## SIA - Work Sheet

Date :

## location:

Tree Nr.: $\qquad$ : $\qquad$
Name : $\qquad$


## Dimensions of the tree:

## Exact tree height:

(measured with clinometer - and measuring tape) $=$ distance *(tan upper angle + tan lower angle)
Trunk diameter: (if round: circumferrence / 3,1415)


Crown Shape: (1-4)

## Diagram A

Determine the crown shape and the exact tree height. Look up


## DiagramB

Search calculated diagram B-value on the y-axis and draw line to the curve, from there drop down to the $x$-axis and obtain the basic safety factor of a sound trunk. In case the value is less than $100 \%$, the tree should be crown reduced. This situation often occurs e.g. when surrounding trees were felled. The influence of crown reduction can be
obtained from Diagram D. If the value obtained from diagram is greater than $100 \%$ the tree has safety reserves and may have decay and hollow spots inside. To calculate the residual wall choose diagram C .

## Diagram C

The factor obtained from 100/ diagram B value should be searched on the Horizontal $x$-axis, from there draw line up to curve and search relating point on the $y$-axis. Multiplying the $y$-axis value with the trunk diameter
 delivers the required thickness of the residual wall.


