Technical notes for roof drainage systems

1. Installation:
1.1 All roof drainage systems for the main drainage and emergency drainage have to be properly built in, secured in position and fit into the solid by the bidder. The required insulation material and the installation of the drain in the roof are to be included in the unit price.

1.2 The installation must be carried out strictly in accordance with the installation manuals of the supplier of the roofing system and the manufacturer of roof drainage system.

1.3 The installation instructions and data sheets have to be given to the user or the building owner (Protocol). The expenses in connection therewith are to be included in the unit price.

2. Technical equivalence: Only absolutely comparable, tested systems are permitted. The exchange of individual system components is not permitted (see section 3).

2.1 Equivalence of system performance:
- At least same discharge rate in liters per second
- Maximal head of water needed on the roof
- Same depth of roof penetration of the drain
- Proof of performance for spouts or with pressure-tight downpipe acc. Standard

2.2 Equivalence of system shape and material:
- The complete system is unbreakable, impact resistant, UV-resistant and weatherproof
- The entire system is installable with push-fit sockets
- The complete system is backpressure resistant up to 0.5 bar
- Internal coating quality on the basis of a two-component epoxy combination

3. Alternative solutions: If the roof drainage system is offered „alternative“ by the bidder, or parts of the roof drainage system should be replaced, the contractor has to provide the hydraulic calculation according to DIN EN 12056-3 in conjunction with DIN 1986-100, VDI 3806. The expenses in connection therewith are to be included in the unit price. Offered alternative solutions have to fulfill all technical requirements in accordance with step „2. Technical equivalence“.

4. Testing: All roof drainage systems have to be tested to fit to the building at the building site. Construction related concerns should be reported immediately.

5. Maintenance: All roof drainage systems have to be maintained in accordance with DIN 1986, part 30 in 1/2-year- intervals! The associated maintenance contract has to be offered separately.