



ZTV-W

Additional Technical Terms of Contract - Hydraulic Engineering
for

Landscaping Performance Category 207

November 2025 edition

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NB:

Notified in accordance with Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services (OJ L 241, 17.9.2015, p. 1).



Bundesanstalt für Wasserbau
Kompetenz für die Wasserstraßen

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und Stadtentwicklung**

ZTV-W

Additional Technical Terms of Contract - Hydraulic Engineering

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Preliminary remark

The numbers in brackets after the section headings refer to the 'General technical specifications in construction contracts (ATV) – Landscape works – DIN 18320'.

Products from other European Union Member States or from Turkey, as well as goods originating from an EFTA Member State which is a party to the Agreement on the European Economic Area, which do not conform to these Additional Technical Terms of Contract, shall be deemed compliant, including the tests, inspections and certifications conducted in the country of manufacture, if the required level of protection (in terms of health, safety and fitness for purpose) is achieved in an equally permanent manner.

1 Scope (re: point 1)

(1) The Additional Technical Terms of Contract – Hydraulic Engineering for Landscaping (Performance Category 207), citation ZTV-W LB 207, apply only to landscaping works and biological engineering reinforcement construction works on waterways, dykes, dams and coastal dunes.

(2) For the biological engineering reinforcement construction works to be specified, ZTV-W LB 210 applies to embankment and streambed protection.

2 Materials, components, plants and parts of plants (re: point 2)

2.1 Soil improvers (re: point 2.1)

(3) For soil improvers that are delivered loose or in unlabelled or not in original sealed packaging, proof of quantities must be provided upon request. Only quality-controlled substances may be used. The proof of quality must be provided to the client on request.

2.2 Plants (re: point 2.2)

(4) The contractor must notify the client of the delivery of the plants at least three working days in advance.

2.3 Grass, herb and leguminous seed

(5) Only woody plants and seeds (grass, herb and legume seeds) from the respective areas of origin shall be used.

(6) The contractor shall notify the client of the delivery of the seed at least three days in advance.

(7) The delivery must be made in the original packaging in bags that comply with the Seed Marketing Act and the Seed Mixture Ordinance.

3 Execution (re: point 3)

3.1 Soil works (re: point 3.4)

(8) Top soil works shall be carried out taking into account the soil and weather conditions.

(9) Embankment areas that are secured by means of biologically engineering may not be driven on when the topsoil is applied.

(10) Woody plants and parts of woody plants (cuttings, logging residues, stumps) may not be mixed into the topsoil, even if they have been shredded (chopped material).

3.2 Planting works (re: point 3.5)

(11) If a staking has been agreed, the planting sites of the standard trees and individual woody plants and the boundaries of the area and group plantings must be clearly marked by the contractor by means of different stakes before the planting work begins. Planting works may not begin until the client has checked the staking and corrected it if necessary.

(12) After the end of the frost period and after the end of flooding, the planting must be checked. Frozen, washed out and inclined plants shall be put back in position and pressed in again.

(13) Inclined piles in flooding areas shall be set in such a way that the pile head points upstream against the direction of flow.

(14) Plants may only be cut back after examination by the client and shoots may not be crushed or cut off.

- If standard trees are to be cut, care must be taken to ensure that a good, continuous leader is maintained.
- Large woody plants should be thinned out while preserving their natural growth form.
- Shrubs should generally be cut back by about a third, while light shrubs and young plants should be cut back by about half. Young plants of all tree species are not to be pruned.

(15) Transport and transplanting must be carried out in such a way that no damage is caused to the trunk, crown, root ball or roots. The pointed ends of stakes must not pass through the plant. The lifting of the trees must not be carried out using rope slings on the trunk.

(16) If straw bale planting takes place, a thorough watering must be carried out after the end of the frost period.

(17) If protection from the sun and evaporation is planned for large trees and shrubs, this must be put in place immediately after planting.

3.3 Plant protection

(18) No herbicides may be used.

(19) Other pesticides may be used only with the consent of the client.

3.4 Completion, development and maintenance work (re: points 3.7 and 3.8)

(20) Until the completion of the construction, development and, if commissioned, maintenance work, the contractor shall also monitor the work performed as regards hazards that are outside the execution of maintenance tasks, e.g. due to drought or pest infestation.

(21) The maintenance and control operations, as part of the completion, development and maintenance work, must be agreed with the client. Written notice of the date must be given at least one week in advance.

(22) Plantings must be monitored by the contractor with regard to their water supply. If irrigation is necessary, appropriate measures must be agreed with the client.

3.5 Control checks/acceptance

(23) Notwithstanding DIN 18916, the following shall be deemed to have been done at the time of acceptance:

Standard trees, single trees and woody plants in isolated positions, if at least two thirds of the crown or branches show signs of sprouting or are in sap.

(24) The number of plants that have not grown is determined by counting:

- in the case of standard trees, solitary woods and woody plants in individual positions, all woody plants shall be tested and counted.
- in the case of group plantings, the test is carried out on sub-areas that are representative of the growth results. Sub-areas should correspond to the location of at least 100 plants.

(25) The client and the contractor shall jointly select sub-areas for the inspection. If no agreement can be reached on the number and selection of sub-areas, a total count shall be carried out.

(26) Standard trees, single trees and woody plants and whips that have not grown must be replaced in full if the lack of growth is attributable to the contractor.

(27) In the case of shrubs, light whips and young plants, it shall not be considered a defect if the loss does not exceed five per cent of the total quantity for reasons for which the contractor is responsible.

(28) If the failures for which the contractor is responsible exceed five per cent of the total quantity, all plants that have not grown must be replaced.

(29) If individual sub-areas have a failure rate of more than twenty five per cent for which the contractor is responsible, the contractor is obliged to replant all failed plants there, even if the average of the failures does not exceed five per cent.

(30) If the failures exceed forty per cent of the total quantity for reasons for which the contractor is responsible, there is a significant defect (§12(3) VOB/B). Acceptance and development maintenance are then postponed by one growing period in each case.

(31) Replanting to remedy deficiencies must be carried out by 30 November of the monitoring exercise. For replanting to remedy deficiencies, the same contractual periods for completion, development and, if commissioned, maintenance apply as for the other failure-free plantings from the date of replanting to remedy the deficiencies. The provision and operation of safety barriers for the entire plantation with failures shall be extended accordingly.

Annex: Compilation of the cited standards re: Terms of delivery and contract

DIN 18320	German construction contract procedures (VOB) - Part C: General technical specifications in construction contracts (ATV); Landscape works
DIN 18915	Vegetation technology in landscaping – Soil working
DIN 18916	Vegetation technology in landscaping – Plants and plant care
ZTV-W LB 210	Additional Technical Contract Conditions – Hydraulic Construction (ZTV-W) for Embankment and slope protections (Performance Category 210)