pale ale

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **23**
- SRM 4.6

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 5 min at 78C
- Sparge using 15.5 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg <i>(90.9%)</i>	79 %	6
Grain	Oats, Flaked	0.5 kg (9.1%)	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	7.3 %
Boil	Cascade	50 g	0 min	7.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis