

# IIPPAA klon Double West Coast

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **73**
- SRM **4**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

## Steps

- Temp **65 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **15.3 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **12.6 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	5 kg (90.9%)	82 %	4
Sugar	glucose	0.4 kg (7.3%)	100 %	---
Grain	Weyermann - Acidulated Malt	0.1 kg (1.8%)	80 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	60 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	30 g	30 min	15.5 %
Dry Hop	Mosaic MX	75 g	2 day(s)	12.3 %
Dry Hop	Simcoe	60 g	2 day(s)	12.9 %
Dry Hop	Citra	50 g	2 day(s)	12.9 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Liquid	100 ml	Fermentis

## Notes

- Woda RO:kran 1:1
  - zacieranie 18 L - gips 3 gr
  - wysładzanie 9 L - kwas mlekowy 2,5ml

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