## **Brak nazwy**

- Gravity 16.1 BLG
- ABV **6.8** %
- IBU **72**
- SRM **36.2**

### **Batch size**

- Expected quantity of finished beer 11 liter(s)
- Trub loss 5 %
- Size with trub loss 12.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 14.5 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 11.2 liter(s)
- Total mash volume 14.9 liter(s)

### Steps

• Temp 65 C, Time 60 min

# Mash step by step

- Heat up 11.2 liter(s) of strike water to 72.5C
- · Add grains
- Keep mash 60 min at 65C
- Sparge using 7 liter(s) of 76C water or to achieve 14.5 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	1.5 kg <i>(40.3%)</i>	81 %	5
Grain	Weyermann - Carafa II	0.11 kg (3%)	70 %	837
Grain	Weyermann - Pale Ale Malt	1.5 kg <i>(40.3%)</i>	85 %	7
Grain	Weyermann - Carafa III	0.11 kg (3%)	70 %	1024
Grain	black bezmaltz	0.1 kg (2.7%)	55 %	1200
Grain	Słód Kawowy 500 EBC	0.2 kg <i>(5.4%)</i>	75.5 %	420
Grain	Amber Malt	0.2 kg <i>(5.4%)</i>	75 %	43

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Apollo	20 g	60 min	17 %
Boil	Mosaic	5 g	60 min	11.8 %
Boil	Mosaic	5 g	10 min	11.8 %
Boil	Mosaic	5 g	5 min	11.8 %
Dry Hop	Mosaic	35 g	7 day(s)	11.8 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's libery balle ale	Ale	Slant	200 ml	Dom