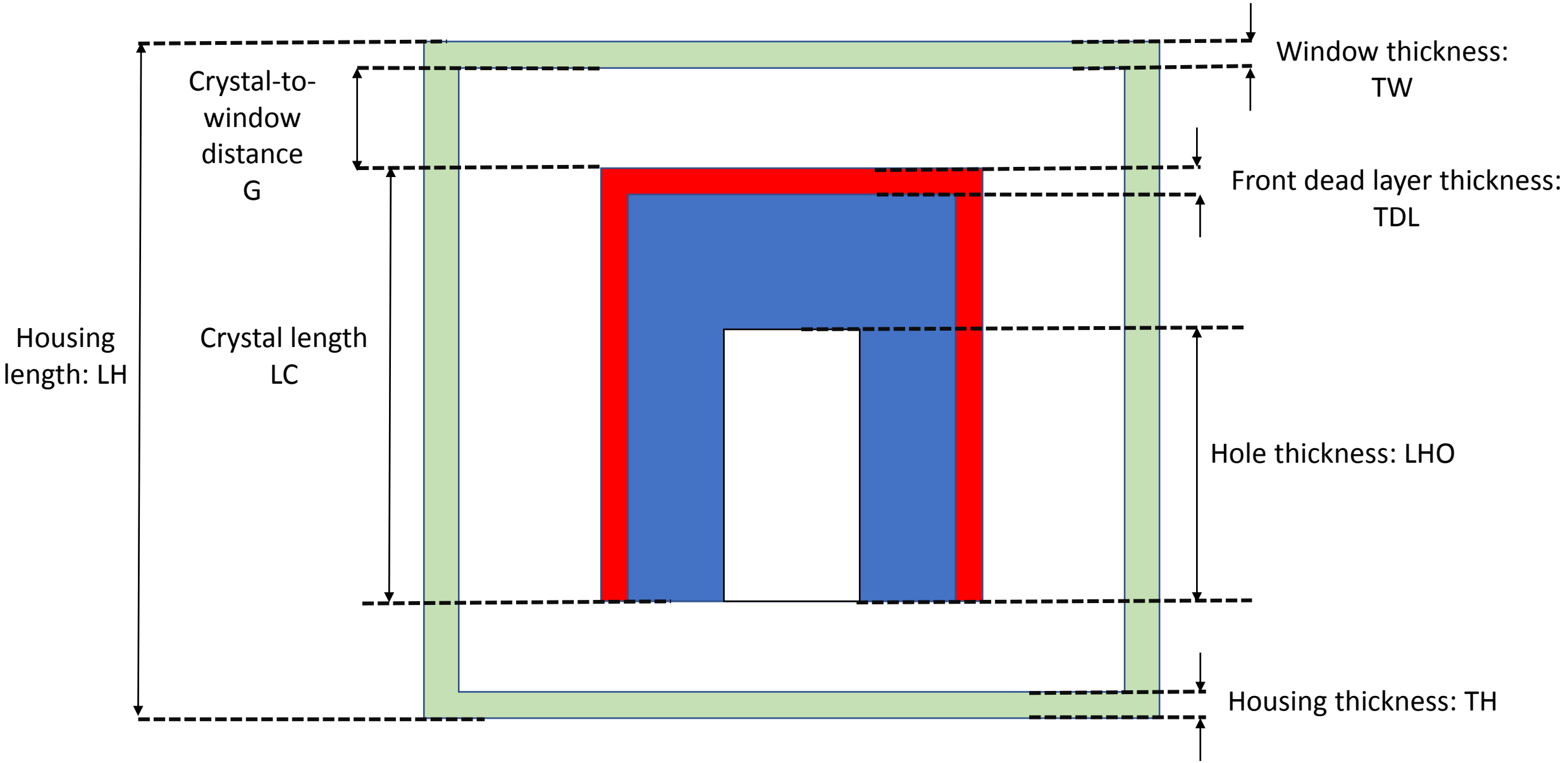
