- Gravity 8 BLG
- ABV 3.1 %
- IBU **34**
- SRM **3.7**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 5 %
- Size with trub loss 15.9 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19.1 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 7.5 liter(s)
- Total mash volume 10 liter(s)

Steps

• Temp 72 C, Time 60 min

Mash step by step

- Heat up 7.5 liter(s) of strike water to 80.7C
- Add grains
- Keep mash 60 min at 72C
- Sparge using 14.1 liter(s) of 76C water or to achieve 19.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	1.5 kg <i>(60%)</i>	79 %	6
Grain	Żytni	1 kg (40%)	85 %	8

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	8 g	60 min	13.5 %
Boil	Galaxy	10 g	20 min	15 %
Aroma (end of boil)	Galaxy	10 g	0 min	15 %
Dry Hop	Galaxy	20 g	7 day(s)	15 %

Yeasts

Name	Туре	Form	Amount	Laboratory
sawbrew s -33	Ale	Dry	7 g	