This Guide...

This waterproofing Systems Selector Guide is BituNil's System Selector Guid to show construction details relevant systematic approach to help architects and designers in specifying the right system through a simple process of reaching a particular System Reference that leads to the required roofing/waterproofing system with all its details. All systems included in this Guide are designed in compliance with international standards and codes of practice. 3- Penetrations.

Using This Guide

1- Sections of this Guide

The Applications in this Guide are classified into six main sections, these are:

- Section 1: Roofing Systems Concrete Deck Applications
- Section 2: Roofing Systems Metal Deck Applications
- Section 3: Roofing Systems Wooden Deck Applications
- Section 4: Waterproofing Systems Below Grade Applications
- Section 5: Waterproofing Systems Civil Engineering Applications
- Section 6: Waterproofing Systems Miscellaneous Applications

2- Finding The Right System Reference

Based on the project's mandates the Guide user may follow the instructions below in order to pinpoint the applicable Systems Reference:

- Define whether the application belongs to any of the sections mentioned above.
- Determine additional system conditions and requirements, throughout other levels (Columns) of the Guide in order to reach the required System Reference e.g. "RC 10"
- Through the Systems Reference the user can obtain:
 - System Design Sheet.
 - Standard Construction Details.
 - Drop-In Specifications.

3- System Design Sheet

The System Design Sheet is a single sheet that contains all the information on system components in isometric presentation with all technical considerations on the front side, and system engineering drawing on the back side.

4- Standard Construction Details

the Standard Construction Details is annexed to this to each waterproofing system. The Construction Details are classified into six main groups:

- 1- Roof Drains.
- 2- Expansion Joints.
- 4- Terminations.
- 5- Special Details.
- 6- General Details.

Each of the Construction Details has an indication to the relevant Systems Reference.

5- Drop-In Specifications

The Drop-In Specifications suggests a drafting for specifications of Roofing and Waterproofing including proposed Schedule Of Workers.

 For System Specifications and Schedule Of Workers details contact the Marketing Services Division at BituNil.

GLOSSARY & DEFINITIONS

The user of this Guid may refer to the definitions listed below that explain the meaning of the technical abbreviations and terms used in the Guide:

MBM Waterproofing System

Waterproofing systems applied using Modefied Bitumen Membranes.

Accessible Roof

Roofs designed for regular use by building occupants such as the case in residential buildings.

Roofs designed only for maintenance or no traffic such as the case in hospitals, office bulldings and factories.

Protected System

The waterproofing membrane is not the final layer.

Exposed System

The waterproofing membrane is the final layer with self protection.

Inverted Roofing Membrane Assembly (I.R.M.A)