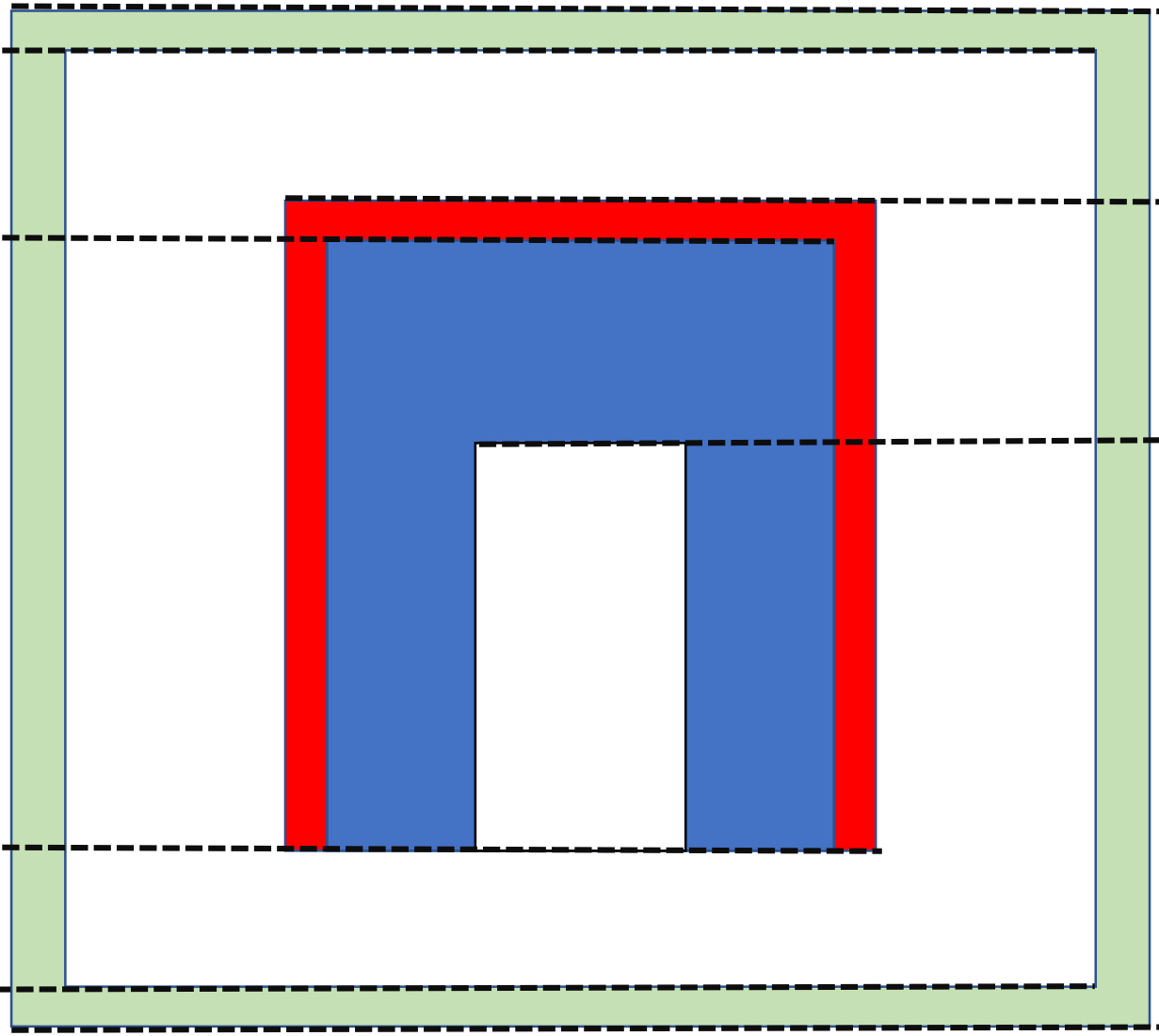

