

## west coast 4.0

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **39**
- SRM **4.9**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.7 liter(s)**

### Mash information

- Mash efficiency **86 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.7 liter(s)**
- Total mash volume **23.6 liter(s)**

### Steps

- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **17.7 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

### Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Pilzneński          | 5.5 kg (90.2%) | 81 %  | 4   |
| Grain | Pszeniczny          | 0.2 kg (3.3%)  | 85 %  | 4   |
| Sugar | cukier              | 0.2 kg (3.3%)  | --- % | --- |
| Grain | Simpsons - Caramalt | 0.2 kg (3.3%)  | 76 %  | 69  |

### Hops

| Use for | Name      | Amount | Time     | Alpha acid |
|---------|-----------|--------|----------|------------|
| Boil    | Tradition | 20 g   | 40 min   | 5.5 %      |
| Boil    | Citra     | 30 g   | 15 min   | 12 %       |
| Boil    | izabella  | 50 g   | 10 min   | 5 %        |
| Boil    | oktawia   | 50 g   | 5 min    | 8.5 %      |
| Dry Hop | Puławski  | 50 g   | 4 day(s) | 8.9 %      |
| Dry Hop | Oktawia   | 50 g   | 4 day(s) | 7.1 %      |

### Yeasts

| Name                        | Type | Form  | Amount | Laboratory       |
|-----------------------------|------|-------|--------|------------------|
| FM54 Gorączka kalifornijska | Ale  | Slant | 150 ml | Fermentum Mobile |