

# American Cascade Pale Ale

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **50**
- SRM **8.2**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **5 liter(s) / kg**
- Mash size **21.5 liter(s)**
- Total mash volume **25.8 liter(s)**

## Steps

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

## Mash step by step

- Heat up **21.5 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **70 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **8.5 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (46.5%)	80 %	5
Grain	Strzegom Wiedeński	1 kg (23.3%)	79 %	10
Grain	Monachijski	1 kg (23.3%)	80 %	16
Grain	Strzegom Karmel 150	0.3 kg (7%)	75 %	150

## Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Cascade	40 g	60 min	6 %
First Wort	Cascade	10 g	30 min	6 %
First Wort	Cascade	10 g	15 min	6 %
First Wort	Cascade	25 g	10 min	6 %
First Wort	Cascade	10 g	5 min	6 %
First Wort	Cascade	10 g	1 min	6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	Danstar