

## Californication v.7

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- Gravity **12.1 BLG**
- ABV ---
- IBU **37**
- SRM **5.3**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **45 liter(s)**
- Trub loss **10 %**
- Size with trub loss **49.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **54.5 liter(s)**

### Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **2.7 liter(s) / kg**
- Mash size **23.2 liter(s)**
- Total mash volume **31.8 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**

### Mash step by step

- Heat up **23.2 liter(s)** of strike water to **74.5C**
- Add grains
- Keep mash **60 min** at **66C**
- Sparge using **39.9 liter(s)** of **76C** water or to achieve **54.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	4 kg (46.5%)	80 %	7
Grain	Pilznieński	4 kg (46.5%)	81 %	4
Grain	Strzegom Karmel 30	0.6 kg (7%)	75 %	30

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	35 g	60 min	13 %
Aroma (end of boil)	Citra	15 g	15 min	12 %
Aroma (end of boil)	Simcoe	15 g	15 min	13 %
Aroma (end of boil)	Centennial	15 g	5 min	10.5 %
Aroma (end of boil)	Citra	15 g	5 min	12 %
Aroma (end of boil)	Citra	20 g	0 min	12 %
Aroma (end of boil)	Simcoe	25 g	0 min	13 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis