

Compatibility of Materials in Contact

EXTERNAL MOISTURE

Acceptable Solution E2/AS1

Table 21: Compatibility of materials in contact

This table shall be read in conjunction with Table 20 and Table 22. Refer relevant *cladding* and *flashings* paragraphs for material and coating specifications. Paragraphs 2.2, 4.2.2, 4.5.2, 8.2.4, 8.4.11, 8.4.11.1 and 9.6.7

Amend 5
Aug 2011

| | Aluminium, anodised or mill-finish | Aluminium, coated (1) | Butyl rubber & EPDM | CCA-treated timber (2) | Cedar | Cement plaster (uncoated) | Ceramic tiles (cement grout) | Clay bricks (cement mortar) | Concrete old (unpainted) | Concrete green (unpainted) | Copper/brass | Glass | Glazed roof tiles | Lead (including lead-edged) unpainted | Plastics | Stainless steel | Steel, galvanised coil-coated | Steel, galvanized (unpainted) | Zinc | Zinc-aluminium-magnesium (combinations), coated (1) | Zinc-aluminium-magnesium (combinations), (unpainted) |
|---|------------------------------------|-----------------------|---------------------|------------------------|-------|---------------------------|------------------------------|-----------------------------|--------------------------|----------------------------|--------------|-------|-------------------|---------------------------------------|----------|-----------------|-------------------------------|-------------------------------|------|---|--|
| Aluminium, anodised or mill-finish | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ✓ | B | ✓ | ✓ | ✓ | ✓ | ✓ |
| Aluminium, coated (1) | ✓ | ✓ | ✓ | B | ✓ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ | ✓ | ✓ | B | ✓ | B | ✓ | ✓ | ✓ | ✓ | ✓ |
| Butyl rubber & EPDM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CCA-treated timber (2) | ✗ | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | B | ✗ | ✗ | B | ✗ |
| Cedar | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| Cement plaster (uncoated) | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ |
| Ceramic tiles (cement grout) | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ |
| Clay bricks (cement mortar) | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ |
| Concrete old (unpainted) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Concrete green (unpainted) | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Copper/brass | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | B | ✓ | B | ✗ | ✗ | ✗ | ✗ | ✗ |
| Glass | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Glazed roof tiles | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lead (including lead-edged) unpainted | ✗ | B | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | B | ✓ | ✓ | ✓ | ✓ | B | B | B | B | B | ✗ |
| Plastics | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Stainless steel | B | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | B | ✓ | B | ✓ | ✓ | B | ✗ | ✗ | B | B |
| Steel, galvanised coil-coated | ✓ | ✓ | ✓ | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | B | ✓ | B | ✓ | ✓ | ✓ | ✓ | ✓ |
| Steel, galvanized (unpainted) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | B | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Zinc | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | B | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Zinc-aluminium-magnesium (combinations), coated (1) | ✓ | ✓ | ✓ | B | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | B | ✓ | B | ✓ | ✓ | ✓ | ✓ | ✓ |
| Zinc-aluminium-magnesium (combinations) (unpainted) | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ✓ | B | ✓ | ✓ | ✓ | ✓ | ✓ |

Amend 6
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LEGEND:

- ✓ Materials satisfactory in contact.
- ✗ Contact between materials is not permitted. Minimum gap of 5 mm is required to prevent moisture bridging.
- B Avoid contact in sea-spray zone or corrosion zone D.

NOTES:

- (1) Coated – includes factory-painted, coil-coated and powder-coated.
- (2) Includes copper azole and copper quaternary salts.

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Amend 2
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