

# American Cascade Pale Ale

- Gravity **11.4 BLG**
- ABV ---
- IBU **50**
- SRM **14.6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **0 %**
- Size with trub loss **25 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **30.7 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.79 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20.4 liter(s)**

## Steps

- Temp **68 C**, Time **70 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **76.6C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **21.1 liter(s)** of **76C** water or to achieve **30.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2.5 kg (46.5%)	79 %	6
Grain	Strzegom Wiedeński	1.25 kg (23.2%)	79 %	10
Grain	Strzegom Monachijski typ I	1.25 kg (23.2%)	79 %	16
Grain	Caramel/Crystal Malt - 120L	0.38 kg (7.1%)	72 %	236

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	50 g	60 min	6 %
Boil	Cascade	12 g	30 min	6 %
Boil	Cascade	12 g	15 min	6 %
Boil	Cascade	30 g	10 min	6 %
Boil	Cascade	12 g	5 min	6 %
Boil	Cascade	12 g	1 min	6 %
Dry Hop	Cascade	50 g	7 day(s)	6 %

## Yeasts

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