- Gravity 11.4 BLG
- ABV ---
- IBU **29**
- SRM 4.1
- Style American Pale Ale

## **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.5 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.9 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 **66 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp 78 C, Time 10 min

## Mash step by step

- Heat up 16.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 40 min at 66C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 20.9 liter(s) of 76C water or to achieve 31.9 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilsner (2 Row) Ger	5 kg <i>(90.9%)</i>	81 %	4
Grain	Briess - Wheat Malt, White	0.5 kg <i>(9.1%)</i>	85 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	11 %
Boil	lunga	15 g	30 min	11 %
Boil	lunga	25 g	5 min	11 %

## **Yeasts**

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