DETAIL 'A'

TYPICAL SMALL STRUCTURE
SLOPING FLAT OR CURVED ROOF

NOTE:

HYBRID SYSTEM - ONLY AS1766-2007 LIGHTNING PROTECTION STANDARDS
DO NOT REQUIRE PROTECTION TO SMALL STRUCTURES.
ALL COMPONENTS TO BE COMPLIANT WITH AS1766-2007 LIGHTNING
PROTECTION STANDARDS.
ON STRUCTURES WITH STEEL FRAMES/POSTS ENSURE ELECTRICAL
CONTINUITY AT ALL STRUCTURAL JOINTS BY USE OF PENETRATING LOCKING
WASHERS TO BRIDGE ALL NON CONDUCTIVE COVERING/PART MATERIALS.

DETAIL 'B'

ALL ROOFING TYPES
WOOD, STEEL, POLY

ATTACH TO INNER SHEET ROOFING BEAMS

POST

OUTSIDE OF POSTS

DETAIL 'C'

EARTH AIR ROD
LOCATE NEAR HIGHEST POINT OF STRUCTURE APPROX. 1.5M
LONG #15MM ALUMINIUM/STAINLESS STEEL ROD WITH ROOF
MOUNTING PLATE, SECURELY MOUNT TO STRUCTURAL BEAM.
WEATHER SEAL ALL ROOF PENETRATIONS WITH 20 YEAR
GUARANTEE SILICONE TYPE MATERIAL

STRUCTURES WITH STEEL FRAMES/POSTS TO INCLUDE USE
OF PENETRATING LOCKING WASHERS TO BRIDGE ANY NON
CONDUCTIVE COVERING/PART MATERIALS AND PROVIDE
ELECTRICAL CONTINUITY

EARTH DOWN CONDUCTOR - ALUMINIUM/STAINLESS STEEL
10mm ROD x 5mm THICK BAR (PREFERRED AS REDUCED
TIE RODS AT SLAB LEVEL OR 12mm CABLE
SECURELY ATTACHED TO SIDE OF RAFTERS AND POST, AT
APPROX. 300mm INTERVALS.
USE SELF TAPPING/SCREWING SCREWS (CABLE SADDLES)
INTO BEAMS AND POSTS OF SUITABLE LENGTH TO PROVIDE
ROBUST CONNECTION (PENETRATION INTO STRUCTURAL
ELEMENTS - 10mm STEEL, 20mm WOOD).
DOUBLY SEARTE AT CORNERS AND BENDS.

SMALL EARTH PIT - POLY/PVC (INSPECTION TEST POINT)
200mm x 200mm x 200mm DEEP
MECHANICALLY SECURED TO (MIN. 2 CORNERS) WITH S/S
CORNER LOCKING SCREWS.

DRIVEN EARTH SHANK
STAINLESS STEEL, #15MM BAR x 3.50M LONG TO
PROVIDE REQUIRED MIN TO OHM EARTH CONDUCTIVITY.

DETAIL 'D'

REFER DETAIL 'D'

ALL ROOFING TYPES
WOOD, STEEL, POLY

UNDER POST ATTACHED TO ROOFING BEAMS

POST

TYPICAL SMALL STRUCTURE
PEAKED ROOF

NOTE:

STEELWORK PAINTED TO MATCH EXISTING
SHELTER'S COLOUR SCHEME

BSD - TYPICAL COMPONENT LIST - (TIEGEL OR THOMPSON LIGHTING SYSTEMS)
STAINLESS STEEL/ALUMINIUM SYSTEM (REDUCE RISK OF COPPER THEFT)

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>AIR ROD WITH BASE</td>
<td>1</td>
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<tr>
<td>GROUNDING DOWN CONDUCTOR</td>
<td>9m</td>
</tr>
<tr>
<td>EARTH PIT/WELL</td>
<td>1</td>
</tr>
<tr>
<td>GROUNDING ROD CLAMP</td>
<td>1</td>
</tr>
<tr>
<td>GROUNDING ROD</td>
<td>1</td>
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</tbody>
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(LENGTH AS REQUIRED BY SOIL TYPE PROVIDE 100OMS OR LESS EARTH RESISTANCE)