Family brew

- Gravity 14 BLG
- ABV 5.8 %
- IBU **31**
- SRM **3.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 5 %
- Size with trub loss 15.8 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

Steps

- Temp 35 C, Time 15 min
 Temp 68 C, Time 60 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 12 liter(s) of strike water to 37.5C
- Add grains
- Keep mash 15 min at 35C
- Keep mash 60 min at 68C
- Keep mash 10 min at 78C
- Sparge using 11 liter(s) of 76C water or to achieve 19 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.5 kg <i>(87.5%)</i>	85 %	4
Grain	Płatki owsiane	0.5 kg <i>(12.5%)</i>	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	20 min	12 %
Aroma (end of boil)	Citra	10 g	5 min	12 %
Aroma (end of boil)	Amarillo	30 g	5 min	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis