- Gravity 14.3 BLG
- ABV **5.9** %
- IBU **40**
- SRM 10
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.1 liter(s)
- Total mash volume 22.8 liter(s)

Steps

- Temp **62 C**, Time **70 min** Temp **72 C**, Time **10 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 17.1 liter(s) of strike water to 69C
- Add grains
- Keep mash 70 min at 62C
- Keep mash 10 min at 72C
- Keep mash 5 min at 78C
- Sparge using 13.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg <i>(43.9%)</i>	80 %	5
Grain	Viking Pilsner malt	2.5 kg <i>(43.9%)</i>	82 %	4
Grain	Strzegom Karmel 30	0.2 kg <i>(3.5%)</i>	75 %	30
Grain	Caraaroma	0.2 kg <i>(3.5%)</i>	78 %	400
Grain	Płatki owsiane	0.3 kg (5.3%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Green Bullet	15 g	60 min	11 %
Boil	Simcoe	10 g	40 min	13.2 %
Boil	Marynka	9 g	60 min	10 %
Dry Hop	Simcoe	15 g	7 day(s)	13.2 %
Aroma (end of boil)	East Kent Goldings	10 g	10 min	5.1 %
Dry Hop	Chinook	15 g	7 day(s)	13 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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Cofbrow T EQ	۸۱۵	Dry	11 5 ~	Formontic
Satbrew 1-58	Ale		11.5 g	rennenus