

## No. 5

- Gravity **19.2 BLG**
- ABV ---
- IBU **53**
- SRM **13.9**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

### Steps

- Temp **70 C**, Time **60 min**
- Temp **75 C**, Time **20 min**

### Mash step by step

- Heat up **21 liter(s)** of strike water to **78.3C**
- Add grains
- Keep mash **60 min** at **70C**
- Keep mash **20 min** at **75C**
- Sparge using **11.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

| Type  | Name                      | Amount        | Yield | EBC |
|-------|---------------------------|---------------|-------|-----|
| Grain | Pilznieński               | 5 kg (71.4%)  | 80 %  | 4   |
| Grain | Pszeniczny Strzegom       | 0.5 kg (7.1%) | 80 %  | 4   |
| Grain | Caraamber Weyermann       | 0.5 kg (7.1%) | 80 %  | 60  |
| Grain | Słód Bursztynowy Strzegom | 1 kg (14.3%)  | 80 %  | 60  |

### Hops

| Use for | Name     | Amount | Time     | Alpha acid |
|---------|----------|--------|----------|------------|
| Boil    | Dr Rudi  | 20 g   | 40 min   | 12.8 %     |
| Boil    | Marynka  | 10 g   | 40 min   | 9.4 %      |
| Boil    | Sybilla  | 20 g   | 40 min   | 3.5 %      |
| Boil    | Dr Rudi  | 20 g   | 20 min   | 12.8 %     |
| Boil    | Sybilla  | 15 g   | 20 min   | 3.5 %      |
| Boil    | Sybilla  | 15 g   | 10 min   | 3.5 %      |
| Boil    | Lubelski | 15 g   | 5 min    | 5 %        |
| Dry Hop | Dr Rudi  | 10 g   | 7 day(s) | 3.5 %      |

### Yeasts

| <b>Name</b> | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|-------------|-------------|-------------|---------------|-------------------|
| Safale S-05 | Ale         | Dry         | 11.5 g        | Safale            |