REINFORCEMENT ARRANGEMENT.
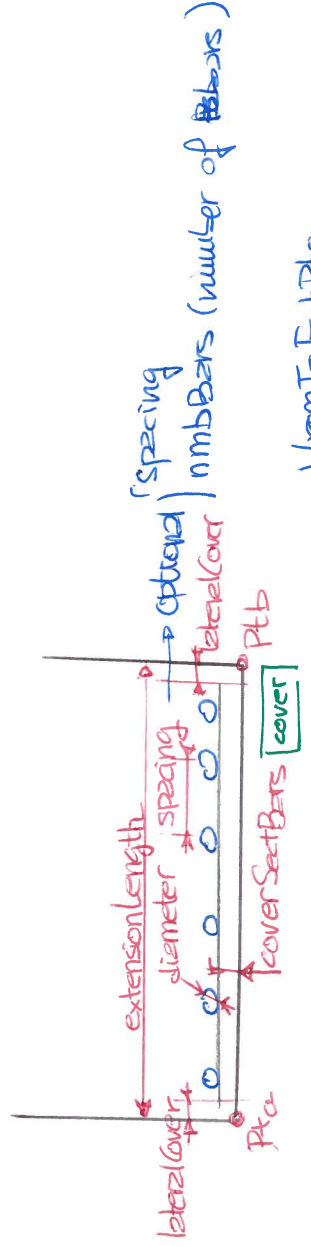
cover : minimum nominal cover of the member.

generalCov

default values

extensionLength — spacing
spacing → optional
diameter
lateralCover
coverSectBars — cover
Pta, Ptb

fromToExtPts = [Pta, Ptb] → optional {extensionLength} {fromToExtPts}

lateralCover [cover]

SectBarsSide 'l' 'r'

1stPtsConcrSect = [Pt1, Pt2, Pt3, Pt4, Pt5]

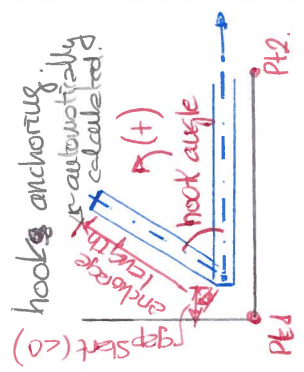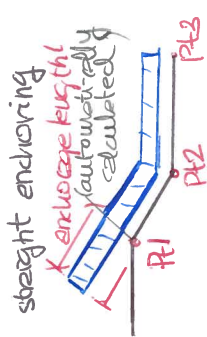lstCover = [c1, c2, c3, c4]

coverSide 'l' 'r'

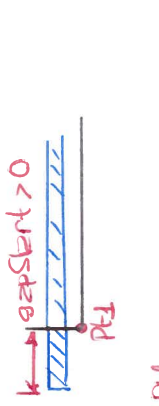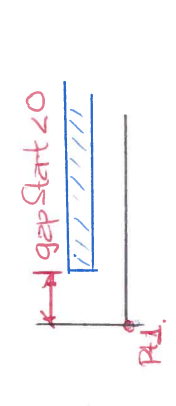gapStart (≥0), diameter, Pt1, Pt2, Pt3, Pt4, Pt5, c1, c2, c3, c4

Rebar family with variable slope
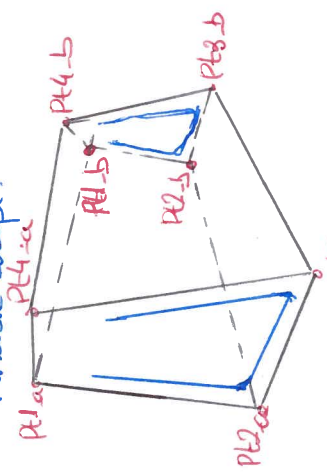
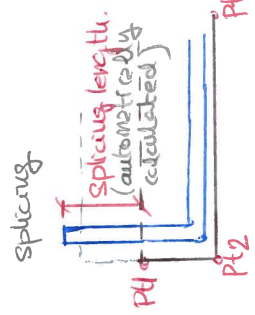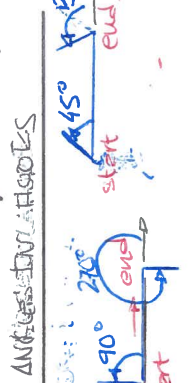1stPtsConcrSect = [Pt1.a, Pt2.a, Pt3.a, Pt4.a]
1stPtsConcrSect2 = [Pt1.b, Pt2.b, Pt3.b, Pt4.b]

ANCHORING AND SPLICING. START AND END EXTREMITIES OF THE DEBAR. Examples at starting extremity (analogous for ending extremity)

straight enchoring
gapStart <0
gapStart >0
fix Length Start

hooks anchoring
anchorage length (automatically calculated)
hook angle (+)
gapStart (<0)
gapStart (>0)

splicing
Splicing length (automatically calculated)

NOMENCLATURE:
Straight elongation anchorage: anchStart, anchEnd = 'streght' → pos { I tens, II compr }
Hook anchorage: anchStart, anchEnd = 'hook' angle → pos { I tens, II compr }, angle in sexagesimal degrees
Splicing: SplicingStart = 'splic' pos { I tens/100, II compr } % of overlapped tension bars

ANGLES IN HOOKS: 90°, 135°, 180°, 45° start, end