

## Pacific Pale Ale 12°

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- Gravity **11.9 BLG**
- ABV ---
- IBU **31**
- SRM **8.4**
- 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 **65 min**
- Evaporation rate **10 %/h**
- Boil size **25.5 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.3 liter(s)**
- Total mash volume **16.4 liter(s)**

### Steps

- Temp **73 C**, Time **0 min**
- Temp **67 C**, Time **70 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **12.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **0 min** at **73C**
- Keep mash **10 min** at **76C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **25.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3.8 kg (92.7%)	85 %	6
Grain	Karmelowy Jasny Litovel	0.3 kg (7.3%)	85 %	95

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Waimea	10 g	60 min	17 %
Boil	Rakau (NZ)	20 g	10 min	9.5 %
Boil	Rakau (NZ)	30 g	1 min	9.5 %

### Yeasts

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