Komunijne

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **22**
- SRM **5.2**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 32 liter(s)
- Trub loss 5 %
- Size with trub loss 33.6 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 42.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21.8 liter(s)
- Total mash volume 29 liter(s)

Steps

- Temp 63 C, Time 60 min
 Temp 72 C, Time 10 min

Mash step by step

- Heat up 21.8 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 60 min at 63C
- Keep mash 10 min at 72C
- Sparge using 27.8 liter(s) of 76C water or to achieve 42.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	5 kg <i>(69%)</i>	80 %	7
Grain	Karmelowy Jasny 30EBC	0.25 kg <i>(3.4%)</i>	75 %	30
Grain	Pilzenśki	2 kg (27.6%)	80 %	10

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	30 g	50 min	6 %
Boil	Cascade	15 g	25 min	6 %
Boil	Cascade	15 g	5 min	6 %
Boil	Centennial	15 g	10 min	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Buldog universal ale	Ale	Slant	500 ml	Bulldog

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Gips	2 g	Mash	60 min

Fining	Karagen	2.5 g	Boil	10 min
Other	pożywka	2 g	Boil	5 min