AAA

- Gravity 14.3 BLG
- ABV ----
- IBU **31**
- SRM **25.3**
- Style American Amber Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp **55 C**, Time **10 min** Temp **62 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 18 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 40 min at 62C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 14.4 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	3 kg <i>(50%)</i>	74.84 %	13
Grain	Pilzneński	2 kg <i>(33.3%)</i>	75.29 %	7
Grain	Karmelowy 150	0.5 kg <i>(8.3%)</i>	73.32 %	479
Grain	Oats, Flaked	0.5 kg (8.3%)	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	10.5 %
Dry Hop	Citra	40 g	7 day(s)	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Gozdawa Pure Ale Yeast 7	Ale	Dry	11 g	