

## Session ipa

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **49**
- SRM **4.4**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **32 liter(s)**
- Trub loss **5 %**
- Size with trub loss **33.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **40.5 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **24.8 liter(s)**
- Total mash volume **31 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **0 min**

### Mash step by step

- Heat up **24.8 liter(s)** of strike water to **71.8C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **0 min** at **76C**
- Sparge using **21.9 liter(s)** of **76C** water or to achieve **40.5 liter(s)** of wort

### Fermentables

| Type    | Name                       | Amount        | Yield | EBC |
|---------|----------------------------|---------------|-------|-----|
| Grain   | Strzegom Pale Ale          | 5 kg (69.4%)  | 79 %  | 6   |
| Grain   | Strzegom Wiedeński         | 1 kg (13.9%)  | 79 %  | 10  |
| Adjunct | Płatki owsiane             | 0.5 kg (6.9%) | 85 %  | 3   |
| Grain   | Strzegom Monachijski typ I | 0.2 kg (2.8%) | 79 %  | 16  |
| Adjunct | Płatki jęczmienne          | 0.5 kg (6.9%) | 75 %  | 4   |

### Hops

| Use for             | Name                   | Amount | Time     | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil                | Columbus/Tomahawk/Zeus | 15 g   | 60 min   | 15.5 %     |
| Boil                | Magnat                 | 30 g   | 60 min   | 11.2 %     |
| Aroma (end of boil) | Barbe Rouge            | 50 g   | 0 min    | 8.8 %      |
| Whirlpool           | Barbe Rouge            | 50 g   | 20 min   | 8.8 %      |
| Dry Hop             | Citra                  | 200 g  | 4 day(s) | 12 %       |

### Yeasts

| Name        | Type | Form  | Amount | Laboratory |
|-------------|------|-------|--------|------------|
| Verdant ipa | Ale  | Slant | 200 ml | ---        |