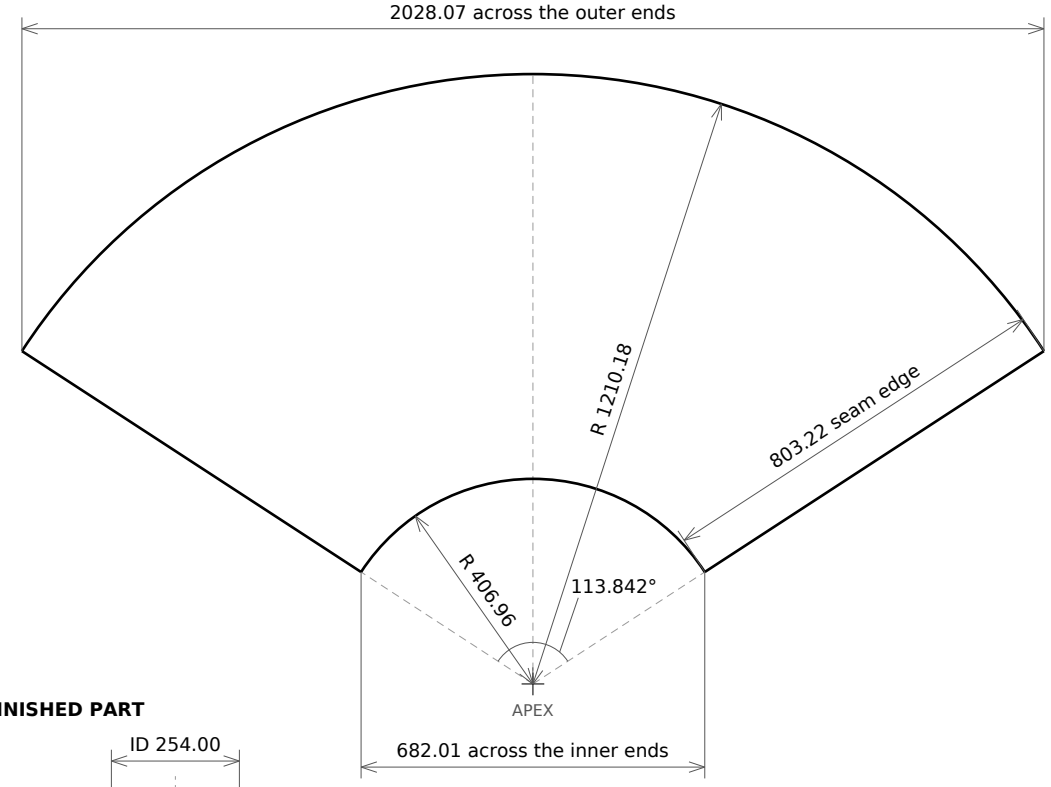
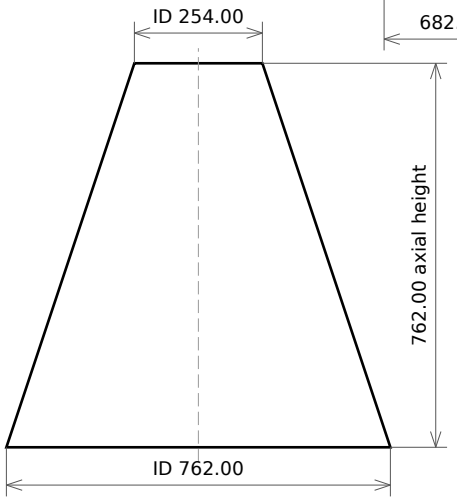
FLAT PATTERN



FINISHED PART



0 — 500 mm

FINISHED PART

Large end	762.00 ID / 768.77 OD
Small end	254.00 ID / 260.77 OD
Axial height	762.00
Slant height, mid-surface	803.22
Wall angle from the axis	18.435°
Included apex angle	36.870°
OD	At the outside corner of a square-cut edge: ID + 2 x thickness x cos(wall angle).

FLAT PATTERN

Outer radius	1210.18
Inner radius	406.96
Sector angle	113.842°
Outer arc length	2404.53
Inner arc length	808.60
Smallest rectangle round one blank, no margin	2028.07 x 988.06
Developed on	The mid-surface of the plate (K = 0.50). Check this against your shop practice.
Diameters entered	Inside diameters. The mid-surface diameters are worked out from them and the wall angle.
Seam	Butt seam. No seam or trim allowance is added: the blank is the exact developed size.

ROLLING

Direction	Roll along the arc, so the two straight edges meet at the seam.
Edges	Pre-bend the two straight edges as needed to control flats at the seam.
Machine settings	Set by your shop. No roll positions are given because no machine was specified.

NOTES

1. Check every size against the job before cutting. No tolerances are stated on this sample; they are agreed per job.
2. The flat pattern on this sheet is drawn from the cut file and checked against it.
3. This is drafting only: it does not rate the part for load or pressure.

RUTHEN SYSTEMS

SAMPLE DRAWING

Not for production

PART **Rolled cone 762-254**	JOB **SAMPLE**	CUSTOMER **Sample Customer (fictional)**
MATERIAL **Stainless 304**	THICKNESS **3.57 mm**	CUT FILE **rolled-cone-762-254-cut.dxf**
SCALE **1:15 on Letter, printed at 100 %**	DATE **2026-11-04**	UNITS **mm; blanks to cut: 1**