The waterproofing membrane is placed below the thermal

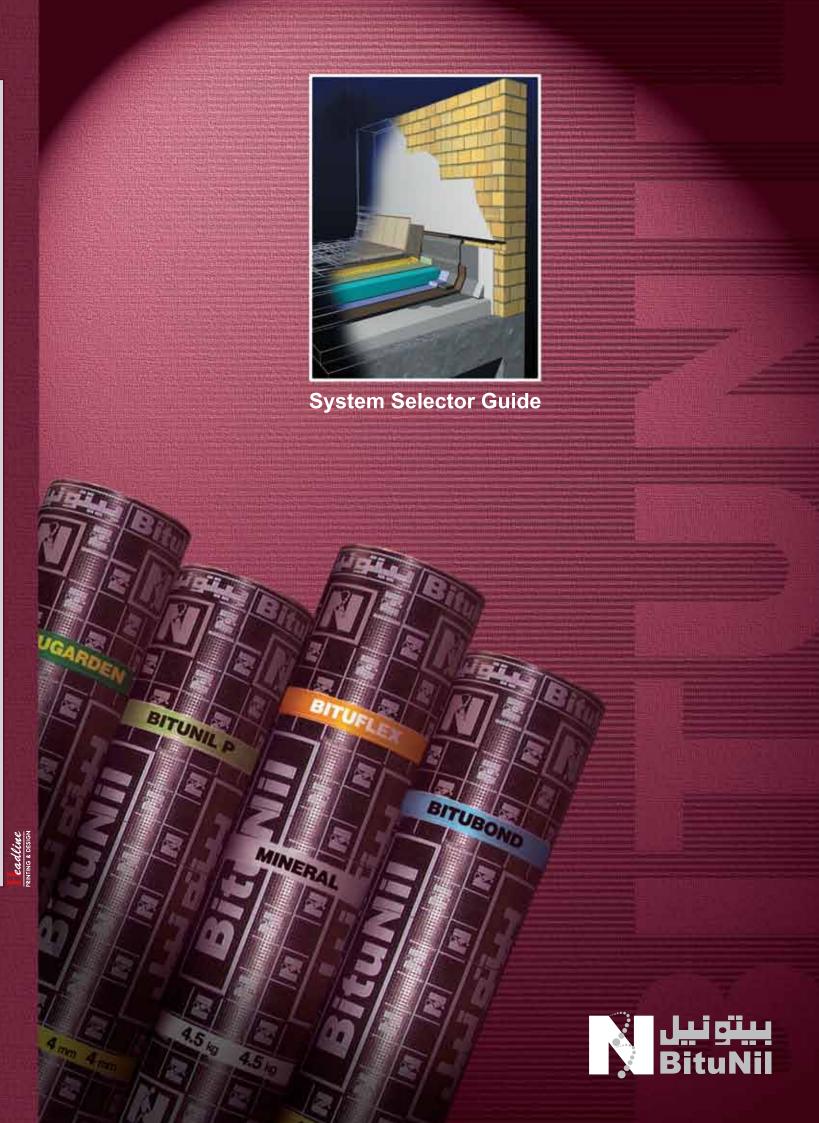
Conventional Roofing System

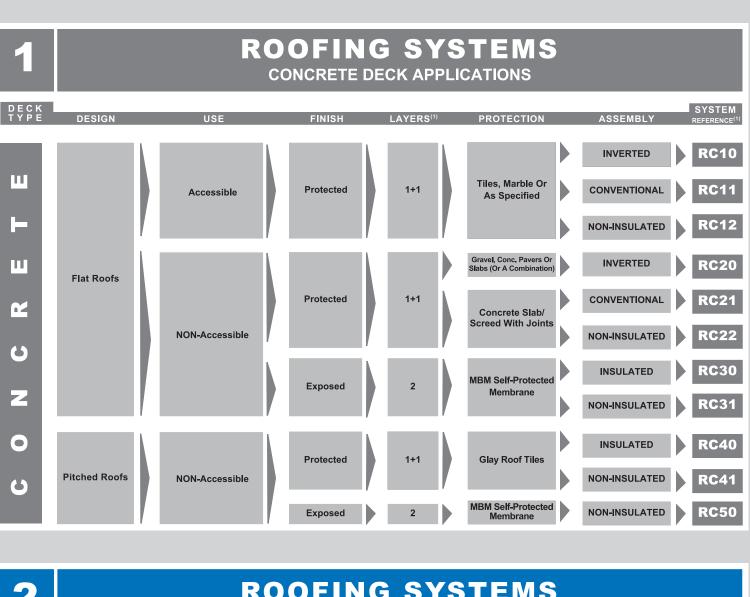
The waterproofing membrane is placed above the thermal

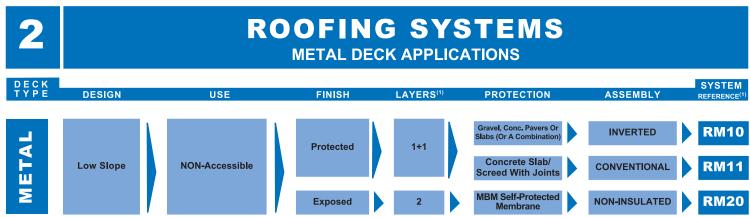
BituNil Technical Support Services

BituNil can carry out, upon request, design, specification and detailing works for projects' particular waterproofing applications. BituNil offers all system drawings and construction details in soft format on floppy discs and compact discs.













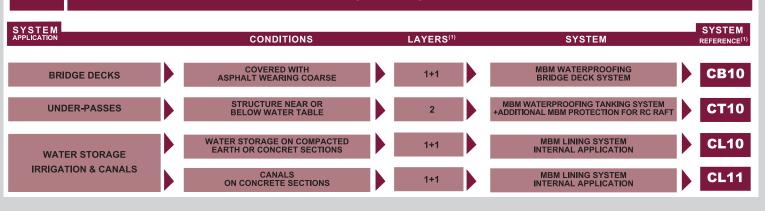
BELOW GRADE APPLICATIONS





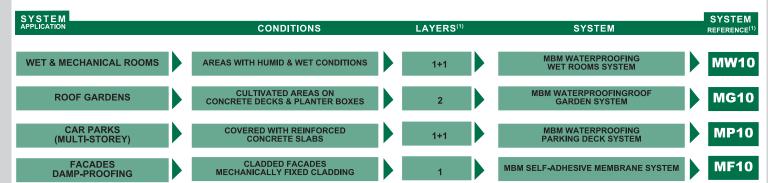
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Civil Engineering Applications



WATERPROOFING SYSTEMS

Miscellaneous Applications





⁽²⁾ System Reference: Use the Selected System Reference to find the applicable Standard Construction Details, specs and B.O.Q for the same System.



⁽³⁾ For Systems: UF10, UF11 & UF12, slab on grade is protected by a layer(s) of Modified Bituminous Membrane.