## Rowerowe 3/21

- Gravity 8 BLG
- ABV 3.1 %
- IBU **13**
- SRM 4.5
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 17 liter(s)
- Trub loss 5 %
- Size with trub loss 18.4 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 22 liter(s)

## **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 5 liter(s) / kg Mash size 17.3 liter(s)
- Total mash volume 20.7 liter(s)

#### **Steps**

• Temp 72 C, Time 60 min

## Mash step by step

- Heat up 17.3 liter(s) of strike water to 77.2C
- · Add grains
- Keep mash 60 min at 72C
- Sparge using 8.2 liter(s) of 76C water or to achieve 22 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	2.5 kg <i>(72.5%)</i>	80 %	7
Grain	Carabelge	0.15 kg <i>(4.3%)</i>	80 %	30
Grain	Briess - Rye Malt	0.5 kg <i>(14.5%)</i>	80 %	7
Grain	Płatki owsiane	0.3 kg (8.7%)	85 %	3

## **Hops**

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	15 g	30 min	7.2 %
Boil	Cascade	25 g	1 min	7.2 %

# **Yeasts**

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