Bitter

- Gravity 10 BLG
- ABV 4 %
- IBU **31**
- SRM **6.5**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.4 liter(s)
- Total mash volume 19.2 liter(s)

Steps

• Temp 68 C, Time 75 min

Mash step by step

- Heat up 14.4 liter(s) of strike water to 76C
- · Add grains
- Keep mash 75 min at 68C
- Sparge using 20.8 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Słód Pale Ale strzegom	4 kg (83.3%)	79 %	6
Grain	Słód Monachijski Typ II Viking Malt 12-18 EBC	0.4 kg (8.3%)	79 %	14
Grain	Słód Caramunich Typ III Weyerman 140-160	0.2 kg (4.2%)	73 %	150
Grain	Biscuit Malt	0.2 kg (4.2%)	79 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	20 g	60 min	4.5 %
Boil	East Kent Goldings	20 g	60 min	5.1 %
Boil	Fuggles	20 g	20 min	4.5 %
Boil	East Kent Goldings	20 g	20 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Other	Mech Irlandzki	5 g	Boil	15 min
Other	Gips piwowarski	10 g	Mash	90 min