### B.1.2.2 Complemented template list

The keyword **complement** denotes a list of values that will not be accepted as values (i.e. it is the complement of a template list). It can be used on all values of all types. A complemented value list may also contain templates.

A template field that uses complement matches the corresponding field if and only if the field value does not match any of the values or templates listed in the template list. The template list may be a single value, of course.

Besides specifying individual values, it is possible to add all elements of an existing **record of** or **set of** template into a complement template list using an **all from** clause.

***Restrictions***

a) The type of the complemented template list and the member type of the template in the **all from** clause shall be compatible.

b) The template in the **all from** clause as a whole shall not resolve into a matching mechanism (i.e. its elements may contain any of the matching mechanisms or matching attributes with the exception of those described in the following restriction).

c) Individual fields of the template in the **all from** clause shall not resolve to any of the following matching mechanisms: AnyElementsOrNone, permutation.

d) Each value or template in the list shall be of the type declared for the template field in which the complement is used.

e) The complement of a template list shall not match “omit”.