### **Bitter**

- Gravity 7.6 BLG
- ABV 2.9 %
- IBU **24**
- SRM **6.1**
- Style Standard/Ordinary Bitter

#### **Batch size**

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

# **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 12.3 liter(s)
- Total mash volume 15.8 liter(s)

#### **Steps**

• Temp 65 C, Time 60 min

## Mash step by step

- Heat up 12.3 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 60 min at 65C
- Sparge using 20.2 liter(s) of 76C water or to achieve 29 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	ЕВС
Grain	Viking Pale Ale malt	3.2 kg (91.4%)	79 %	5
Grain	Strzegom Karmel 150	0.3 kg (8.6%)	75 %	150

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	20 g	60 min	6 %
Boil	Fuggles	20 g	25 min	5 %
Boil	Fuggles	20 g	5 min	5 %