

American Pale Ale

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **30**
- SRM **3.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **33 liter(s)**
- Trub loss **5 %**
- Size with trub loss **36.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **43.6 liter(s)**

Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **30 liter(s)**

Steps

- Temp **67 C**, Time **80 min**
- Temp **72 C**, Time **10 min**

Mash step by step

- Heat up **22.5 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **80 min** at **67C**
- Keep mash **10 min** at **72C**
- Sparge using **28.6 liter(s)** of **76C** water or to achieve **43.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	6.5 kg (86.7%)	80 %	4
Grain	Płatki pszeniczne	0.5 kg (6.7%)	85 %	3
Grain	Płatki owsiane	0.5 kg (6.7%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	50 g	20 min	15.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	100 ml	Fermentum Mobile