

## West Coast Rye APA

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- Gravity **11.7 BLG**
- ABV ---
- IBU **54**
- SRM **4.5**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **30.2 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **20.3 liter(s)**

### Steps

- Temp **66 C**, Time **50 min**
- Temp **75 C**, Time **10 min**

### Mash step by step

- Heat up **15.8 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **10 min** at **75C**
- Sparge using **18.9 liter(s)** of **76C** water or to achieve **30.2 liter(s)** of wort

### Fermentables

| Type  | Name              | Amount         | Yield | EBC |
|-------|-------------------|----------------|-------|-----|
| Grain | Pilzneński        | 2 kg (44.4%)   | 81 %  | 4   |
| Grain | Pale Ale Strzegom | 2 kg (44.4%)   | 80 %  | 6   |
| Grain | Żytni             | 0.5 kg (11.1%) | 85 %  | 8   |

### Hops

| Use for | Name    | Amount | Time     | Alpha acid |
|---------|---------|--------|----------|------------|
| Boil    | Chinook | 20 g   | 60 min   | 11.7 %     |
| Boil    | lunga   | 20 g   | 60 min   | 11 %       |
| Boil    | Chinook | 10 g   | 10 min   | 11.7 %     |
| Dry Hop | Mosaic  | 40 g   | 3 day(s) | 10 %       |
| Dry Hop | Galaxy  | 60 g   | 3 day(s) | 15 %       |

### Yeasts

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

### Extras

| Type        | Name            | Amount | Use for | Time   |
|-------------|-----------------|--------|---------|--------|
| Water Agent | Gips piwowarski | 10 g   | Mash    | 60 min |

|             |                |     |      |        |
|-------------|----------------|-----|------|--------|
| Water Agent | Chlorek wapnia | 5 g | Mash | 60 min |
|-------------|----------------|-----|------|--------|