

AQUA STEEL® WB+

SPECIFICATION

INTRODUCTION

The “Zero flame Range” stands for “Fire Protection Simplified” and **AQUASTEEL WB+** is no exception.

In a single product are combined the virtues of water borne technology, simplified coverage rates and efficient fire protection.

DESCRIPTION

AQUASTEEL WB+, replacing Aquasteel 30 and 60, provides up to 1 hour fire resistance on all standard steel sizes and profiles. It can be applied by conventional methods and does not require specialist equipment.

AQUASTEEL WB+ is suitable for use in environmentally stable, dry internal locations without a sealer coat. In areas subject to wetting or severe condensation or where a coloured finish is required, a compatible top seal should be applied.

AQUASTEEL WB+ is white and is supplied in 10, 5 and 2.5 litre containers, each of which is labelled with full instructions, including a Certificate Application Form. Certificates should always be obtained to authenticate the application and fire rating of the product at each site where it is used.

SPECIFICATION

Priming: Structural steel should always be prepared and primed with an anti-corrosion primer, preparation being to the primer manufacturer’s specification. The choice of primer is dependent on the environmental conditions applying on the site. Most anti-corrosion primers are compatible with **AQUASTEEL WB+**, with the following exceptions:

Chlorinated Rubber
Thermoplastic
Bitumen based

AQUASTEEL WB+ may be applied over galvanising, zinc rich or zinc powder primers provided a suitable tie coat is first applied.

To provide a suitable base for **AQUASTEEL WB+**, primers should not exceed 100 microns dry film thickness.

SPECIFICATION cont....

When specifying **AQUASTEEL WB+**, choose a relevant clause from the following options:

30 Minutes Fire Resistance

- I. To achieve 30 minutes fire resistance on I section steel being **horizontal beams exposed on 3 sides or less** apply **AQUASTEEL WB+ Intumescent Coating** at a theoretical coverage rate of 3.0m²/litre to achieve a dry film thickness of 0.23mm.
- II. To achieve 30 minutes fire resistance on I section steel being **horizontal beams exposed on all sides or vertical columns** apply **AQUASTEEL WB+ Intumescent Coating** at a theoretical coverage rate of 2.3m²/litre to achieve a dry film thickness of 0.30mm.
- III. To achieve 30 minutes fire resistance on **square or rectangular hollow section steel** apply **AQUASTEEL WB+ Intumescent Coating** at a theoretical coverage rate of 1.2m²/litre to achieve a dry film thickness of 0.63mm.
- IV. To achieve 30 minutes fire resistance on **circular hollow section steel** apply **AQUASTEEL WB+ Intumescent Coating** at a theoretical coverage rate of 0.4m²/litre to achieve a dry film thickness of 1.68mm.

60 Minutes Fire Resistance

- I. To achieve 60 minutes fire resistance on I section steel being **horizontal beams exposed on 3 sides or less** apply **AQUASTEEL WB+ Intumescent Coating** at a theoretical coverage rate of 1.2m²/litre to achieve a dry film thickness of 0.63mm.
- II. To achieve 60 minutes fire resistance on I section steel being **horizontal beams exposed on all sides or vertical columns** apply **AQUASTEEL WB+ Intumescent Coating** at a theoretical coverage rate of 0.5m²/litre to achieve a dry film thickness of 1.28mm.
- III. To achieve 60 minutes fire resistance on **square, rectangular or circular hollow section steel** apply **AQUASTEEL WB+ Intumescent Coating** at a theoretical coverage rate of 0.4m²/litre to achieve a dry film thickness of 1.68mm.

If a finish coat is required (Consult Decor Ireland for details of suitable Finishes)

Apply Finish Coat in 1 or 2 coats, depending on the colour, at a theoretical coverage rate of 8-10m²/litre on fully cured AQUASTEEL WB+ Intumescent Coating.

Notes:

The above specifications relate to structural steel having the following minimum thicknesses:

| Section | Flange/Wall Thickness | Hp/A |
|---|---------------------------------|--------------------------|
| <i>Universal Beams 3 sided</i> | <i>Flange Thickness - 7.6mm</i> | <i>300m⁻¹</i> |
| <i>Universal Columns + 4 sided Beams</i> | <i>Flange Thickness - 6.8mm</i> | <i>300m⁻¹</i> |
| <i>Hollow Sections (½ Hour)</i> | <i>Wall Thickness - 4.0mm</i> | <i>300m⁻¹</i> |
| <i>Rectangular Hollow Sections (1 Hour)</i> | <i>Wall Thickness - 6.0mm</i> | <i>205m⁻¹</i> |
| <i>Circular Hollow Sections (1 Hour)</i> | <i>Wall Thickness - 8.0mm</i> | <i>140m⁻¹</i> |

For thinner / lighter members, please consult Decor Ireland.

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