

Lato

- Gravity **10.5 BLG**
- ABV ---
- IBU **27**
- SRM **3.6**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **70 C**, Time **30 min**

Mash step by step

- Heat up **19.3 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **30 min** at **70C**
- Sparge using **17.9 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (72.7%)	81 %	4
Grain	Pszeniczny	1 kg (18.2%)	85 %	4
Grain	Strzegom Wiedeński	0.5 kg (9.1%)	79 %	10

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	20 g	65 min	7 %
Whirlpool	Rakau (NZ)	50 g	10 min	9.5 %
Whirlpool	Mandarina Bavaria	30 g	10 min	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM54 Gorączka kalifornijska	Ale	Liquid	250 ml	Fermentum Mobile