

# Sunny West

- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **68**
- SRM **4.7**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

## Mash information

- Mash efficiency **73 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.4 liter(s)**
- Total mash volume **19.2 liter(s)**

## Steps

- Temp **51 C**, Time **5 min**
- Temp **72 C**, Time **30 min**

## Mash step by step

- Heat up **14.4 liter(s)** of strike water to **56.2C**
- Add grains
- Keep mash **5 min** at **51C**
- Keep mash **30 min** at **72C**
- Sparge using **9.4 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński  | 2.8 kg (58.3%) | 80 %  | 4   |
| Grain | Żytmi                | 0.5 kg (10.4%) | 85 %  | 8   |
| Grain | Viking Pale Ale malt | 1 kg (20.8%)   | 80 %  | 5   |
| Grain | Pszeniczny           | 0.5 kg (10.4%) | 85 %  | 4   |

## Hops

| Use for             | Name   | Amount | Time     | Alpha acid |
|---------------------|--------|--------|----------|------------|
| Boil                | Mosaic | 20 g   | 40 min   | 10 %       |
| Aroma (end of boil) | Citra  | 30 g   | 15 min   | 12 %       |
| Aroma (end of boil) | Mosaic | 35 g   | 15 min   | 10 %       |
| Dry Hop             | Citra  | 20 g   | 5 day(s) | 12 %       |
| Dry Hop             | Mosaic | 45 g   | 5 day(s) | 10 %       |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| liberty bell | Ale  | Dry  | 11 g   | Mangrove   |

## Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |                  |     |         |           |
|--------|------------------|-----|---------|-----------|
| Other  | Dodatek do piany | 5 g | Primary | 10 day(s) |
| Fining | Mech irlandzki   | 5 g | Boil    | 15 min    |