

# Sezon narciarski

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **32**
- SRM **4.3**
- Style **Saison**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **90 min**
- Evaporation rate **12 %/h**
- Boil size **13.6 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **4.5 liter(s) / kg**
- Mash size **13 liter(s)**
- Total mash volume **15.9 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

## Mash step by step

- Heat up **13 liter(s)** of strike water to **72.2C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **72C**
- Sparge using **3.5 liter(s)** of **76C** water or to achieve **13.6 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount         | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Pilzneński           | 2.5 kg (86.2%) | 81 %  | 4   |
| Grain | Weyermann - Carapils | 0.15 kg (5.2%) | 78 %  | 4   |
| Grain | Strzegom Wiedeński   | 0.25 kg (8.6%) | 79 %  | 10  |

## Hops

| Use for             | Name                  | Amount | Time   | Alpha acid |
|---------------------|-----------------------|--------|--------|------------|
| Boil                | Magnum                | 10 g   | 60 min | 13.5 %     |
| Boil                | Saaz (Czech Republic) | 10 g   | 10 min | 4.5 %      |
| Aroma (end of boil) | Saaz (Czech Republic) | 7.5 g  | 1 min  | 4.5 %      |

## Yeasts

| Name                              | Type | Form | Amount | Laboratory      |
|-----------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M29 French Saison | Ale  | Dry  | 11 g   | Mangrove Jack's |

## Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|       |                   |      |      |       |
|-------|-------------------|------|------|-------|
| Spice | Curacao           | 10 g | Boil | 5 min |
| Spice | Kolendra indyjska | 5 g  | Boil | 5 min |