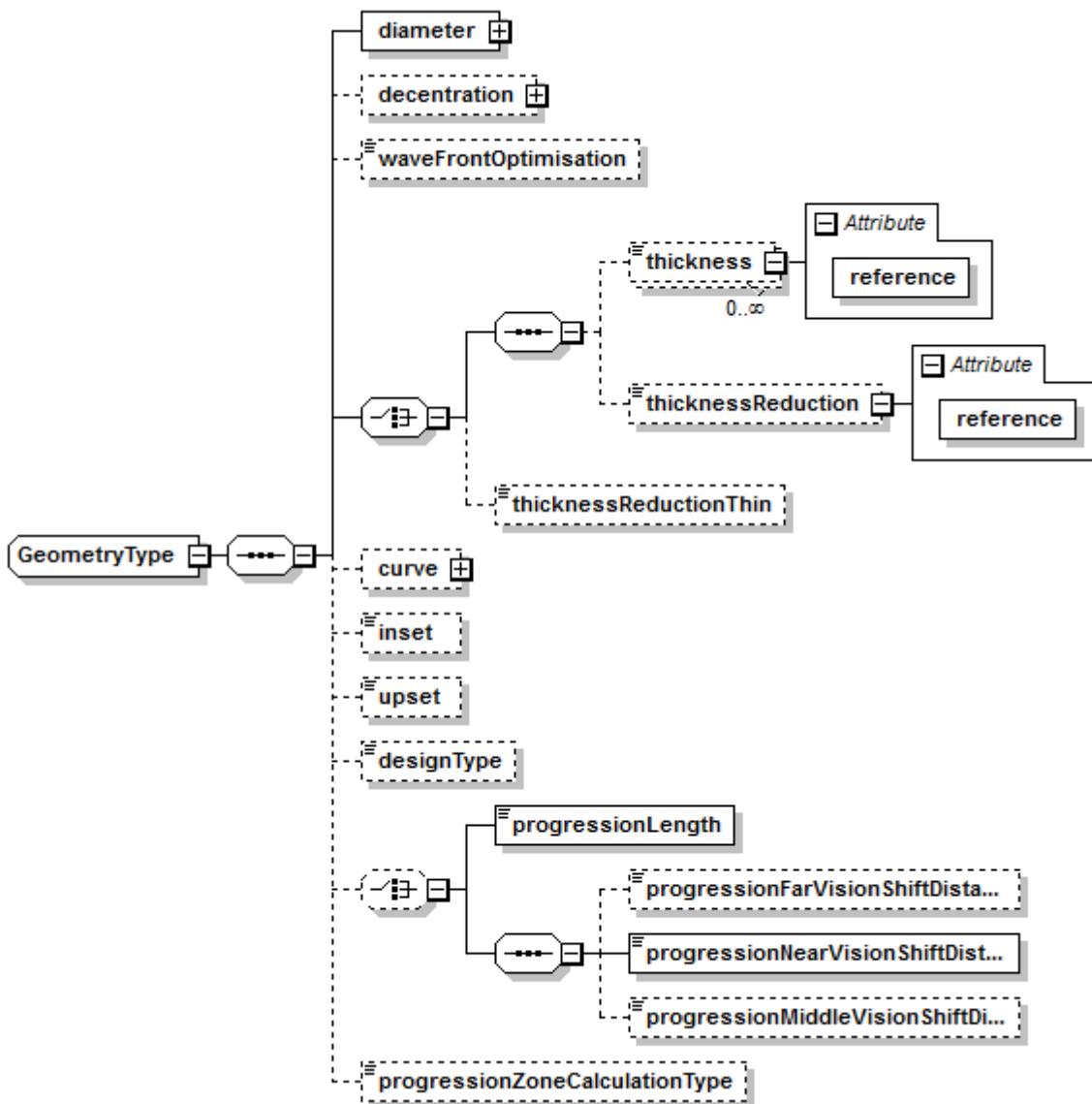


geometry (GeometryType)

b2boptic → items → item → pair → lens → geometry



diameter	
type	Diameter
occurs	1
description	dimension of the lens
decentration	
type	Decentration
occurs	0..1
description	decentration of the lens
waveFrontOptimisation	
type	boolean
occurs	0..1
default	false
description	optimize the lens with the wavefront data

thickness	
type	float
unity	mm
occurs	0..n, not together with thicknessReductionThin
description	the desired thickness of the lens at one or more points
reference (attribute of thickness)	
type	ThicknessReferences
use	required
description	the place of the thickness value
thicknessReduction	
type	boolean
occurs	0..1, not together with thicknessReductionThin
description	thickness reduction of edge and center (e.g. Essilor: Precal; Hoya: METS; Rodenstock: MDM; Zeiss: Optima)
reference (attribute of thicknessReduction)	
type	ThicknessReductionReferences
use	required
description	thickness reduction based on frame shape or raw lens
thicknessReductionThin	
type	boolean
occurs	0..1, not together with thickness or thicknessReduction
default	false
description	the lens should be as thin as possible
curve	
type	
occurs	
description	
inset	
type	
unity	
occurs	
description	
upset	
type	
unity	
occurs	
description	
designType	
type	
occurs	
description	
values	description
A	different for each lens manufacturer

values	description
B	different for each lens manufacturer
C	different for each lens manufacturer

progressionLength

type	float
unity	mm
occurs	0..1 (not together with progression(Far/Middle/Near)VisionShiftDistance)
description	for progressive lenses with variable length of progressionzone

progressionFarVisionShiftDistance

type	float
unity	mm
occurs	0..1 (not together with progressionLength; progressionNearVisionShiftDistance is required)
description	Far Vision Vertical Shift distance Bz to Bf

progressionNearVisionShiftDistance

type	float
unity	mm
occurs	0..1 (not together with progressionLength)
description	Near Vision Vertical Shift distance Bz to Bn

progressionMiddleVisionShiftDistance

type	float
unity	mm
occurs	0..1 (not together with progressionLength; progressionNearVisionShiftDistance is required)
description	Middle Vision Vertical Shift distance

progressionZoneCalculationType

type	string
occurs	0..1
description	Type of calculation of the progression zone length

```

<xs:complexType name="GeometryType">
  <xs:sequence>
    <xs:element name="diameter" type="Diameter" />
    <xs:element minOccurs="0" name="decentration" type="Decentration" />
    <xs:element minOccurs="0" default="false" name="waveFrontOptimisation"
      type="xs:boolean" />
    <xs:choice>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="thickness">
          <xs:complexType>
            <xs:simpleContent>
              <xs:extension base="xs:float">
                <xs:attribute name="reference" type="ThicknessReferences"
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              </xs:simpleContent>
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    </xs:sequence>
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```

```
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type="xs:float" />
        <xs:element name="progressionNearVisionShiftDistance"
type="xs:float" />
        <xs:element minOccurs="0"
name="progressionMiddleVisionShiftDistance" type="xs:float" />
    </xs:sequence>
</xs:choice>
<xs:element minOccurs="0" name="progressionZoneCalculationType"
type="xs:string" />
</xs:sequence>
</xs:complexType>
```

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