Polskie Stratosferyczne

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **24**
- SRM 6.4

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 90 min
- · Evaporation rate 15 %/h
- Boil size 35.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp 44 C, Time 30 min Temp 62 C, Time 45 min Temp 72 C, Time 20 min

- Temp 78 C, Time 10 min

Mash step by step

- Heat up 18 liter(s) of strike water to 48C
- Add grains
- Keep mash 30 min at 44C
- Keep mash 45 min at 62C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 23.3 liter(s) of 76C water or to achieve 35.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.8 kg <i>(46.7%)</i>	80 %	5
Grain	Pszeniczny	1.2 kg <i>(20%)</i>	85 %	4
Grain	Abbey Malt Weyermann	1 kg <i>(16.7%)</i>	75 %	45
Grain	Strzegom Pilzneński	1 kg (16.7%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %
Boil	Citra	10 g	20 min	12 %
Aroma (end of boil)	Simcoe	30 g	0 min	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
S-05	Ale	Dry	20 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Fining	whirlflock	0.5 g	Boil	10 min