Window thickness: TW
Crystal-to-window distance G
Front dead layer thickness: TDL
Housing length: LH
Crystal length LC
Hole thickness: LHO
Housing thickness: TH



Top of the housing (window)
$Z_0 = 0$
Reference plan

Window bottom
Z1 = Z0 - TW

Top of the front dead layer
Z2 = Z1 - G

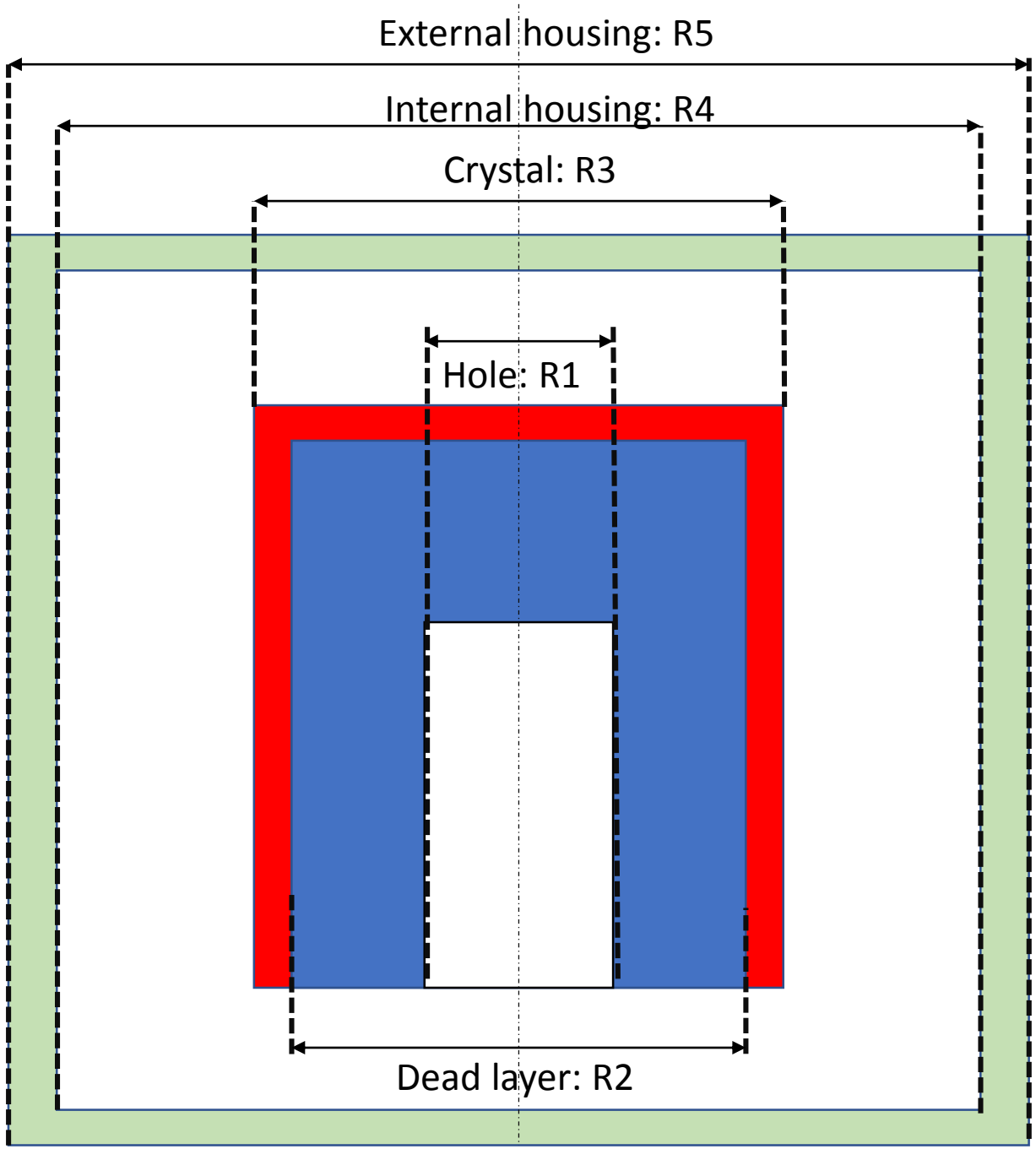
Bottom of the front dead layer
Z3 = Z2 - TDL

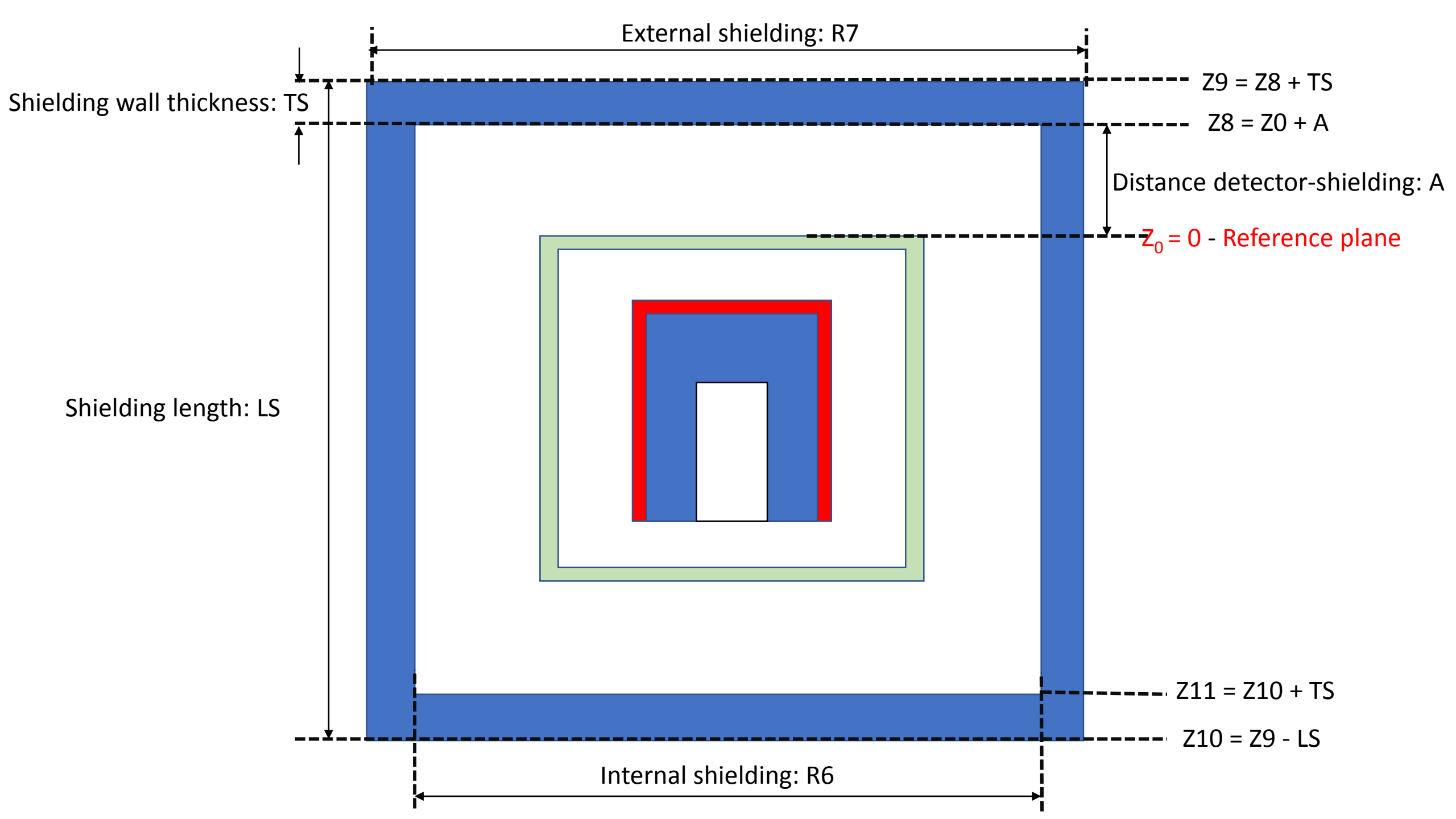
Top of the hole
Z5 = Z4 + THO

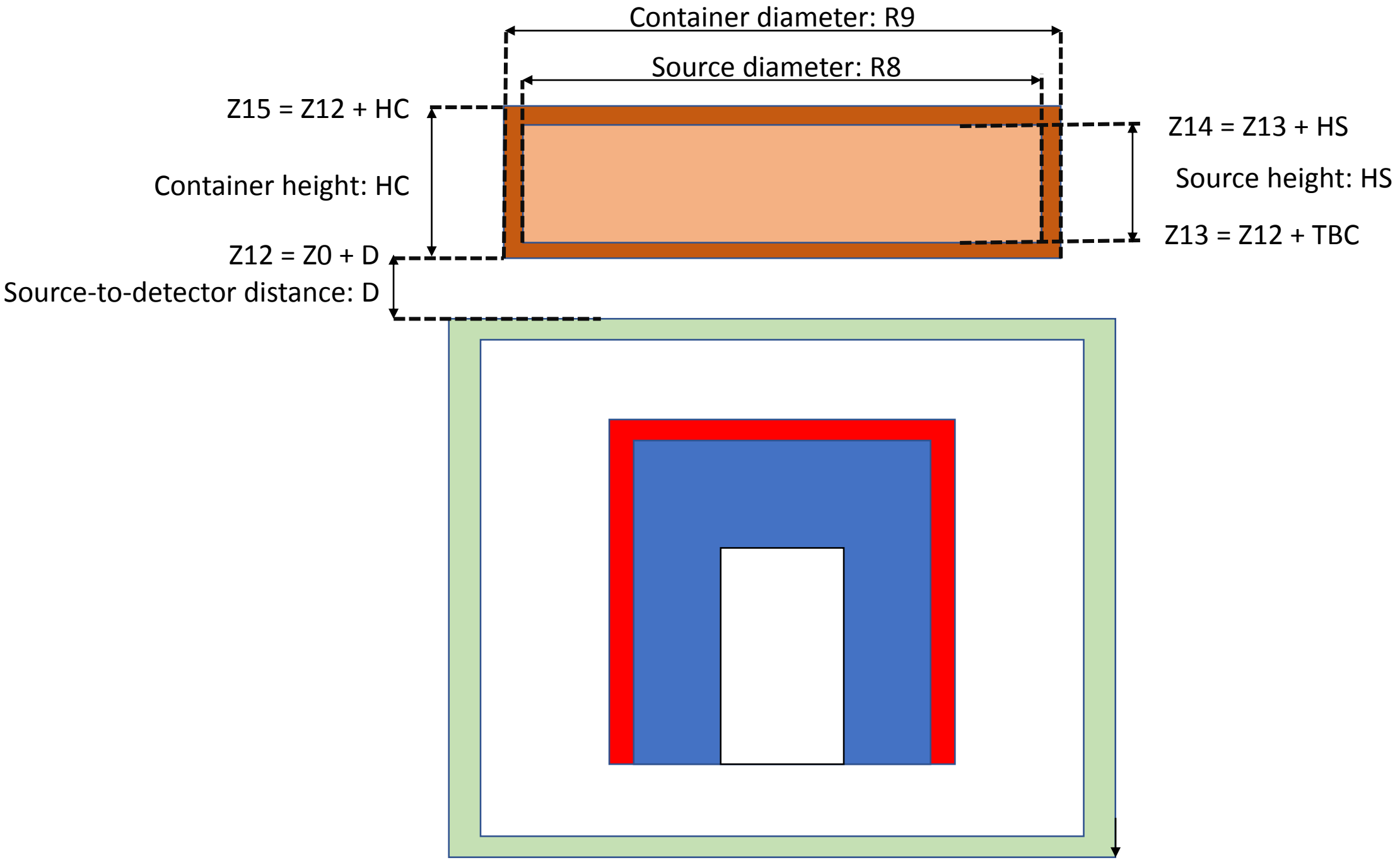
Crystal bottom
Z4 = Z2 - LC

Bottom of the internal housing
Z7 = Z6 + TH

Bottom of the housing
Z6 = Z0 - LH


External housing: R5
Internal housing: R4
Crystal: R3
Hole: R1
Dead layer: R2


External shielding: R7
Shielding wall thickness: TS
Z9 = Z8 + TS
Z8 = Z0 + A
Distance detector-shielding: A
$Z_0 = 0$ - Reference plane
Shielding length: LS
Z11 = Z10 + TS
Z10 = Z9 - LS
Internal shielding: R6


Container diameter: R9
Source diameter: R8
Z15 = Z12 + HC
Container height: HC
Z12 = Z0 + D
Source-to-detector distance: D
Z14 = Z13 + HS
Source height: HS
Z13 = Z12 + TBC

Limiting plans:

Reference plan $Z_0 = 0$ (top of the window)
Window thickness = TW
Cristal-to-window distance = G
Top dead layer thickness = TDL
Cristal length = LC
Hole depth = LHO
External housing height = LH
External housing thickness = TH

Limiting cylinders:

Internal hole: R1
Internal dead layer of crystal: R2
Crystal : R3
Internal housing: R4
External housing: R5

External shielding:

Internal cylinder: R6
External cylinder: R7

Lateral wall thickness: R7-R6

Internal height: LS - 2 * TS
External lenght: LS

Top and bottom wall thickness = TS

Distance between detector housing and external shielding: A

Cylindrical sample: Source and container

Limiting plans:

