Urodzinowy German Pils

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **36**
- SRM **3.4**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 8.1 liter(s)
- Total mash volume 10.8 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 76 C, Time 1 min

Mash step by step

- Heat up 8.1 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 1 min at 76C
- Sparge using 9.8 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.7 kg <i>(100%)</i>	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	13 g	60 min	10 %
Boil	Tettnang	25 g	15 min	4.7 %
Boil	Tettnang	25 g	0 min	4.7 %