped within the surrounding frame or masonry when closed.