Reference plan Z0 = 0
Distance detector-source (bottom of the container) = D
Container bottom thickness = TBC

Container height = HC

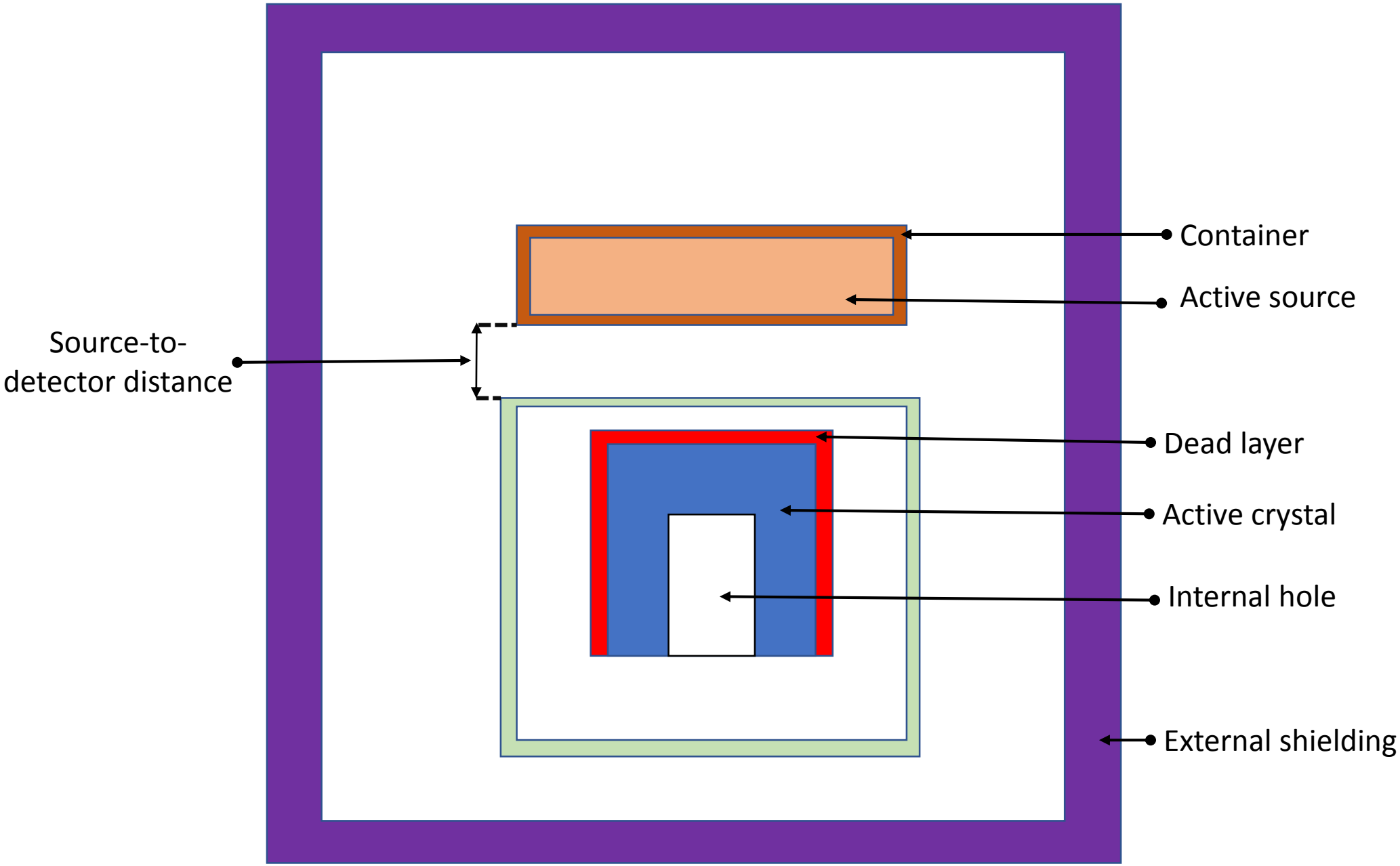
Sample (source) height = HS

Limiting cylinders:

Source (active material): R8

Container: R9

Container side thickness: TSC = R9 - R8


Container
Active source
Source-to-
detector distance
Dead layer
Active crystal
Internal hole
External shielding