

## Session IPA

---

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **40**
- SRM **4.1**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **26.7 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **22.5 liter(s)**

### Steps

- Temp **63 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **18 liter(s)** of strike water to **68.4C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **10 min** at **78C**
- Sparge using **13.2 liter(s)** of **76C** water or to achieve **26.7 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale    | 4 kg (88.9%)   | 79 %  | 6   |
| Grain | Weyermann - Carapils | 0.5 kg (11.1%) | 78 %  | 4   |

### Hops

| Use for             | Name     | Amount | Time     | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil                | Simcoe   | 10 g   | 60 min   | 13.2 %     |
| Boil                | Amarillo | 10 g   | 60 min   | 9.5 %      |
| Boil                | Simcoe   | 15 g   | 10 min   | 13.2 %     |
| Boil                | Amarillo | 15 g   | 10 min   | 9.5 %      |
| Aroma (end of boil) | Simcoe   | 10 g   | 1 min    | 13.2 %     |
| Aroma (end of boil) | Amarillo | 10 g   | 1 min    | 9.5 %      |
| Whirlpool           | Simcoe   | 15 g   | 20 min   | 13.2 %     |
| Whirlpool           | Amarillo | 15 g   | 20 min   | 9.5 %      |
| Dry Hop             | Simcoe   | 100 g  | 6 day(s) | 13.2 %     |

### Yeasts

| Name  | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| US-05 | Ale  | Dry  | 11.5 g | fermentis  |

## Extras

| Type   | Name           | Amount | Use for | Time   |
|--------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 10 g   | Boil    | 10 min |