

## WITBIER III 13 Blg # 32

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **38**
- SRM **3.8**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **8.2 liter(s)**
- Total mash volume **10.6 liter(s)**

### Steps

- Temp **65 C**, Time **60 min**

### Mash step by step

- Heat up **8.2 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **65C**
- Sparge using **6.9 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

### Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński  | 1.1 kg (46.8%) | 80 %  | 4   |
| Grain | Pszeniczny           | 0.5 kg (21.3%) | 85 %  | 4   |
| Grain | Abbey Malt Weyermann | 0.05 kg (2.1%) | 75 %  | 45  |
| Grain | Płatki pszeniczne    | 0.5 kg (21.3%) | 85 %  | 3   |
| Grain | Płatki owsiane       | 0.2 kg (8.5%)  | 85 %  | 3   |

### Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Oktawia | 15 g   | 60 min | 9.8 %      |
| Boil    | Oktawia | 10 g   | 10 min | 9.8 %      |

### Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safbrew S-33 | Ale  | Dry  | 11.5 g | ---        |

### Extras

| Type  | Name                       | Amount | Use for | Time   |
|-------|----------------------------|--------|---------|--------|
| Spice | curacao                    | 20 g   | Boil    | 10 min |
| Spice | skórka gorzkiej pomarańczy | 20 g   | Boil    | 10 min |

|       |          |      |      |        |
|-------|----------|------|------|--------|
| Spice | kolendra | 10 g | Boil | 10 min |
|-------|----------|------|------|--------|