Zula Pale Ale

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU **12**
- SRM 4.3

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 25.7 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 15.4 liter(s)
- Total mash volume 19.8 liter(s)

Steps

- Temp 68 C, Time 30 min
 Temp 73 C, Time 30 min
 Temp 79 C, Time 1 min

Mash step by step

- Heat up 15.4 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 30 min at 68C
- Keep mash 30 min at 73C
- Keep mash 1 min at 79C
- Sparge using 14.7 liter(s) of 76C water or to achieve 25.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (90.9%)	81 %	4
Grain	Karmelowy Jasny 30EBC	0.4 kg <i>(9.1%)</i>	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zula	25 g	20 min	7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis