Polska IPA 2

- Gravity 15 BLG
- ABV 6.2 %
- IBU **54**
- SRM 4.3
- Style American IPA

Batch size

- Expected quantity of finished beer 11 liter(s)
- Trub loss 5 %
- Size with trub loss 12.7 liter(s)
- · Boil time 60 min
- Evaporation rate 20 %/h
- Boil size 17.8 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 12.8 liter(s)
- Total mash volume 16.4 liter(s)

Steps

- Temp 51 C, Time 10 min
 Temp 62 C, Time 60 min
 Temp 72 C, Time 15 min
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up 12.8 liter(s) of strike water to 55.4C
- Add grains
- Keep mash 10 min at 51C
- Keep mash 60 min at 62C
- Keep mash 15 min at 72C
- Keep mash 10 min at 76C
- Sparge using 8.7 liter(s) of 76C water or to achieve 17.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.2 kg (60.3%)	81 %	2.5
Grain	Strzegom Wiedeński	1 kg (27.4%)	79 %	10
Grain	Rice, Flaked	0.3 kg (8.2%)	70 %	2
Grain	Weyermann - Acidulated Malt	0.15 kg <i>(4.1%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	10 %
Aroma (end of boil)	Zula	30 g	3 min	9.9 %
Aroma (end of boil)	Zula	30 g	1 min	9.9 %
Whirlpool	Zula	200 g	0 min	9.9 %
Whirlpool	lunga	75 g	0 min	10 %
Dry Hop	Zula	140 g	3 day(s)	9.9 %

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Gips	2 g	Mash	
Water Agent	Kwas mlekowy	2 g	Mash	
Fining	Whirlflock	0.5 g	Boil	10 min